

► *Guide for RF Microwave Coaxial Switches*



COAXIAL SWITCH
RF & Microwave



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Miniaturized Switch Matrix

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SWITCH DEFINITIONS AND TERMS

■ NC:

In the power off or no control signal mode, the switch is connected to the single pole by default.

■ NO:

In the power off or no control signal mode, the switch is disconnected by default.

■ SPDT:

Single pole, two position type, only one position is connected to the pole and the unselected position is in an open-circuit state or a terminated state.

■ SPnT:

Single pole, Multi-position type, only one position is connected to the pole and the unselected position is in an open-circuit state or a terminated state.

■ DPDT:

Four pole, non position, two-way switching can be realized when working.

■ Latching:

In the Latching mode, the switch will remain in any switched position when it is being switched normally until the next effective control signal is triggered, which is suitable for maintaining a condition without power supply for a long time, thereby reducing the heat generated by the device itself.

■ Failsafe/Normally open:

In the failsafe mode, which is standard on db switches, the switch will return to the open position when voltage is removed or loss control.

■ Normally open mode:

The basic switch mode, in the factory or reset mode, the RF end is fully reflected.

■ Terminated:

Position disconnected to the pole automatically match standard terminated.

■ Indicators:

It is an internal SpnT switch that corresponds to each position and the indicator is triggered by the RF touch point it represents, so as to feedback the status of the switch, which is used to confirm that the system is working properly and display the current position of the switch.

■ TTL control circuit:

Users can apply a set of rated power voltage across a pair of designated power terminals, this power can accommodate TTL voltage controlled switches.

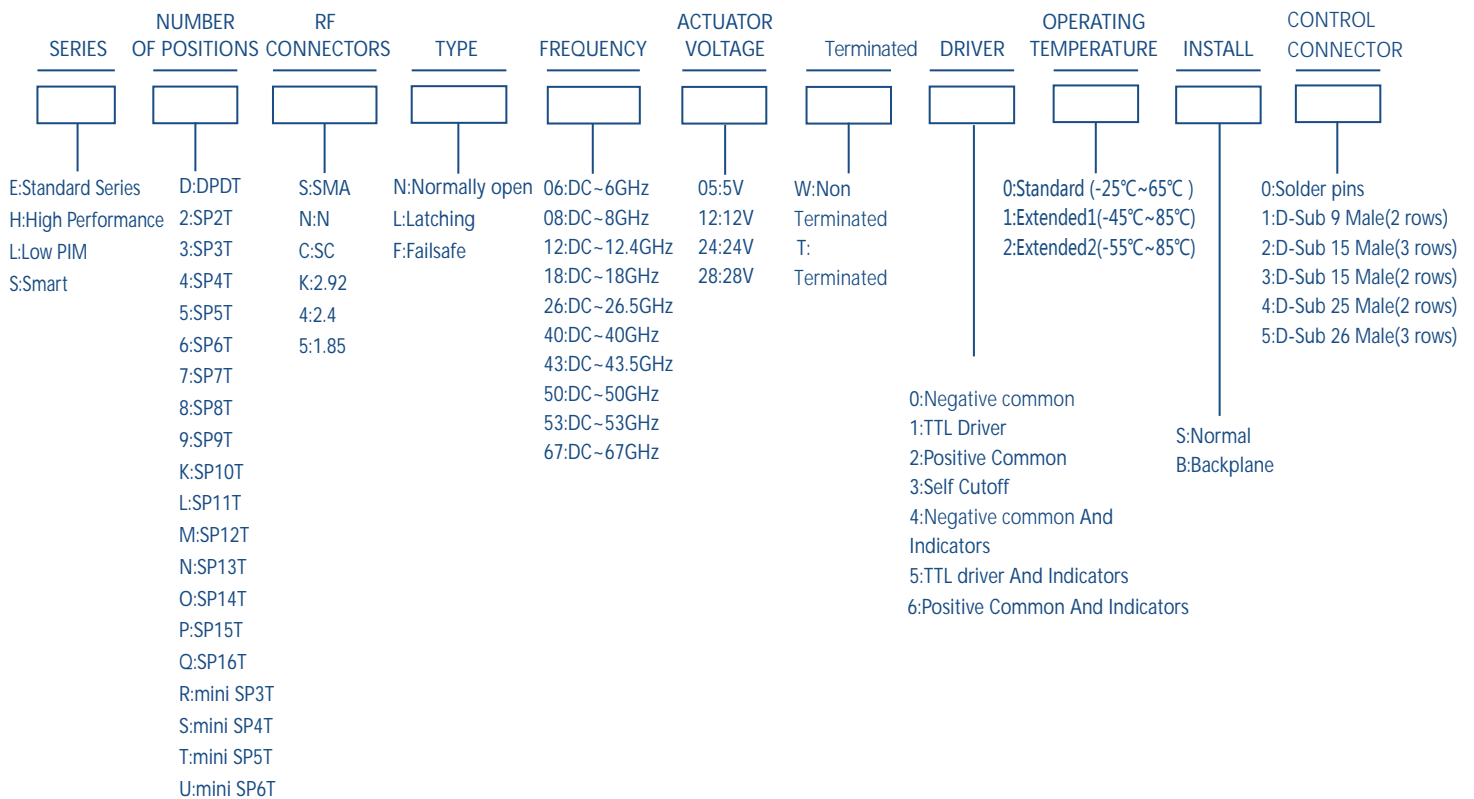
■ Cold Switching:

When the power is greater than 1W, the power is disconnected before the switch is switched.

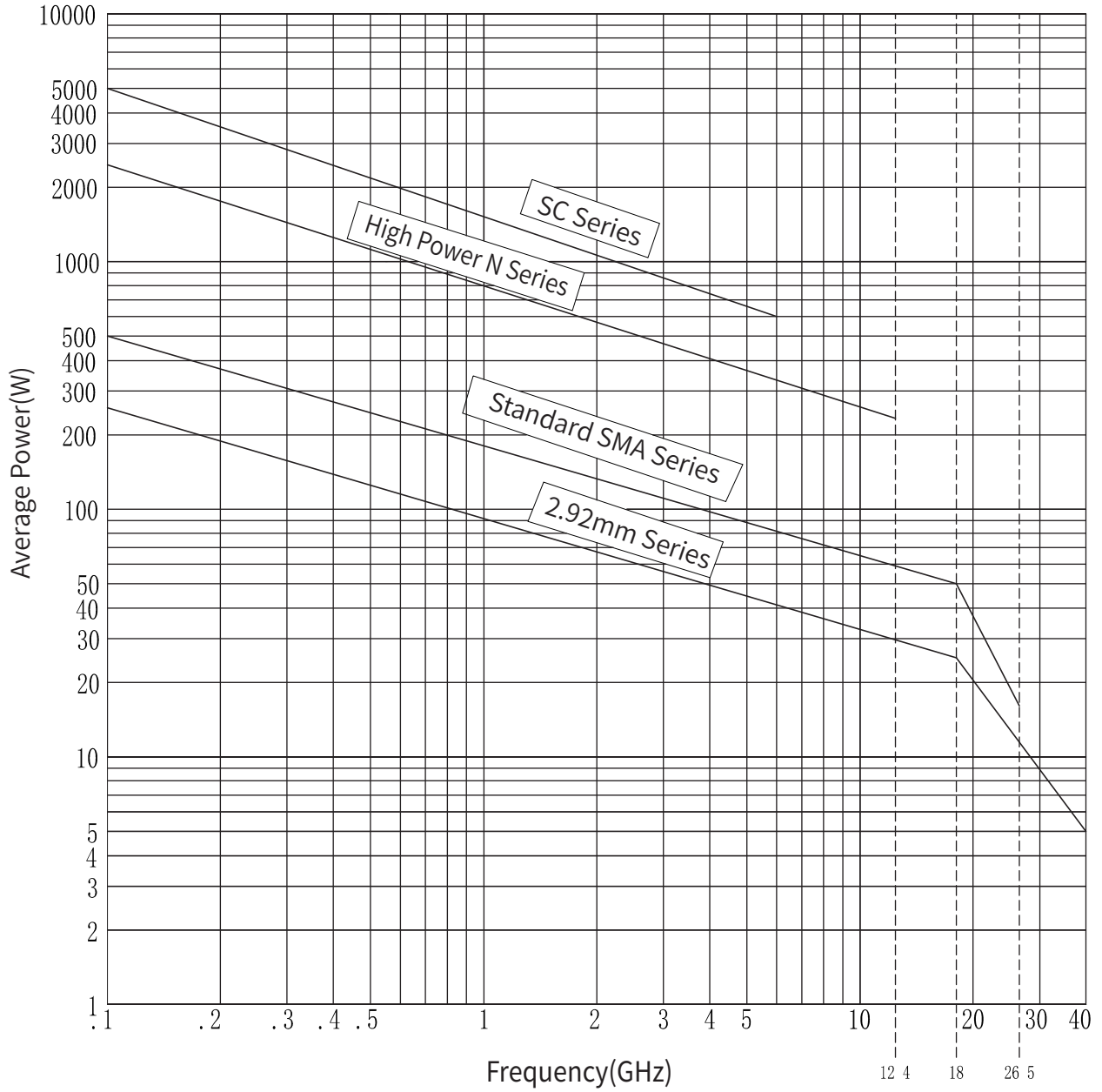
■ Hot Switching:

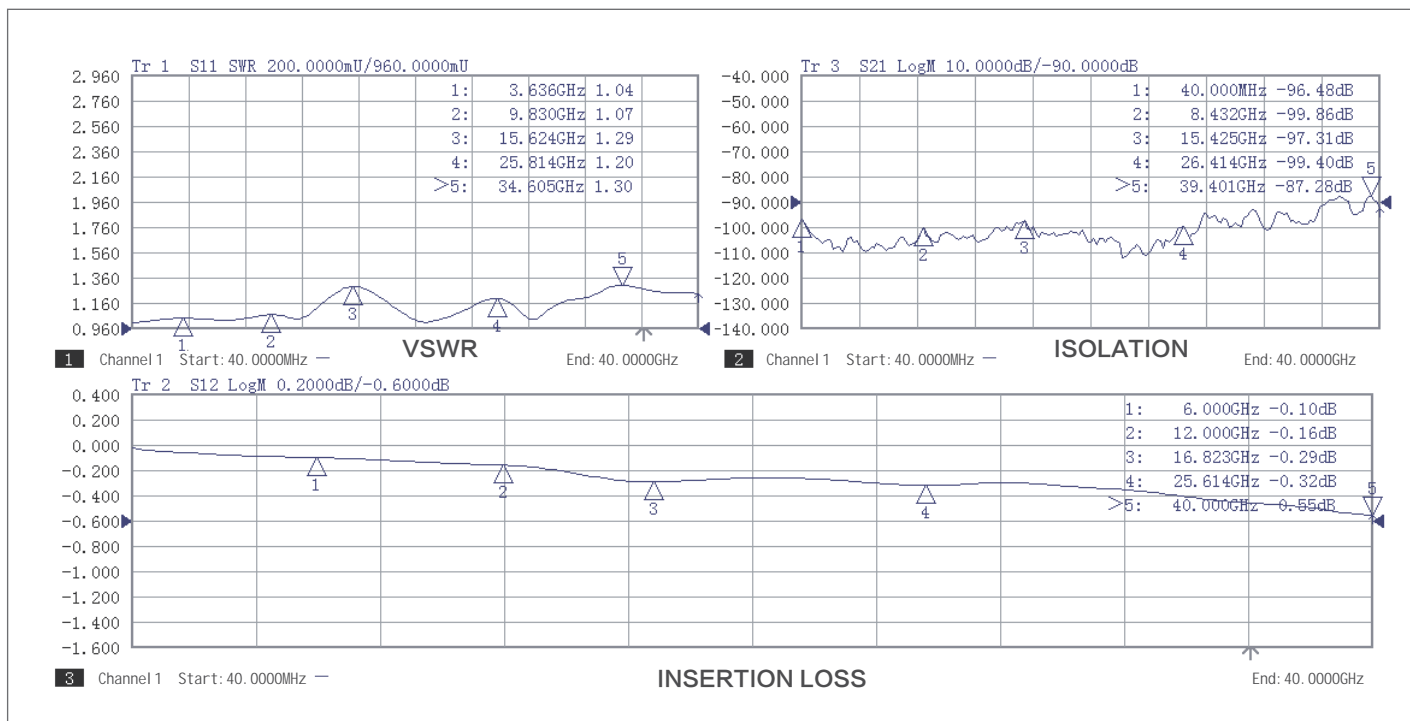
When the rated power is less than 1W, it can be switched with termination.

SWITCH SELECT MODEL

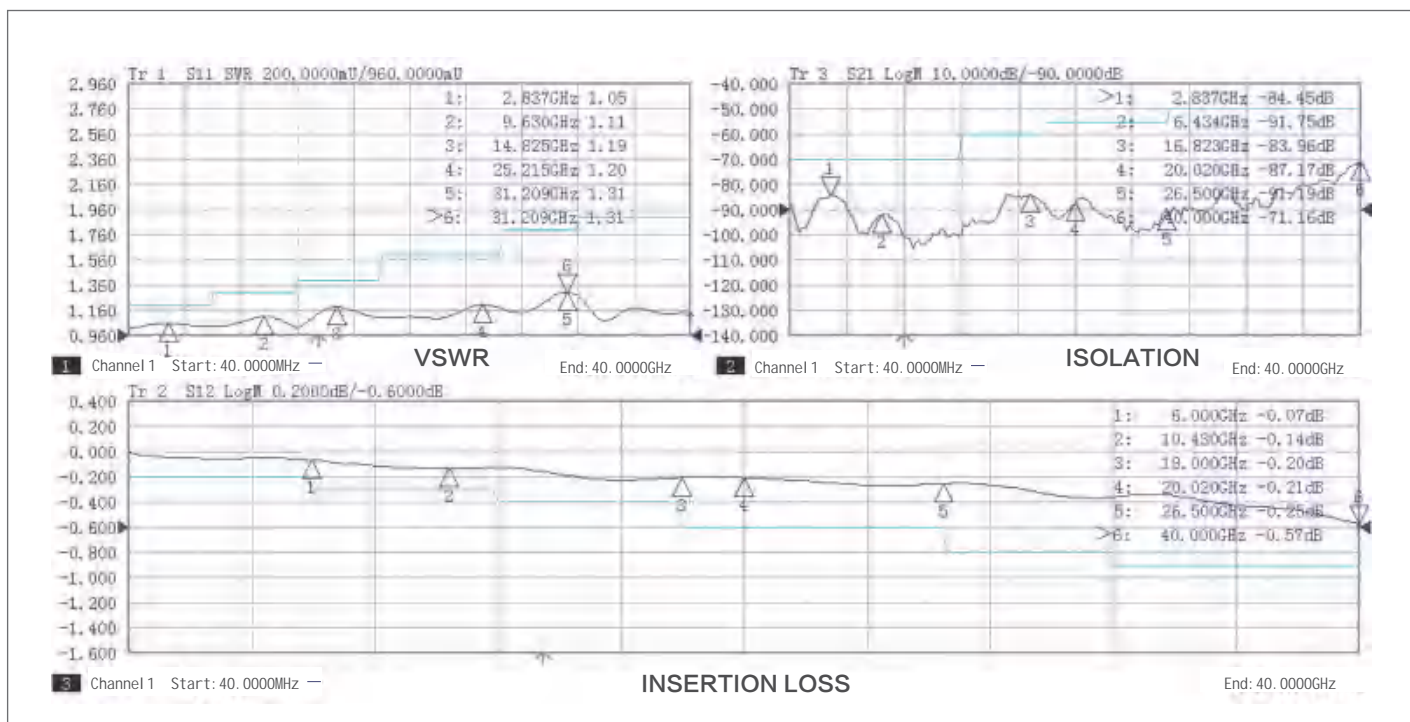


Power Map

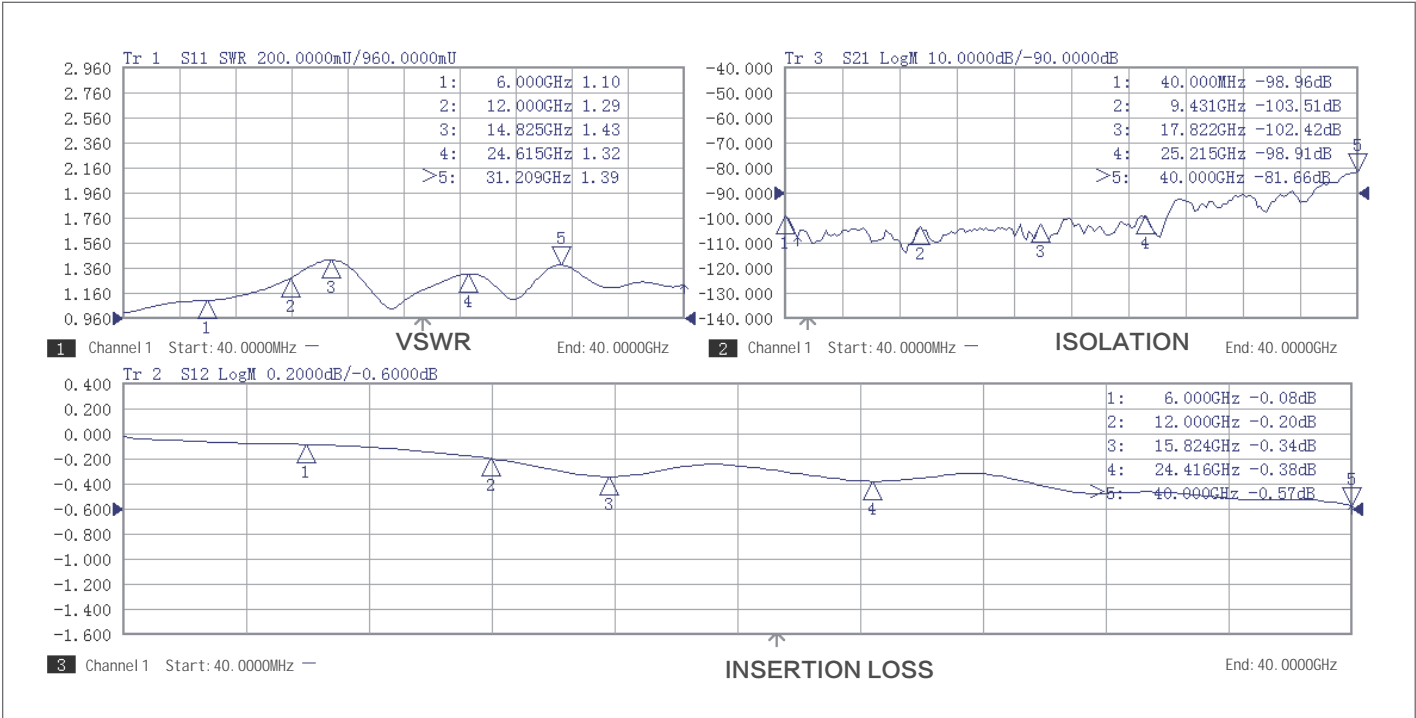




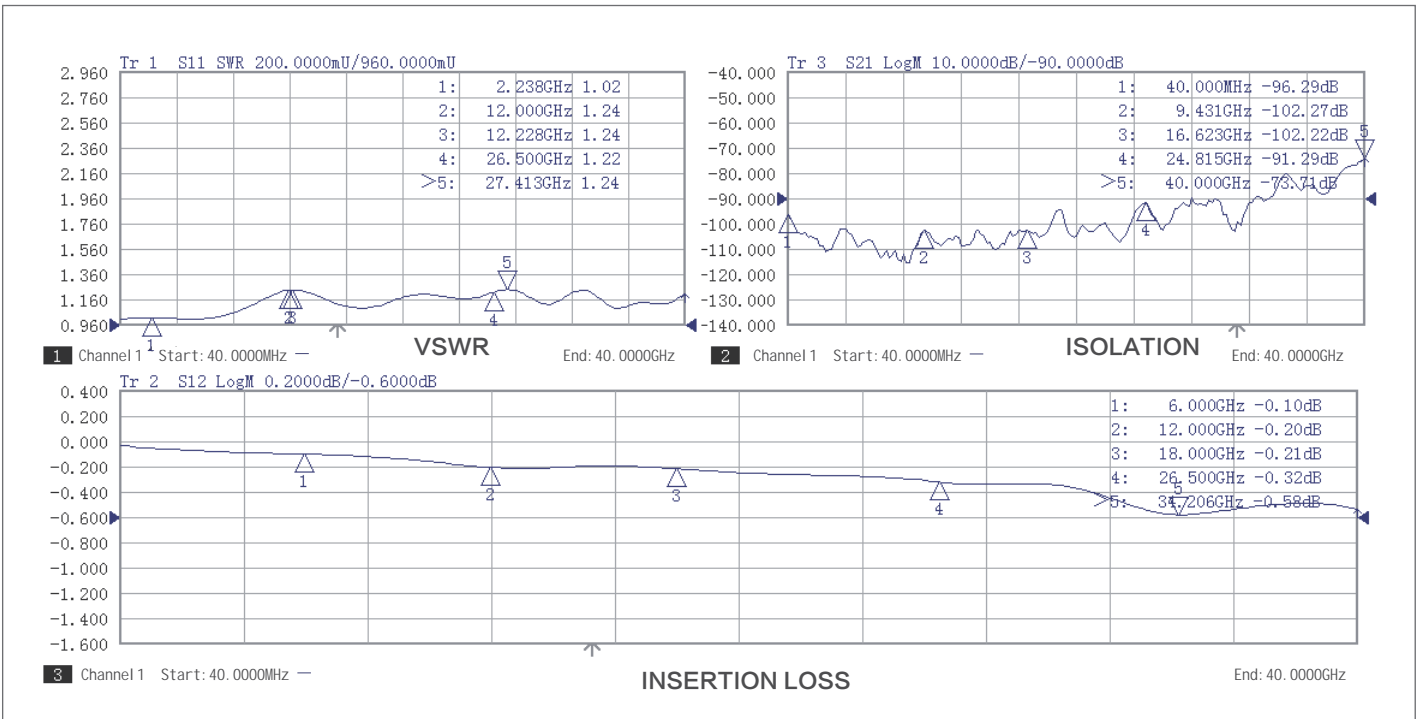
SP6T 40GHz



SPDT 40GHz



SP6T 40GHz Terminated



SPDT 40GHz Terminated

◆ COAXIAL SWITCH

SPDT 18GHz Failsafe / Latching

◆ RF Characteristics

Frequency (GHz)	Ins.loss (dB)	Isolation (dB)	VSWR	RF Power CW (W)
DC-6	0.2	70	1.2	80
6-12	0.3	70	1.3	60
12-18	0.4	60	1.4	50

◆ Operating Voltage/Coil Current

Operating Voltage(V)	12	24	28	
Coil Current (mA)	Failsafe	195	100	95
	Latching	230	140	120

* It can be selected according to user requirements

TTL	TTL Low(V)	TTL High	
	0-0.3	3~5V	20mA

Indicators	Withstand Voltage V (max)	Current capacity mA(max)	Resistance Ω (max)
	50	100	15

* Connect VDC & GND before the function operates

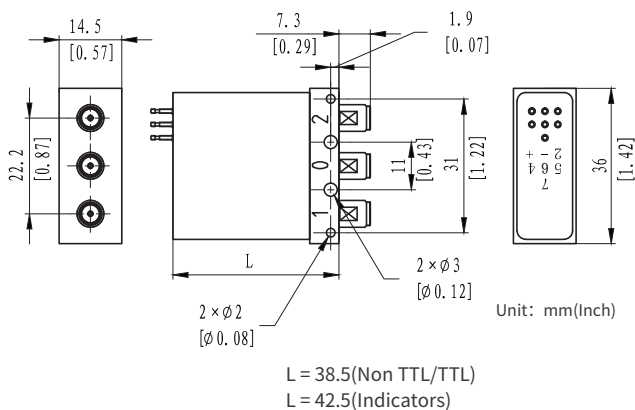


◆ Product Functions

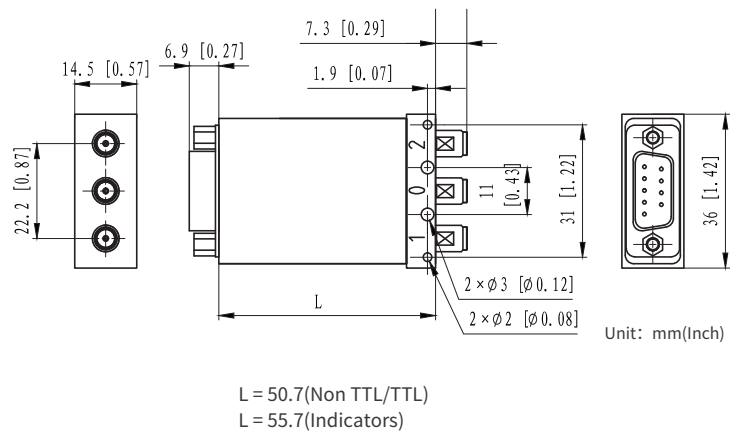
- DC to 18GHz
- Low loss, Low VSWR, High Isolation
- SMA Connector
- Selectable TTL driver control

◆ Outline Drawing

Solder Pins



D-SUB Male

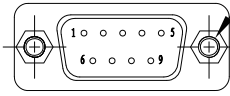


◆ Specifications

Switching Sequence: Break before Make	Mechanical Life Cycles: 2 million cycles	Mechanical Shock, Non-Operating: 50G、1/2 Sine、11 ms
Switching Time: 15ms max	RF Connectors: SMA Female	Vibration Operating: 20-2000 Hz、10G RMS
Storage temperature: -55°C~85°C	Impedance: 50Ω	Actuator Terminals: Solder Pins/D-SUB 9Pin Male
Operating temperature: -25°C~65°C(Standard)		Weight: 45g
-45°C~85°C(Extended1)		
-55°C~85°C(Extended2)		

2 × UNC#4-40▽4

[Depth 0.157]



DB9 male

◆ Truth Table

Failsafe Non TTL		
Actuator Terminals		RF Connector
Solder Pins/D-SUB 9Pin Male		
Pin No.	Define	No Power,RF 1-0
1	V	RF 2-0
2	N/A	-
3	GND	-
4	Ind.1	Indicators RF 1-0
5	Ind.2	
6	Ind.com	
7	VDC	
8-9	N/A	-

Failsafe TTL		
Actuator Terminals		RF Connector
Solder Pins/D-SUB 9Pin Male		
Pin No.	Define	No Power,RF 1-0
1	VDC	RF 2-0
2	TTL	-
3	GND	-
4	Ind.1	Indicators RF 1-0
5	Ind.2	
6	Ind.com	
7-9	N/A	-

Latching Non TTL		
Actuator Terminals		RF Connector
Solder Pins/D-SUB 9Pin Male		
Pin No.	Define	-
1	V1	RF 1-0
2	V2	RF 2-0
3	GND	-
4	Ind.1	Indicators RF 1-0
5	Ind.2	
6	Ind.com	
7	VDC	
8-9	N/A	-

Latching TTL		
Actuator Terminals		RF Connector
Solder Pins/D-SUB 9Pin Male		
Pin No.	Define	-
1	VDC	-
2	TTL	RF 1-0
3	GND	-
4	TTL	RF 2-0
5	Ind.1	Indicators RF 1-0
6	Ind.2	
7	Ind.com	
8-9	N/A	-

◆ Product Selection

Series	Number Of Positions	Rf Connectors	Type	Frequency	Actuator Voltage	Terminated Driver	Operating Temperature	Instal	Control connector
E	2	S				W		S	
Standard Series	SP2T	SMA	L:Latching F:Failsafe	06:DC~6GHz 08:DC~8GHz 12:DC~12.4GHz 18:DC~18GHz	05:5V 12:12V 24:24V 28:28V	Non Terminated	0:Standard (-25°C~65°C) 1:Extended1 (-45°C~85°C) 2:Extended2 (-55°C~85°C)	Normal	0:Solder Pins 1:D-Sub 9 Male (2 rows)

★ EXP: E2SL0605W00S0: Standard Series、SP2T、SMA、Latching、DC~6GHz、5V、Non Terminated、Negative comm、Standard、Normal、Solder Pins.

◆ COAXIAL SWITCH

SPDT 26.5GHz Failsafe / Latching

◆ RF Characteristics

Frequency (GHz)	Ins.loss (dB)	Isolation (dB)	VSWR	RF Power CW (W)
DC-6	0.2	70	1.2	80
6-12	0.3	70	1.3	60
12-18	0.4	60	1.4	50
18-26.5	0.6	55	1.6	15

◆ Operating Voltage/Coil Current

Coil Current (mA)	Operating Voltage(V)			
	12	24	28	
Failsafe	195	100	95	
	Latching	230	140	120

* It can be selected according to user requirements

TTL	TTL Low(V)	TTL High	
	0-0.3	3~5V	20mA

Indicators	Withstand Voltage V (max)	Current capacity mA(max)	Resistance Ω (max)
	50	100	15

* Connect VDC & GND before the function operates

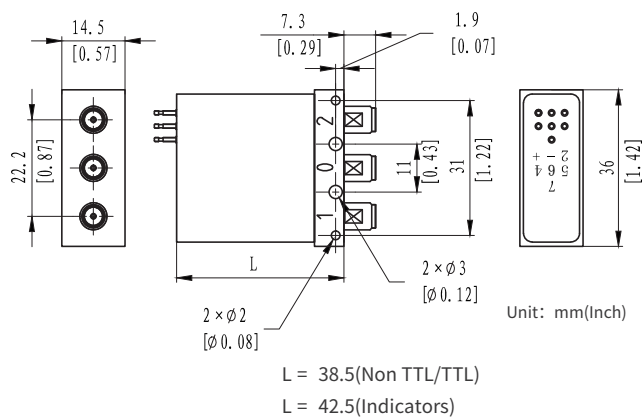


◆ Product Functions

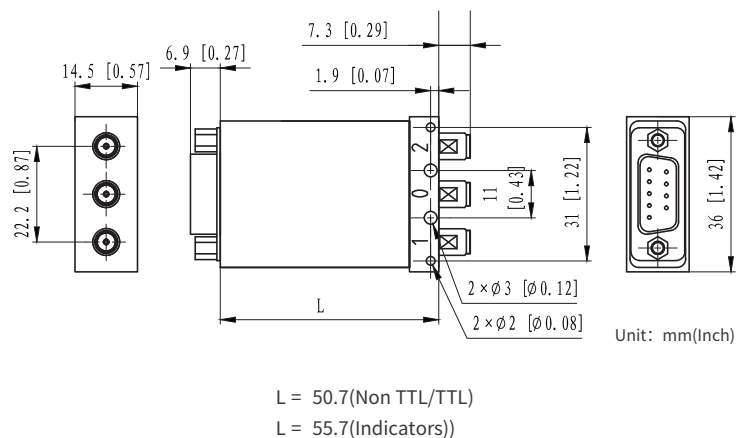
- DC to 26.5GHz
- Low loss, Low VSWR, High Isolation
- SMA Connector
- Selectable TTL driver control

◆ Outline Drawing

Solder Pins



D-SUB Male

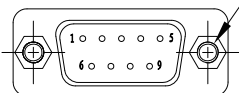


◆ Specifications

Switching Sequence: Break before Make	Mechanical Life Cycles: 2 million cycles	Mechanical Shock, Non-Operating: 50G、1/2 Sine、11 ms
Switching Time: 15ms max	RF Connectors: SMA Female	Vibration Operating: 20-2000 Hz、10G RMS
Storage temperature: -55°C~85°C	Impedance: 50Ω	Actuator Terminals: Solder Pins/D-SUB 9Pin Male
Operating temperature: -25°C~65°C(Standard)		Weight: 45g
-45°C~85°C(Extended1)		
-55°C~85°C(Extended2)		

2 × UNC#4-40▽4

[Depth 0.157]



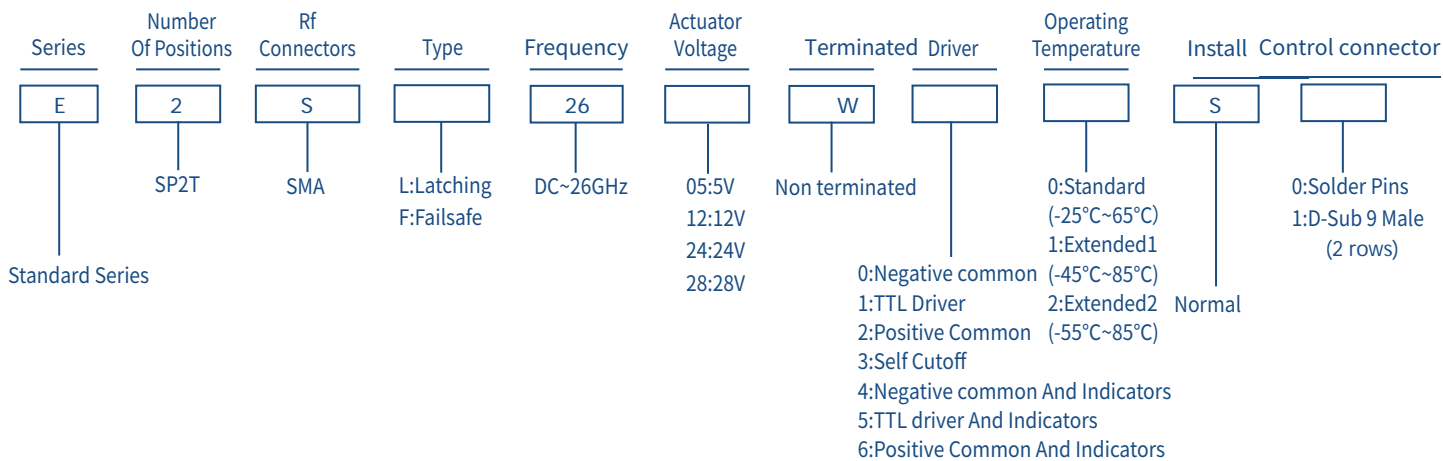
DB9 male

◆ Truth Table

Failsafe Non TTL			Failsafe TTL				
Actuator Terminals		RF Connector	Actuator Terminals		RF Connector		
Solder Pins/D-SUB 9Pin Male			Solder Pins/D-SUB 9Pin Male				
Pin No.	Define	No Power,RF 1-0	Pin No.	Define	No Power,RF 1-0		
1	V	RF 2-0	1	VDC	RF 2-0		
2	N/A	-	2	TTL	-		
3	GND	-	3	GND	-		
4	Ind.1	Indicators	4	Ind.1	Indicators		
5	Ind.2		RF 1-0	5		Ind.2	RF 2-0
6	Ind.com		-	6		Ind.com	-
7	VDC		-	7~9		N/A	-
8~9	N/A	-					

Latching Non TTL			Latching TTL				
Actuator Terminals		RF Connector	Actuator Terminals		RF Connector		
Solder Pins/D-SUB 9Pin Male			Solder Pins/D-SUB 9Pin Male				
Pin No.	Define	-	Pin No.	Define	-		
1	V1	RF 1-0	1	VDC			
2	V2	RF 2-0	2	TTL	RF 1-0		
3	GND	-	3	GND	-		
4	Ind.1	Indicators	4	TTL	RF 2-0		
5	Ind.2		RF 1-0	5	Ind.1	Indicators	
6	Ind.com		RF 2-0	6	Ind.2		RF 1-0
7	VDC		-	7	Ind.com		RF 2-0
8~9	N/A	-	8~9	N/A	-		

◆ Product Selection



★ EXP: E2SL2605W00S0: Standard Series, SP2T, SMA, Latching, DC~26GHz, 5V, Non Terminated, Negative common, Standard, Normal, Solder Pins.

◆ COAXIAL SWITCH

SPDT 40GHz Failsafe / Latching

◆ RF Characteristics

Frequency (GHz)	Ins.loss (dB)	Isolation (dB)	VSWR	RF Power CW (W)
DC-6	0.2	70	1.2	40
6-12	0.3	70	1.3	30
12-18	0.4	60	1.4	25
18-26.5	0.6	55	1.6	12
26.5-32	0.7	50	1.7	8
32-40	0.8	50	1.8	5



◆ Operating Voltage/Coil Current

Operating Voltage(V)		12	24	28
Coil Current (mA)	Failsafe	195	100	95
	Latching	230	140	120

* It can be selected according to user requirements

TTL	TTL Low(V)	TTL High	
	0-0.3	3~5V	20mA

Indicators	Withstand Voltage V (max)	Current capacity mA(max)	Resistance Ω (max)
	50	100	15

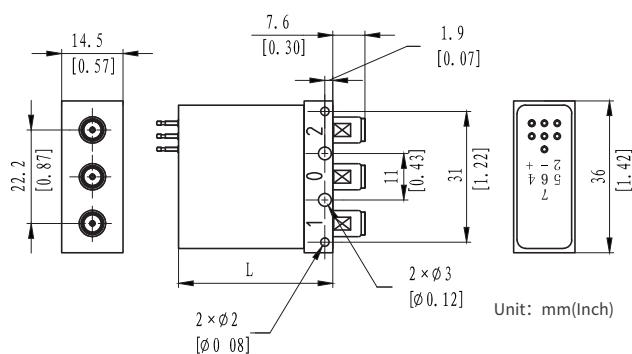
* Connect VDC & GND before the function operates

◆ Product Functions

- DC to 40GHz
- 2.92 Connector
- Selectable TTL driver control

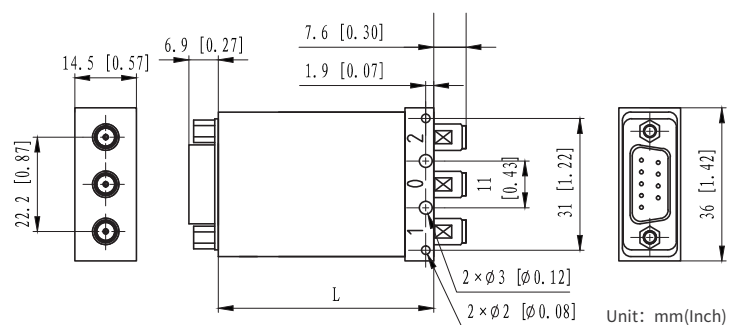
◆ Outline Drawing

Solder Pins



L = 38.5(Non TTL/TTL)
L = 42.5(Indicators)

D-SUB Male



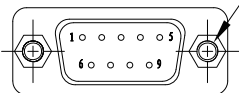
L = 50.7(Non TTL/TTL)
L = 55.7(Indicators)

◆ Specifications

Switching Sequence: Break before Make	Mechanical Life Cycles: 2 million cycles	Mechanical Shock, Non-Operating: 50G, 1/2 Sine, 11 ms
Switching Time: 15ms max	RF Connectors: 2.92 Female	Vibration Operating: 20-2000 Hz, 10G RMS
Storage Temperature: -55°C~85°C	Impedance: 50Ω	Actuator Terminals: Solder Pins/D-SUB 9Pin Male
Operating temperature: -25°C~65°C(Standard)		Weight: 45g
-45°C~85°C(Extended1)		
-55°C~85°C(Extended2)		

2 × UNC#4-40▽4

[Depth 0.157]



DB9 male

◆ Truth Table

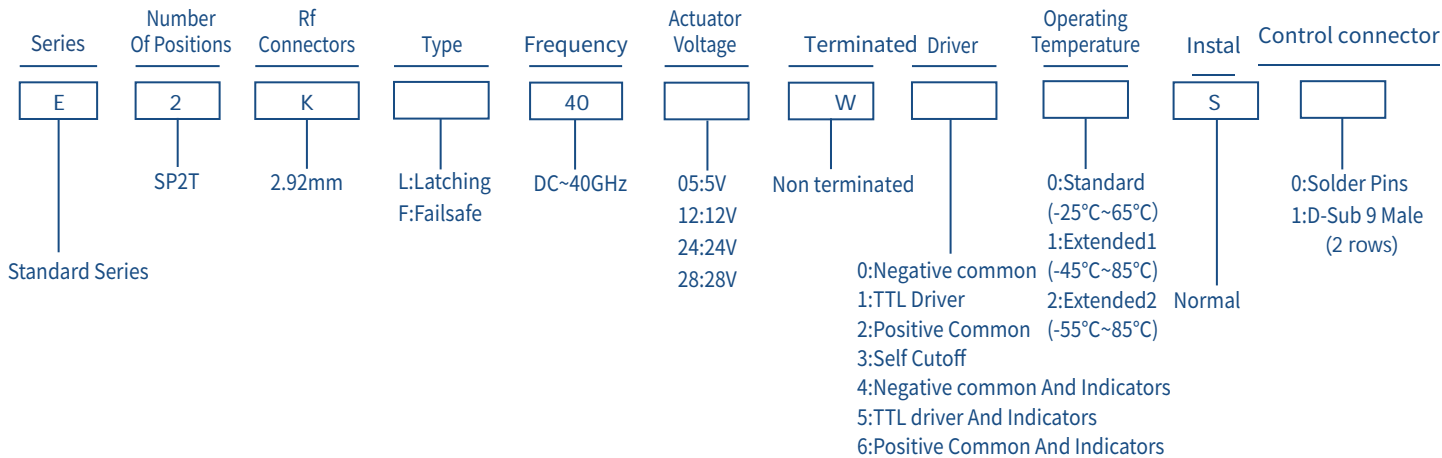
Failsafe Non TTL		
Actuator Terminals		RF Connector
Solder Pins/D-SUB 9Pin Male		
Pin No.	Define	No Power,RF 1-0
1	V	RF 2-0
2	N/A	-
3	GND	-
4	Ind.1	Indicators RF 1-0
5	Ind.2	
6	Ind.com	
7	VDC	
8~9	N/A	-

Failsafe TTL		
Actuator Terminals		RF Connector
Solder Pins/D-SUB 9Pin Male		
Pin No.	Define	No Power,RF 1-0
1	VDC	RF 2-0
2	TTL	-
3	GND	-
4	Ind.1	Indicators RF 1-0
5	Ind.2	
6	Ind.com	
7~9	N/A	-

Latching Non TTL		
Actuator Terminals		RF Connector
Solder Pins/D-SUB 9Pin Male		
Pin No.	Define	-
1	V1	RF 1-0
2	V2	RF 2-0
3	GND	-
4	Ind.1	Indicators RF 1-0
5	Ind.2	
6	Ind.com	
7	VDC	
8~9	N/A	-

Latching TTL		
Actuator Terminals		RF Connector
Solder Pins/D-SUB 9Pin Male		
Pin No.	Define	-
1	VDC	-
2	TTL	RF 1-0
3	GND	-
4	TTL	RF 2-0
5	Ind.1	Indicators RF 1-0
6	Ind.2	
7	Ind.com	
8~9	N/A	-

◆ Product Selection



★ EXP: E2KL4005W00S0: Standard Series, SP2T, 2.92mm, Latching, DC-40GHz, 5V, Non Terminated, Negative common, Standard, Normal, Solder Pins.

◆ COAXIAL SWITCH

SPDT 43.5GHz Failsafe / Latching

◆ RF Characteristics

Frequency (GHz)	Ins.loss (dB)	Isolation (dB)	VSWR	RF Power CW (W)
DC-6	0.2	70	1.2	40
6-12	0.3	70	1.3	30
12-18	0.4	60	1.4	25
18-26.5	0.6	55	1.6	12
26.5-32	0.7	50	1.7	8
32-40	0.8	50	1.8	5
40-43.5	0.8	50	1.8	4

◆ Operating Voltage/Coil Current

Operating Voltage(V)		12	24	28
Coil Current (mA)	Failsafe	195	100	95
	Latching	230	140	120

* It can be selected according to user requirements

TTL	TTL Low(V)	TTL High	
	0-0.3	3~5V	20mA

Indicators	Withstand Voltage V (max)	Current capacity mA(max)	Resistance Ω (max)
	50	100	15

* Connect VDC & GND before the function operates

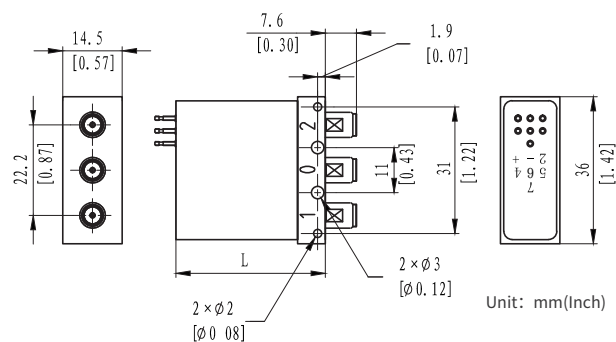


◆ Product Functions

- DC to 43.5GHz
- 2.92 Connector
- Selectable TTL driver control

◆ Outline Drawing

Solder Pins

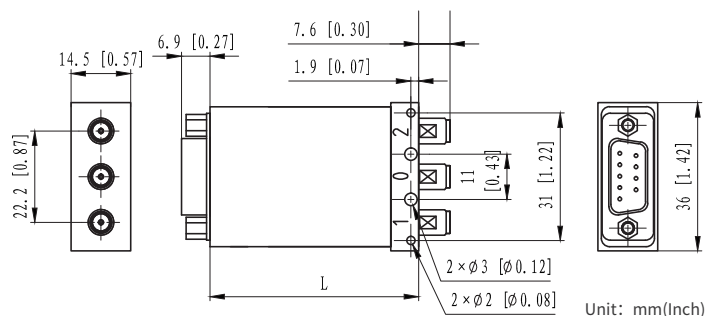


L = 38.5(Non TTL/TTL)

L = 42.5(Indicators)

Unit: mm(Inch)

D-SUB Male



L = 50.7(Non TTL/TTL)

L = 55.7(Indicators)

Unit: mm(Inch)

◆ Specifications

Switching Sequence: Break before Make

Mechanical Life Cycles: 2 million cycles

Mechanical Shock, Non-Operating: 50G, 1/2 Sine, 11 ms

Switching Time: 15ms max

RF Connectors: 2.92 Female

Vibration Operating: 20-2000 Hz, 10G RMS

Storage temperature: -55°C~85°C

Impedance: 50Ω

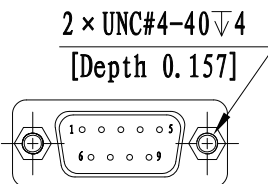
Actuator Terminals: Solder Pins/D-SUB 9Pin Male

Operating temperature: -25°C~65°C(Standard)

-45°C~85°C(Extended1)

-55°C~85°C(Extended2)

Weight: 45g



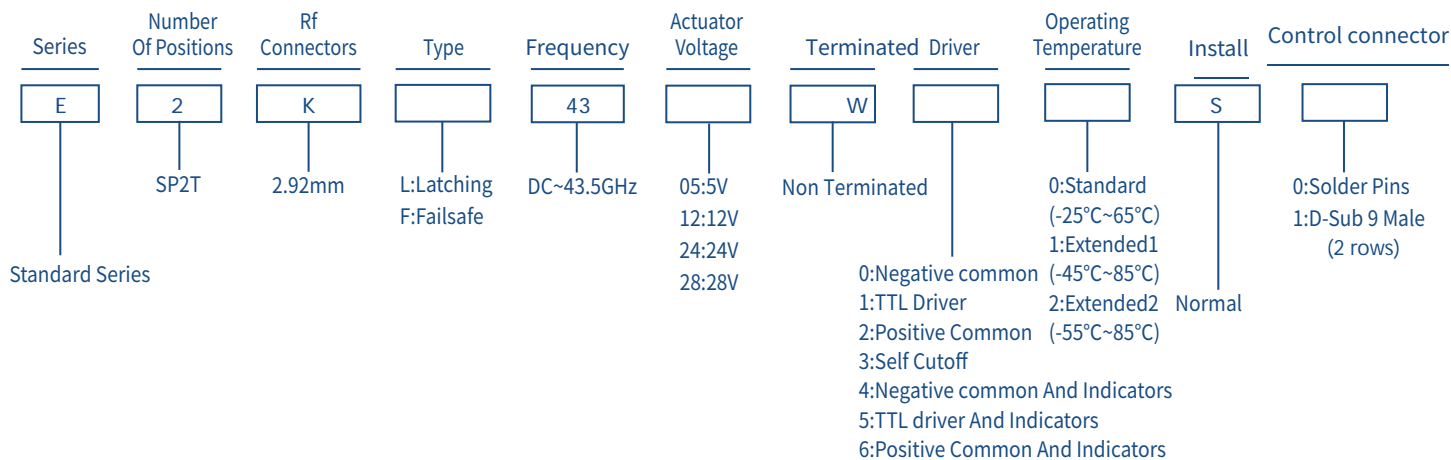
DB9 male

◆ Truth Table

Failsafe Non TTL				Failsafe TTL			
Actuator Terminals			RF Connector	Actuator Terminals			RF Connector
Solder Pins/D-SUB 9Pin Male				Solder Pins/D-SUB 9Pin Male			
Pin No.	Define		No Power,RF 1-0	Pin No.	Define		No Power,RF 1-0
1	V		RF 2-0	1	VDC		RF 2-0
2	N/A		-	2	TTL		-
3	GND		-	3	GND		-
4	Ind.1	Indicators	RF 1-0	4	Ind.1	Indicators	RF 1-0
5	Ind.2		RF 2-0	5	Ind.2		RF 2-0
6	Ind.com		-	6	Ind.com		-
7	VDC		-	7~9	N/A		-
8~9	N/A		-				

Latching Non TTL				Latching TTL			
Actuator Terminals			RF Connector	Actuator Terminals			RF Connector
Solder Pins/D-SUB 9Pin Male				Solder Pins/D-SUB 9Pin Male			
Pin No.	Define		-	Pin No.	Define		-
1	V1		RF 1-0	1	VDC		-
2	V2		RF 2-0	2	TTL		RF 1-0
3	GND		-	3	GND		-
4	Ind.1	Indicators	RF 1-0	4	TTL		RF 2-0
5	Ind.2		RF 2-0	5	Ind.1	Indicators	RF 1-0
6	Ind.com		-	6	Ind.2		RF 2-0
7	VDC		-	7	Ind.com		-
8~9	N/A		-	8~9	N/A		-

◆ Product Selection



★ EXP: E2KL4305W00S0: Standard Series, SP2T, 2.92mm, Latching, DC~43.5GHz, 5V, Non Terminated, Negative common, Standard, Normal, Solder pins.

◆ COAXIAL SWITCH

SPDT 50GHz Failsafe / Latching

◆ RF Characteristics

Frequency (GHz)	Ins.loss (dB)	Isolation (dB)	VSWR	RF Power CW (W)
DC-6	0.2	70	1.2	40
6-12	0.3	70	1.3	30
12-18	0.4	60	1.4	25
18-26.5	0.6	55	1.6	12
26.5-32	0.7	50	1.7	8
32-40	0.8	50	1.8	5
40-43	0.8	50	1.8	4
43-50	0.9	45	1.9	3

◆ Operating Voltage/Coil Current

Operating Voltage(V)		12	24	28
Coil Current (mA)	Failsafe	195	100	95
	Latching	230	140	120

* It can be selected according to user requirements

TTL	TTL Low(V)	TTL High	
	0-0.3	3~5V	20mA

Indicators	Withstand Voltage V (max)	Current capacity mA(max)	Resistance Ω (max)
	50	100	15

* Connect VDC & GND before the function operates

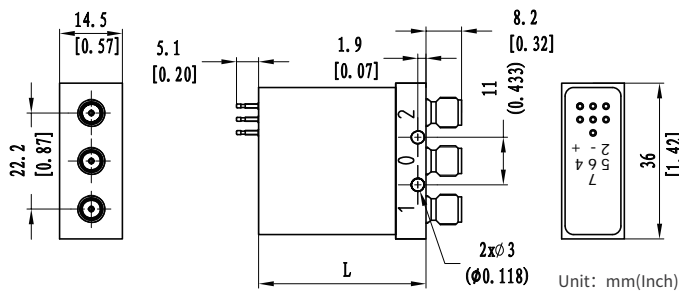


◆ Product Functions

- DC to 50GHz
- 1.85 Connector
- Selectable TTL driver control

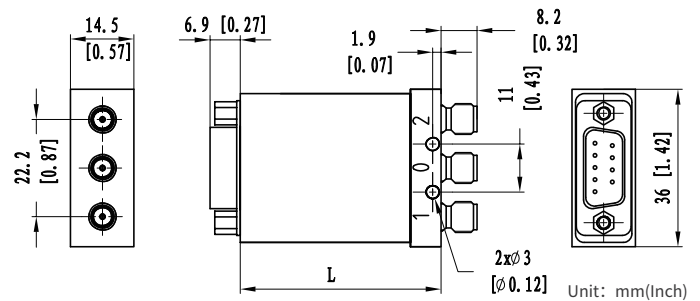
◆ Outline Drawing

Solder Pins



L = 38.7(Non TTL/TTL)
L = 44.7(Indicators)

D-SUB Male

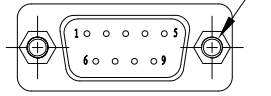


L = 47.9(Non TTL/TTL)
L = 55.9(Indicators)

◆ Specifications

Switching Sequence: Break before Make	Mechanical Life Cycles: 2 million cycles	Mechanical Shock, Non-Operating: 50G, 1/2 Sine, 11 ms
Switching Time: 15ms max	RF Connectors: 1.85 Female	Vibration Operating: 20-2000 Hz, 10G RMS
Storage temperature: -55°C~85°C	Impedance: 50Ω	Actuator Terminals: Solder Pins/D-SUB 9Pin Male
Operating temperature: -25°C~65°C(Standard)		Weight: 50g
-45°C~85°C(Extended1)		
-55°C~85°C(Extended2)		

2 × UNC#4-40▽4
[Depth 0.157]



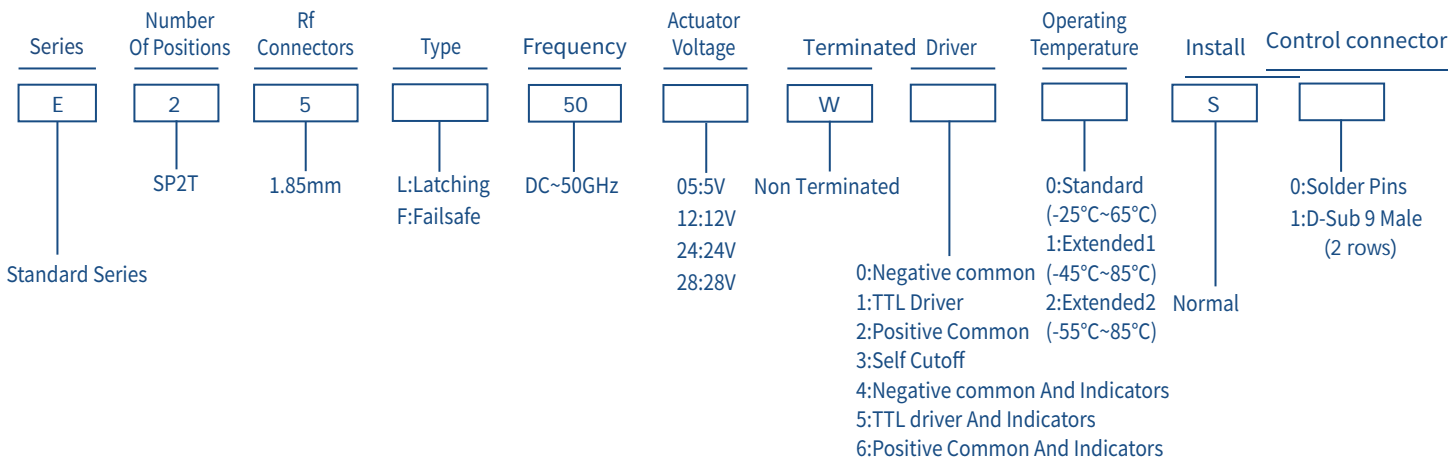
DB9 male

◆ Truth Table

Failsafe Non TTL				Failsafe TTL			
Actuator Terminals			RF Connector	Actuator Terminals			RF Connector
Solder Pins/D-SUB 9Pin Male				Solder Pins/D-SUB 9Pin Male			
Pin No.	Define		No Power,RF 1-0	Pin No.	Define		No Power,RF 1-0
1	V		RF 2-0	1	VDC		RF 2-0
2	N/A		-	2	TTL		-
3	GND		-	3	GND		-
4	Ind.1	Indicators	RF 1-0	4	Ind.1	Indicators	RF 1-0
5	Ind.2		RF 2-0	5	Ind.2		RF 2-0
6	Ind.com		-	6	Ind.com		-
7	VDC		-	7~9	N/A		-
8~9	N/A		-				

Latching Non TTL				Latching TTL			
Actuator Terminals			RF Connector	Actuator Terminals			RF Connector
Solder Pins/D-SUB 9Pin Male				Solder Pins/D-SUB 9Pin Male			
Pin No.	Define		-	Pin No.	Define		-
1	V1		RF 1-0	1	VDC		-
2	V2		RF 2-0	2	TTL		RF 1-0
3	GND		-	3	GND		-
4	Ind.1	Indicators	RF 1-0	4	TTL		RF 2-0
5	Ind.2		RF 2-0	5	Ind.1	Indicators	RF 1-0
6	Ind.com		-	6	Ind.2		RF 2-0
7	VDC		-	7	Ind.com		-
8~9	N/A		-	8~9	N/A		-

◆ Product Selection



★ EXP: E25L5005W00S0: Standard Series, SP2T, 1.85mm, Latching, DC~50GHz, 5V, Non Terminated, Negative common, Standard, Normal, Solder Pins.

◆ COAXIAL SWITCH

SPDT 53GHz Failsafe / Latching

◆ RF Characteristics

Frequency (GHz)	Ins.loss (dB)	Isolation (dB)	VSWR	RF Power CW (W)
DC-6	0.2	70	1.2	40
6-12	0.3	70	1.3	30
12-18	0.4	60	1.4	25
18-26.5	0.6	55	1.6	12
26.5-32	0.7	50	1.7	8
32-40	0.8	50	1.8	5
40-43	0.9	45	1.9	4
43-50	0.9	45	1.9	3
50-53	1.0	45	2.0	2

◆ Operating Voltage/Coil Current

Operating Voltage(V)		12	24	28
Coil Current (mA)	Failsafe	195	100	95
	Latching	230	140	120

* It can be selected according to user requirements

TTL	TTL Low(V)	TTL High	
	0-0.3	3~5V	20mA

Indicators	Withstand Voltage V (max)	Current capacity mA(max)	Resistance Ω (max)
	50	100	15

* Connect VDC & GND before the function operates

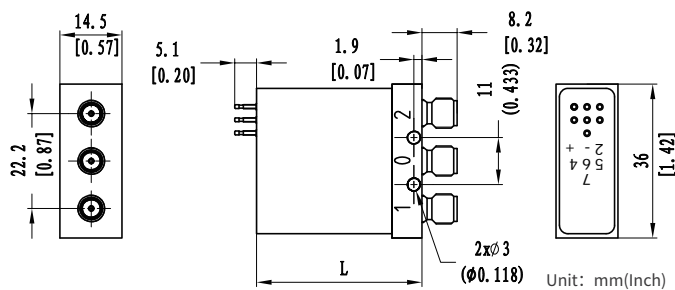


◆ Product Functions

- DC to 53GHz
- 1.85 Connector
- Selectable TTL driver control

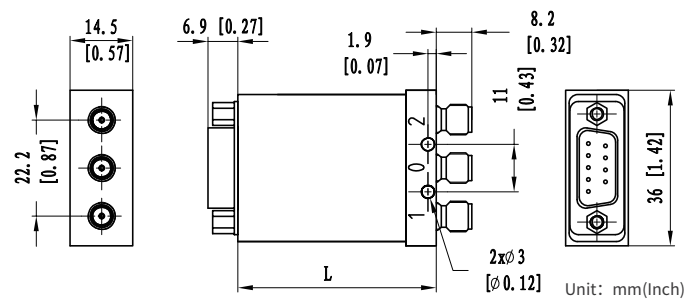
◆ Outline Drawing

Solder Pins



L = 38.7(Non TTL/TTL)
L = 44.7(Indicators)

D-SUB Male



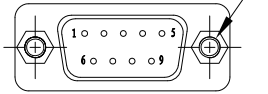
L = 47.9(Non TTL/TTL)
L = 55.9(Indicators)

◆ Specifications

Switching Sequence: Break before Make	Mechanical Life Cycles: 2 million cycles	Mechanical Shock, Non-Operating: 50G, 1/2 Sine, 11 ms
Switching Time: 15ms max	RF Connectors: 1.85 Female	Vibration Operating: 20-2000 Hz, 10G RMS
Storage temperature: -55°C~85°C	Impedance: 50Ω	Actuator Terminals: Solder Pins/D-SUB 9Pin Male
Operating temperature: -25°C~65°C(Standard)		Weight: 50g
-45°C~85°C(Extended1)		
-55°C~85°C(Extended2)		

2 × UNC#4-40▽4

[Depth 0.157]



DB9 male

◆ Truth Table

Failsafe Non TTL				Failsafe TTL			
Actuator Terminals			RF Connector	Actuator Terminals			RF Connector
Solder Pins/D-SUB 9Pin Male				Solder Pins/D-SUB 9Pin Male			
Pin No.	Define		No Power,RF 1-0	Pin No.	Define		No Power,RF 1-0
1	V		RF 2-0	1	VDC		RF 2-0
2	N/A		-	2	TTL		-
3	GND		-	3	GND		-
4	Ind.1	Indicators	RF 1-0	4	Ind.1	Indicators	RF 1-0
5	Ind.2		RF 2-0	5	Ind.2		RF 2-0
6	Ind.com		-	6	Ind.com		-
7	VDC		-	7~9	N/A		-
8~9	N/A		-				

Latching Non TTL				Latching TTL			
Actuator Terminals			RF Connector	Actuator Terminals			RF Connector
Solder Pins/D-SUB 9Pin Male				Solder Pins/D-SUB 9Pin Male			
Pin No.	定义		-	Pin No.	定义		-
1	V1		RF 1-0	1	VDC		-
2	V2		RF 2-0	2	TTL		RF 1-0
3	GND		-	3	GND		-
4	Ind.1	Indicators	RF 1-0	4	TTL		RF 2-0
5	Ind.2		RF 2-0	5	Ind.1	Indicators	RF 1-0
6	Ind.com		-	6	Ind.2		RF 2-0
7	VDC		-	7	Ind.com		-
8~9	N/A		-	8~9	N/A		-

◆ Product Selection

Series	Number Of Positions	Rf Connectors	Type	Frequency	Actuator Voltage	Terminated Driver	Operating Temperature	Install	Control connector
E	2	5		53		W		S	
Standard Series	SP2T	1.85mm	L:Latching F:Failsafe	DC~53GHz	05:5V 12:12V 24:24V 28:28V	Non Terminated	0:Standard (-25°C~65°C) 1:Extended1 (-45°C~85°C) 2:Extended2 (-55°C~85°C)	Normal	0:Solder Pins 1:D-Sub 9 Male (2 rows)

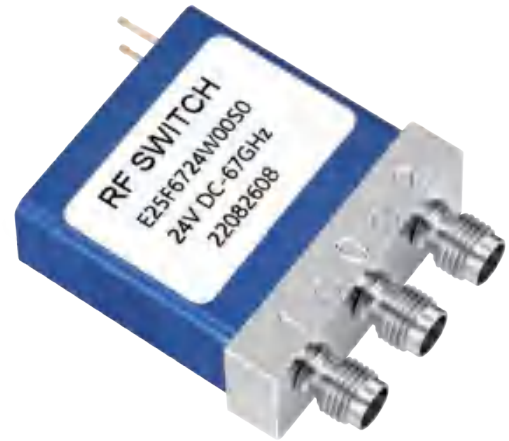
★ EXP: E25L5305W00S0: Standard Series、SP2T、1.85mm、Latching、DC~53GHz、5V、Non Terminated、Negative common、Standard、Normal、Solder Pins.

◆ COAXIAL SWITCH

SPDT 67GHz Failsafe / Latching

◆ RF Characteristics

Frequency (GHz)	Ins.loss (dB)	Isolation (dB)	VSWR	RF Power CW (W)
DC-6	0.2	70	1.2	40
6-12	0.3	70	1.3	30
12-18	0.4	60	1.4	25
18-26.5	0.6	55	1.6	12
26.5-32	0.7	50	1.7	8
32-40	0.8	50	1.8	5
40-43	0.9	45	1.9	4
43-50	1.0	45	2.0	3
50-53	1.1	45	2.1	2
53-67	1.2	45	2.2	2



◆ Operating Voltage/Coil Current

Operating Voltage(V)	12	24	28
	Coil Current (mA)	Failsafe 195	100
	Latching 230	140	120

* It can be selected according to user requirements

TTL	TTL Low(V)	TTL High	
	0-0.3	3~5V	20mA

Indicators	Withstand Voltage V (max)	Current capacity mA(max)	Resistance Ω (max)
		50	100

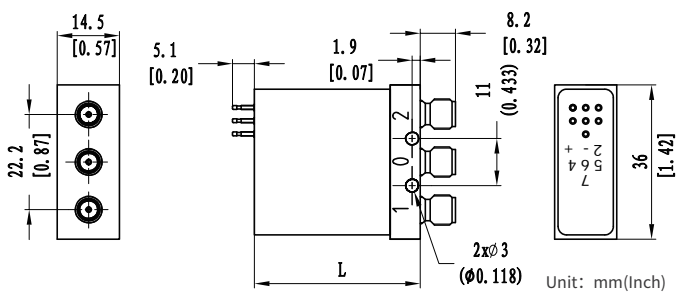
* Connect VDC & GND before the function operates

◆ Product Functions

- DC to 67GHz
- 1.85 Connector
- Selectable TTL driver control

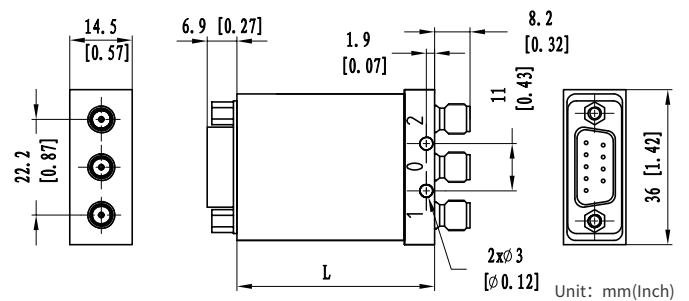
◆ Outline Drawing

Solder Pins



L = 38.7(Non TTL/TTL)
L = 44.7(Indicators)

D-SUB Male



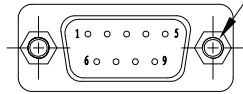
L = 47.9(Non TTL/TTL)
L = 55.9(Indicators)

◆ Specifications

Switching Sequence: Break before Make	Mechanical Life Cycles: 2 million cycles	Mechanical Shock, Non-Operating: 50G, 1/2 Sine, 11 ms
Switching Time: 15ms max	RF Connectors: 1.85 Female	Vibration Operating: 20-2000 Hz, 10G RMS
Storage temperature: -55°C~85°C	Impedance: 50Ω	Actuator Terminals: Solder Pins/D-SUB 9Pin Male
Operating temperature: -25°C~65°C(Standard)		Weight: 50g
-45°C~85°C(Extended1)		
-55°C~85°C(Extended2)		

2 × UNC#4-40▽4

[Depth 0.157]



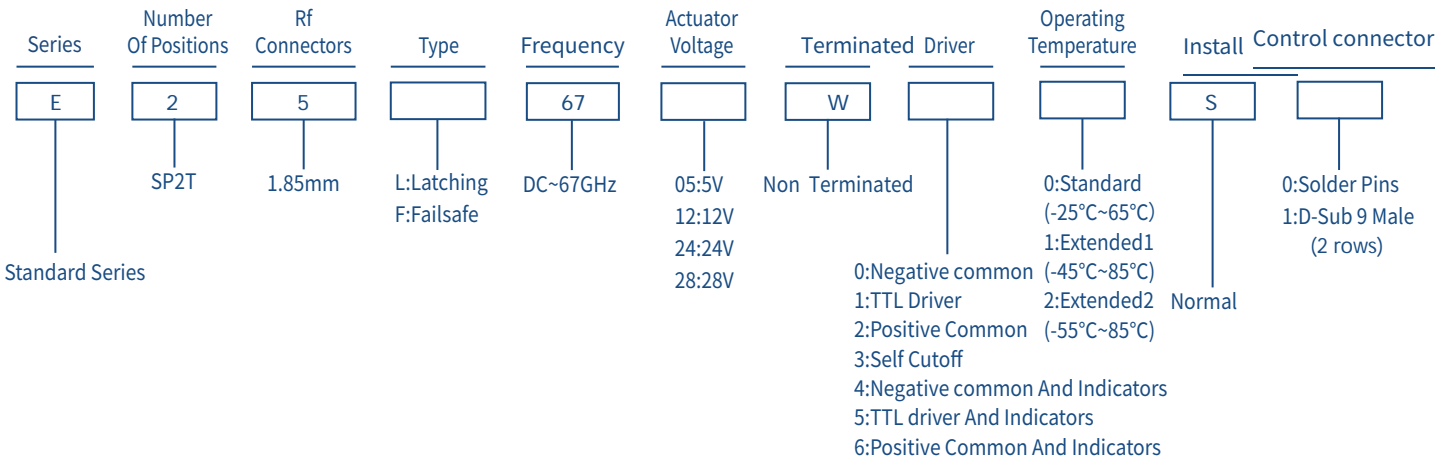
DB9 male

◆ Truth Table

Failsafe Non TTL				Failsafe TTL			
Actuator Terminals			RF Connector	Actuator Terminals			RF Connector
Solder Pins/D-SUB 9Pin Male				Solder Pins/D-SUB 9Pin Male			
Pin No.	Define		No Power,RF 1-0	Pin No.	Define		No Power,RF 1-0
1	V		RF 2-0	1	VDC		RF 2-0
2	N/A		-	2	TTL		-
3	GND		-	3	GND		-
4	Ind.1	Indicators	RF 1-0	4	Ind.1	Indicators	RF 1-0
5	Ind.2		RF 2-0	5	Ind.2		RF 2-0
6	Ind.com		-	6	Ind.com		-
7	VDC		-	7~9	N/A		-
8~9	N/A		-				

Latching Non TTL				Latching TTL			
Actuator Terminals			RF Connector	Actuator Terminals			RF Connector
Solder Pins/D-SUB 9Pin Male				Solder Pins/D-SUB 9Pin Male			
Pin No.	Define		-	Pin No.	Define		-
1	V1		RF 1-0	1	VDC		-
2	V2		RF 2-0	2	TTL		RF 1-0
3	GND		-	3	GND		-
4	Ind.1	Indicators	RF 1-0	4	TTL		RF 2-0
5	Ind.2		RF 2-0	5	Ind.1	Indicators	RF 1-0
6	Ind.com		-	6	Ind.2		RF 2-0
7	VDC		-	7	Ind.com		-
8~9	N/A		-	8~9	N/A		-

◆ Product Selection



★ EXP: E25L6705W00S0: Standard Series、SP2T、1.85mm、Latching、DC~67GHz、5V、Non Terminated、Negative common、Standard、Normal、Solder Pins.

◆ COAXIAL SWITCH

SPDT 18GHz Failsafe

◆ RF Characteristics

Frequency (GHz)	Ins.loss (dB)	Isolation (dB)	VSWR	RF Power CW (W)
DC-5	0.30	60	1.40	70
5-12	0.40	50	1.50	50
12-18	0.70	40	1.70	40



◆ Operating Voltage/Coil Current

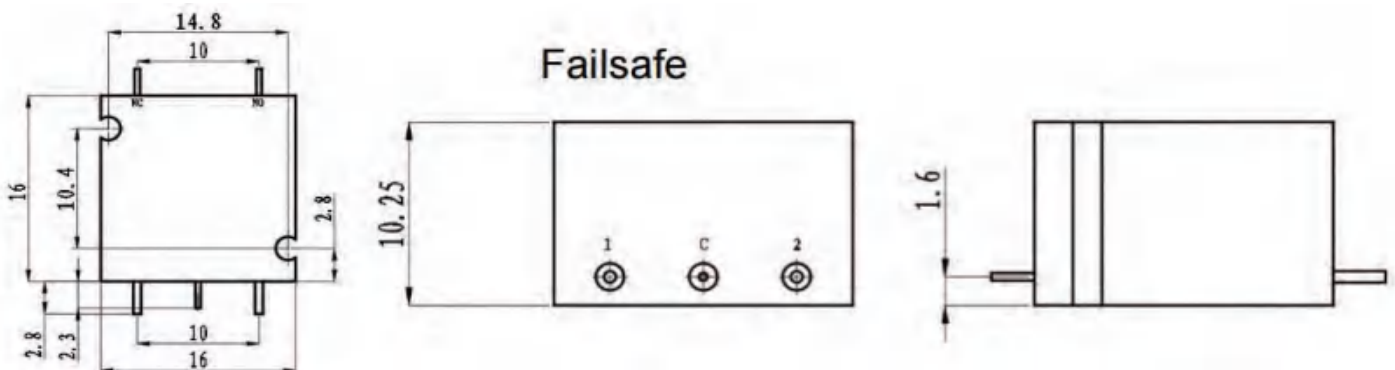
Operating Voltage(V)		12	24
Coil Current(mA)	Failsafe	170	90

* It can be selected according to user requirements

◆ Product Functions

- DC to 18GHz
- Low loss, Low VSWR
- Miniature
- RF connectors $\phi 0.45$ mm Pins

◆ Outline Drawing



◆ Specifications

Frequency Range: DC~18GHz

RF connectors: $\phi 0.45$ mm

Operating temperature: -25°C~65°C(Standard)
-45°C~85°C(Extended)

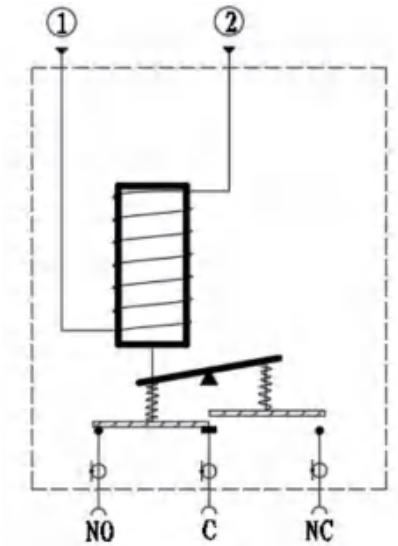
Mechanical Life Cycles: 1 million cycles

Switching Time: <15ms

Weight: 17g

Storage Temperature: -55°C~85°C

◆ Drive Circuit Diagram



◆ Truth Table

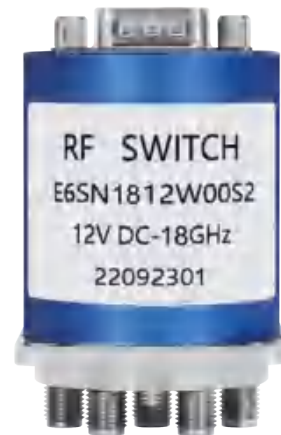
Switching Mode		RF Channel	Pin Definition
			Pin
			Encourage
Failsafe	NO TTL	C-NC	NC
		C-NO	1:VDC, 2:GND

◆ COAXIAL SWITCH

SP3T-6T 18GHz Normally open

◆ RF Characteristics

Frequency (GHz)	Ins.loss (dB)	Isolation (dB)	VSWR	RF Power CW (W)
DC-6	0.3	70	1.3	80
6-12	0.4	60	1.4	60
12-18	0.5	60	1.5	50



◆ Operating Voltage/Coil Current

Operating Voltage(V)		12	24	28
Coil Current (mA)	Normally open	300	150	140

* It can be selected according to user requirements

TTL	TTL Low(V)	TTL High	
	0-0.3	3~5V	1.4mA

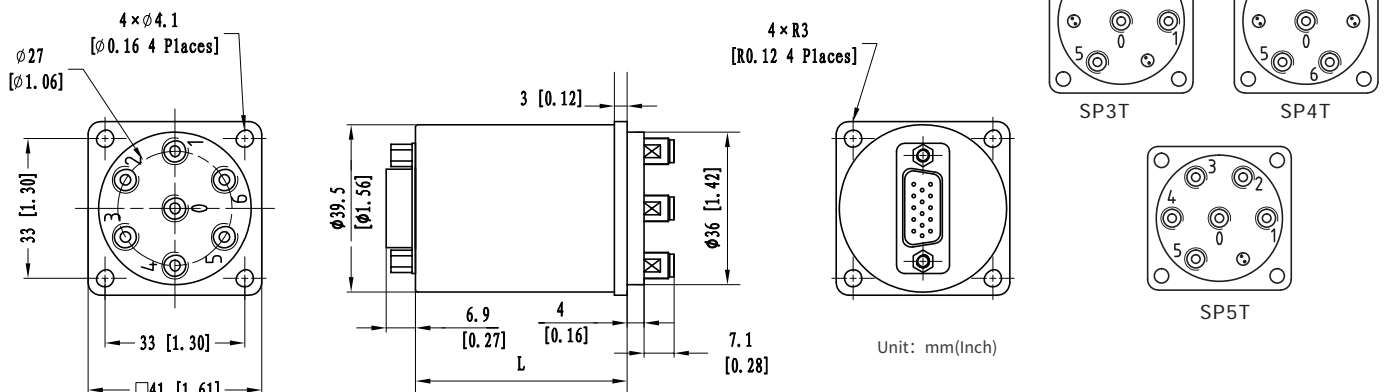
Indicators	Withstand Voltage V (max)	Current capacity mA(max)	Resistance Ω (max)
	50	100	15

* Connect VDC & GND before the function operates

◆ Product Functions

- DC to 18GHz
- Low loss, Low VSWR, High Isolation
- SMA Connector
- Selectable TTL driver control

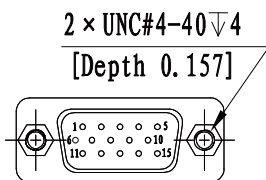
◆ Outline Drawing



L = 50(Non TTL/TTL/Indicators)

◆ Specifications

Switching Sequence: Break before Make	Mechanical Life Cycles: 2 million cycles	Mechanical Shock, Non-Operating: 50G, 1/2 Sine, 11 ms
Switching Time: 15ms max	RF Connectors: SMA Female	Vibration Operating: 20-2000 Hz, 10G RMS
Storage temperature: -55°C~85°C	Impedance: 50Ω	Actuator Terminals: Solder Pins/D-SUB 15Pin Male
Operating temperature: -25°C~65°C(Standard)		Weight: 140g
-45°C~85°C(Extended1)		
-55°C~85°C(Extended2)		

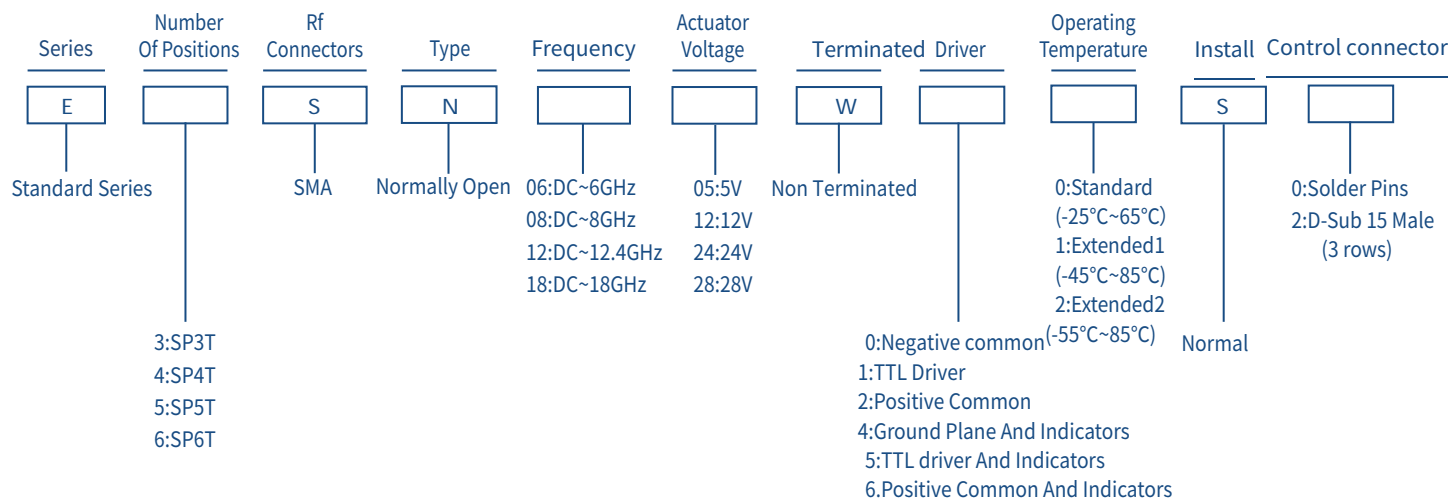


DB15 male

◆ Truth Table

Normally open Non TTL						Normally open TTL					
Actuator Terminals		RF Connector				Actuator Terminals		RF Connector			
D-SUB 15Pin Male						D-SUB 15Pin Male					
Pin No.	Define	SP3T	SP4T	SP5T	SP6T	Pin No.	Define	SP3T	SP4T	SP5T	SP6T
1	V1	RF 1-0	-	RF 1-0	RF 1-0	1	TTL	RF 1-0	-	RF 1-0	RF 1-0
2	V2	-	RF 2-0	RF 2-0	RF 2-0	2	TTL	-	RF 2-0	RF 2-0	RF 2-0
3	V3	RF 3-0	RF 3-0	RF 3-0	RF 3-0	3	TTL	RF 3-0	RF 3-0	RF 3-0	RF 3-0
4	V4	-	-	RF 4-0	RF 4-0	4	TTL	-	-	RF 4-0	RF 4-0
5	V5	RF 5-0	RF 5-0	RF 5-0	RF 5-0	5	TTL	RF 5-0	RF 5-0	RF 5-0	RF 5-0
6	V6	-	RF 6-0	-	RF 6-0	6	TTL	-	RF 6-0	-	RF 6-0
7	GND	-	-	-	-	7	VDC	-	-	-	-
8	Ind.1	RF 1-0	-	RF 1-0	RF 1-0	8	GND	-	-	-	-
9	Ind.2	-	RF 2-0	RF 2-0	RF 2-0	9	Ind.1	RF 1-0	-	RF 1-0	RF 1-0
10	Ind.3	RF 3-0	RF 3-0	RF 3-0	RF 3-0	10	Ind.2	-	RF 2-0	RF 2-0	RF 2-0
11	Ind.4	-	-	RF 4-0	RF 4-0	11	Ind.3	RF 3-0	RF 3-0	RF 3-0	RF 3-0
12	Ind.5	RF 5-0	RF 5-0	RF 5-0	RF 5-0	12	Ind.4	-	-	RF 4-0	RF 4-0
13	Ind.6	-	RF 6-0	-	RF 6-0	13	Ind.5	RF 5-0	RF 5-0	RF 5-0	RF 5-0
14	Ind.com	-	-	-	-	14	Ind.6	-	RF 6-0	-	RF 6-0
15	VDC	-	-	-	-	15	Ind.com	-	-	-	-

◆ Product Selection



★ EXP: E3SN0605W00S0: Standard Series、SP3T、SMA、Normally Open、DC~6GHz、5V、Non Terminated、Negative common、Standard、Normal、Solder Pins.

◆ COAXIAL SWITCH

SP3T-6T 26.5GHz Normally open

◆ RF Characteristics

Frequency (GHz)	Ins.loss (dB)	Isolation (dB)	VSWR	RF Power CW (W)
DC-6	0.3	70	1.3	80
6-12	0.4	60	1.4	60
12-18	0.5	60	1.5	50
18-26.5	0.6	55	1.6	15



◆ Operating Voltage/Coil Current

Operating Voltage(V)	12	24	28	
Coil Current (mA)	Normally open	300	150	140

* It can be selected according to user requirements

TTL	TTL Low(V)	TTL High	
	0-0.3	3~5V	1.4mA

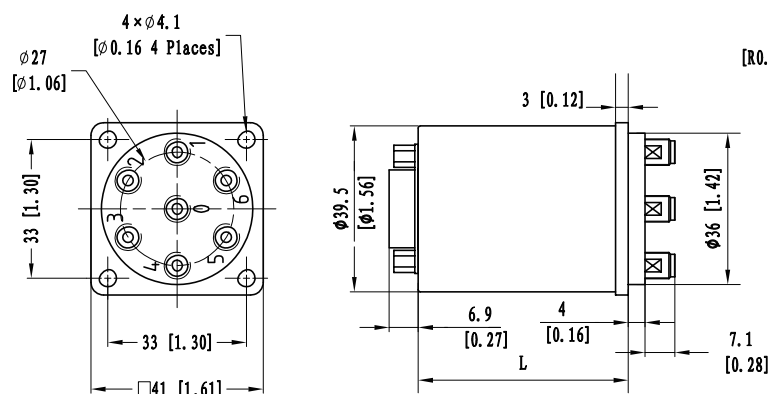
Indicators	Withstand Voltage V (max)	Current capacity mA(max)	Resistance Ω (max)
	50	100	15

* Connect VDC & GND before the function operates

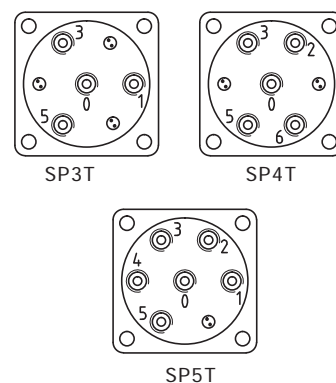
◆ Product Functions

- DC to 26.5GHz
- Low loss, Low VSWR, High Isolation
- SMA Connector
- Selectable TTL driver control

◆ Outline Drawing



L = 50(Non TTL/TTL/Indicators)



Unit: mm(Inch)

◆ Specifications

Switching Sequence: Break before Make

Mechanical Life Cycles: 2 million cycles

Mechanical Shock, Non-Operating: 50G, 1/2 Sine, 11 ms

Switching Time: 15ms max

RF Connectors: SMA Female

Vibration Operating: 20-2000 Hz, 10G RMS

Storage temperature: -55°C~85°C

Impedance: 50Ω

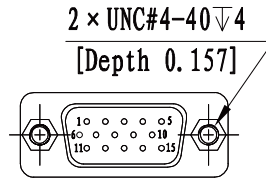
Actuator Terminals: Solder Pins/D-SUB 15Pin Male

Operating temperature: -25°C~65°C(Standard)

-45°C~85°C(Extended1)

-55°C~85°C(Extended2)

Weight: 140g

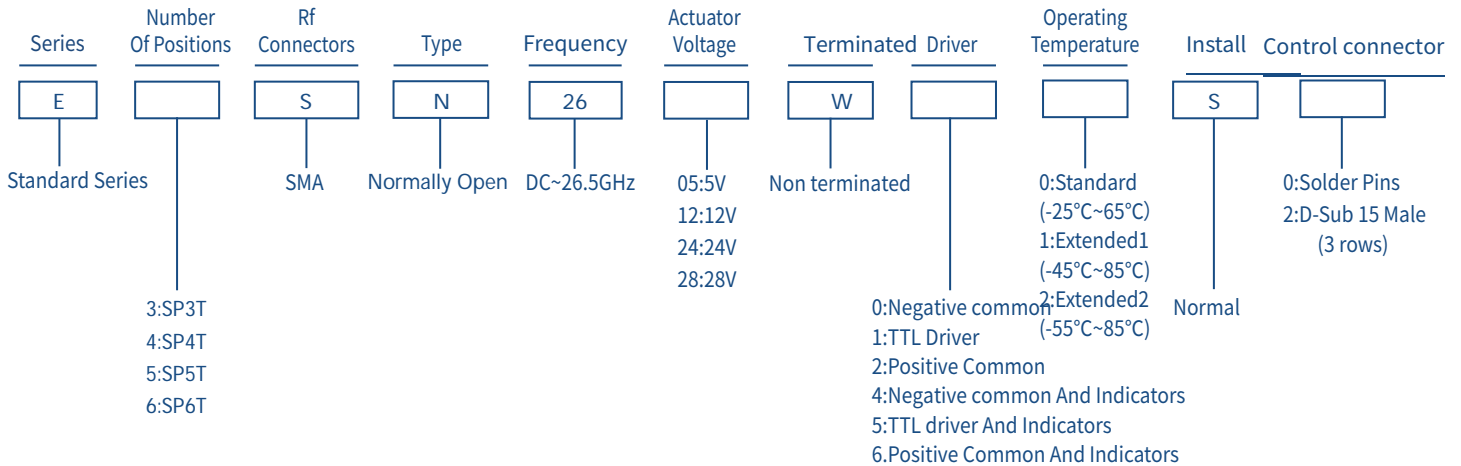


DB15 male

◆ Truth Table

Normally open Non TTL						Normally open TTL					
Actuator Terminals		RF Connector				Actuator Terminals		RF Connector			
D-SUB 15Pin Male						D-SUB 15Pin Male					
Pin No.	Define	SP3T	SP4T	SP5T	SP6T	Pin No.	Define	SP3T	SP4T	SP5T	SP6T
1	V1	RF 1-0	-	RF 1-0	RF 1-0	1	TTL	RF 1-0	-	RF 1-0	RF 1-0
2	V2	-	RF 2-0	RF 2-0	RF 2-0	2	TTL	-	RF 2-0	RF 2-0	RF 2-0
3	V3	RF 3-0	RF 3-0	RF 3-0	RF 3-0	3	TTL	RF 3-0	RF 3-0	RF 3-0	RF 3-0
4	V4	-	-	RF 4-0	RF 4-0	4	TTL	-	-	RF 4-0	RF 4-0
5	V5	RF 5-0	RF 5-0	RF 5-0	RF 5-0	5	TTL	RF 5-0	RF 5-0	RF 5-0	RF 5-0
6	V6	-	RF 6-0	-	RF 6-0	6	TTL	-	RF 6-0	-	RF 6-0
7	GND	-	-	-	-	7	VDC	-	-	-	-
8	Ind.1	RF 1-0	-	RF 1-0	RF 1-0	8	GND	-	-	-	-
9	Ind.2	-	RF 2-0	RF 2-0	RF 2-0	9	Ind.1	RF 1-0	-	RF 1-0	RF 1-0
10	Ind.3	RF 3-0	RF 3-0	RF 3-0	RF 3-0	10	Ind.2	-	RF 2-0	RF 2-0	RF 2-0
11	Ind.4	-	-	RF 4-0	RF 4-0	11	Ind.3	RF 3-0	RF 3-0	RF 3-0	RF 3-0
12	Ind.5	RF 5-0	RF 5-0	RF 5-0	RF 5-0	12	Ind.4	-	-	RF 4-0	RF 4-0
13	Ind.6	-	RF 6-0	-	RF 6-0	13	Ind.5	RF 5-0	RF 5-0	RF 5-0	RF 5-0
14	Ind.com	-	-	-	-	14	Ind.6	-	RF 6-0	-	RF 6-0
15	VDC	-	-	-	-	15	Ind.com	-	-	-	-

◆ Product Selection



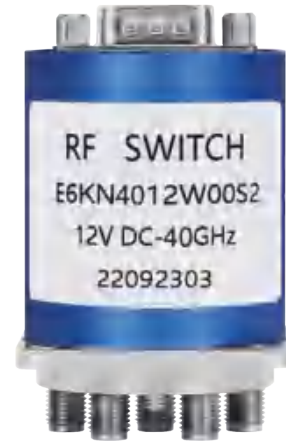
★ EXP: E3SN2605W00S0: Standard Series, SP3T, SMA, Normally Open, DC-26.5GHz, 5V, Non Terminated, Negative common, Standard, Normal, Solder Pins.

◆ COAXIAL SWITCH

SP3T-6T 40GHz Normally open

◆ RF Characteristics

Frequency (GHz)	Ins.loss (dB)	Isolation (dB)	VSWR	RF Power CW (W)
DC-6	0.3	70	1.3	40
6-12	0.4	70	1.4	30
12-18	0.5	60	1.5	25
18-26.5	0.7	55	1.7	12
26.5-32	0.8	50	1.8	8
32-40	0.9	50	1.9	5



◆ Operating Voltage/Coil Current

Operating Voltage(V)	12	24	28	
Coil Current (mA)	Normally open	300	150	140

* It can be selected according to user requirements

TTL	TTL Low(V)	TTL High	
	0-0.3	3~5V	1.4mA

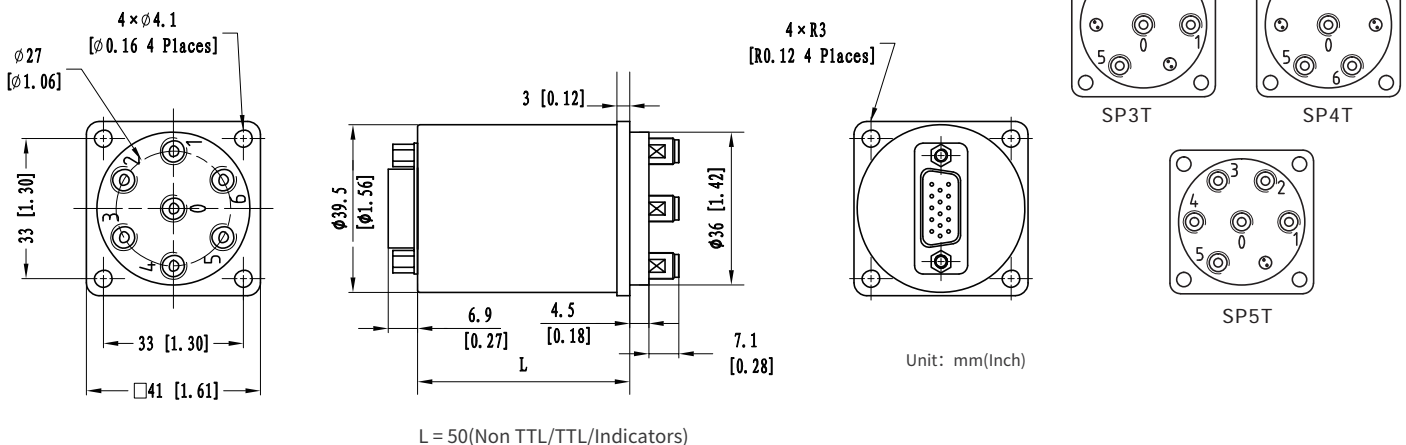
Indicators	Withstand Voltage V (max)	Current capacity mA(max)	Resistance Ω (max)
	50	100	15

* Connect VDC & GND before the function operates

◆ Product Functions

- DC to 40GHz
- Low loss, Low VSWR, High Isolation
- 2.92 Connector
- Selectable TTL driver control

◆ Outline Drawing

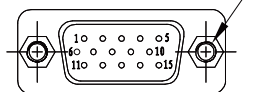


◆ Specifications

Switching Sequence: Break before Make	Mechanical Life Cycles: 2 million cycles	Mechanical Shock, Non-Operating: 50G, 1/2 Sine, 11 ms
Switching Time: 15ms max	RF Connectors: 2.92 Female	Vibration Operating: 20-2000 Hz, 10G RMS
Storage temperature: -55°C~85°C	Impedance: 50Ω	Actuator Terminals: Solder Pins/D-SUB 15Pin Male
Operating temperature: -25°C~65°C(Standard)		Weight: 140g
-45°C~85°C(Extended1)		
-55°C~85°C(Extended2)		

2 × UNC#4-40▽4

[Depth 0.157]

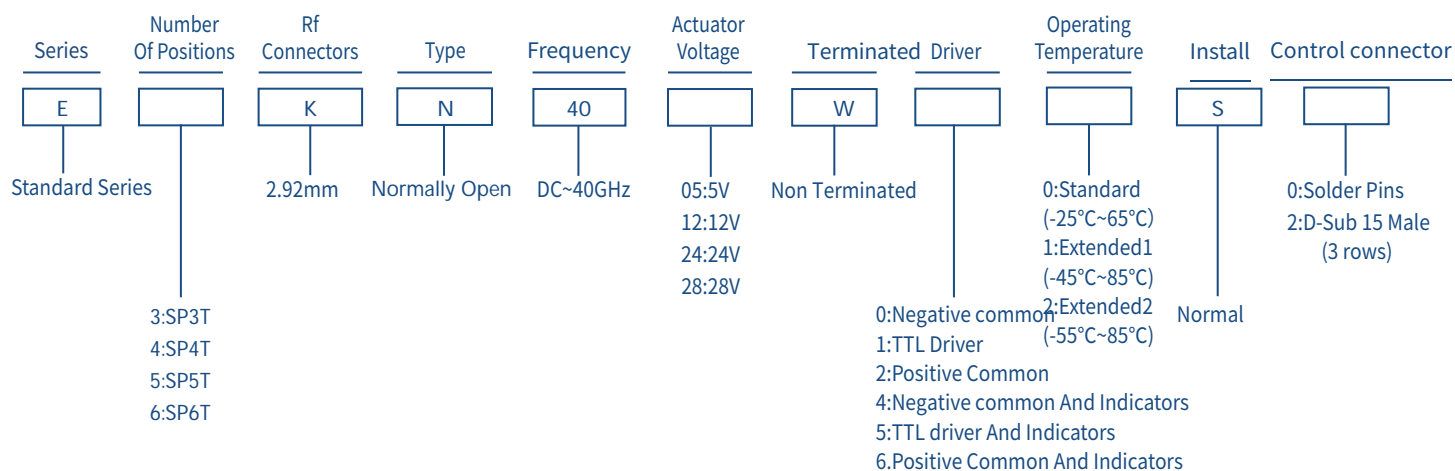


DB15 male

◆ Truth Table

Normally open Non TTL						Normally open TTL					
Actuator Terminals		RF Connector				Actuator Terminals		RF Connector			
D-SUB 15Pin Male						D-SUB 15Pin Male					
Pin No.	Define	SP3T	SP4T	SP5T	SP6T	Pin No.	Define	SP3T	SP4T	SP5T	SP6T
1	V1	RF 1-0	-	RF 1-0	RF 1-0	1	TTL	RF 1-0	-	RF 1-0	RF 1-0
2	V2	-	RF 2-0	RF 2-0	RF 2-0	2	TTL	-	RF 2-0	RF 2-0	RF 2-0
3	V3	RF 3-0	RF 3-0	RF 3-0	RF 3-0	3	TTL	RF 3-0	RF 3-0	RF 3-0	RF 3-0
4	V4	-	-	RF 4-0	RF 4-0	4	TTL	-	-	RF 4-0	RF 4-0
5	V5	RF 5-0	RF 5-0	RF 5-0	RF 5-0	5	TTL	RF 5-0	RF 5-0	RF 5-0	RF 5-0
6	V6	-	RF 6-0	-	RF 6-0	6	TTL	-	RF 6-0	-	RF 6-0
7	GND	-	-	-	-	7	VDC	-	-	-	-
8	Ind.1	RF 1-0	-	RF 1-0	RF 1-0	8	GND	-	-	-	-
9	Ind.2	-	RF 2-0	RF 2-0	RF 2-0	9	Ind.1	RF 1-0	-	RF 1-0	RF 1-0
10	Ind.3	RF 3-0	RF 3-0	RF 3-0	RF 3-0	10	Ind.2	-	RF 2-0	RF 2-0	RF 2-0
11	Ind.4	-	-	RF 4-0	RF 4-0	11	Ind.3	RF 3-0	RF 3-0	RF 3-0	RF 3-0
12	Ind.5	RF 5-0	RF 5-0	RF 5-0	RF 5-0	12	Ind.4	-	-	RF 4-0	RF 4-0
13	Ind.6	-	RF 6-0	-	RF 6-0	13	Ind.5	RF 5-0	RF 5-0	RF 5-0	RF 5-0
14	Ind.com	-	-	-	-	14	Ind.6	-	RF 6-0	-	RF 6-0
15	VDC	-	-	-	-	15	Ind.com	-	-	-	-

◆ Product Selection



★ EXP: E3KN4005W00S0: Standard Series, SP3T, 2.92mm, Normally Open, DC~40GHz, 5V, Non Terminated, Negative common, Standard, Normal, Solder Pins.

◆ COAXIAL SWITCH

SP3T-6T 43.5GHz Normally open

◆ RF Characteristics

Frequency (GHz)	Ins.loss (dB)	Isolation (dB)	VSWR	RF Power CW (W)
DC-6	0.3	70	1.3	40
6-12	0.4	70	1.4	30
12-18	0.5	60	1.5	25
18-26.5	0.7	55	1.7	12
26.5-32	0.8	50	1.8	8
32-40	0.9	50	1.9	5
40-43.5	1.0	50	2.0	4



◆ Operating Voltage/Coil Current

Operating Voltage(V)	12	24	28	
Coil Current (mA)	Normally open	300	150	140

* It can be selected according to user requirements

TTL	TTL Low(V)	TTL High	
	0-0.3	3~5V	1.4mA

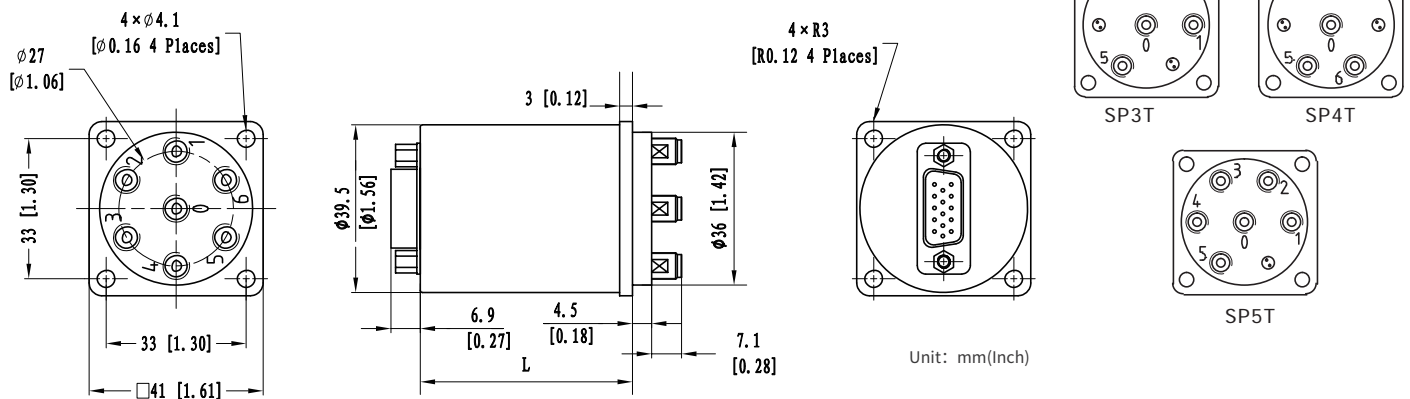
Indicators	Withstand Voltage V (max)	Current capacity mA(max)	Resistance Ω (max)
	50	100	15

* Connect VDC & GND before the function operates

◆ Product Functions

- DC to 43.5GHz
- Low loss, Low VSWR, High Isolation
- 2.92 Connector
- Selectable TTL driver control

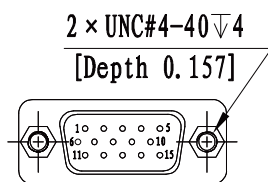
◆ Outline Drawing



L = 50(Non TTL/TTL/Indicators)

◆ Specifications

Switching Sequence: Break before Make	Mechanical Life Cycles: 2 million cycles	Mechanical Shock, Non-Operating: 50G, 1/2 Sine, 11 ms
Switching Time: 15ms max	RF Connectors: 2.92 Female	Vibration Operating: 20-2000 Hz, 10G RMS
Storage temperature: -55°C~85°C	Impedance: 50Ω	Actuator Terminals: Solder Pins/D-SUB 15Pin Male
Operating temperature: -25°C~65°C(Standard)		Weight: 140g
-45°C~85°C(Extended1)		
-55°C~85°C(Extended2)		

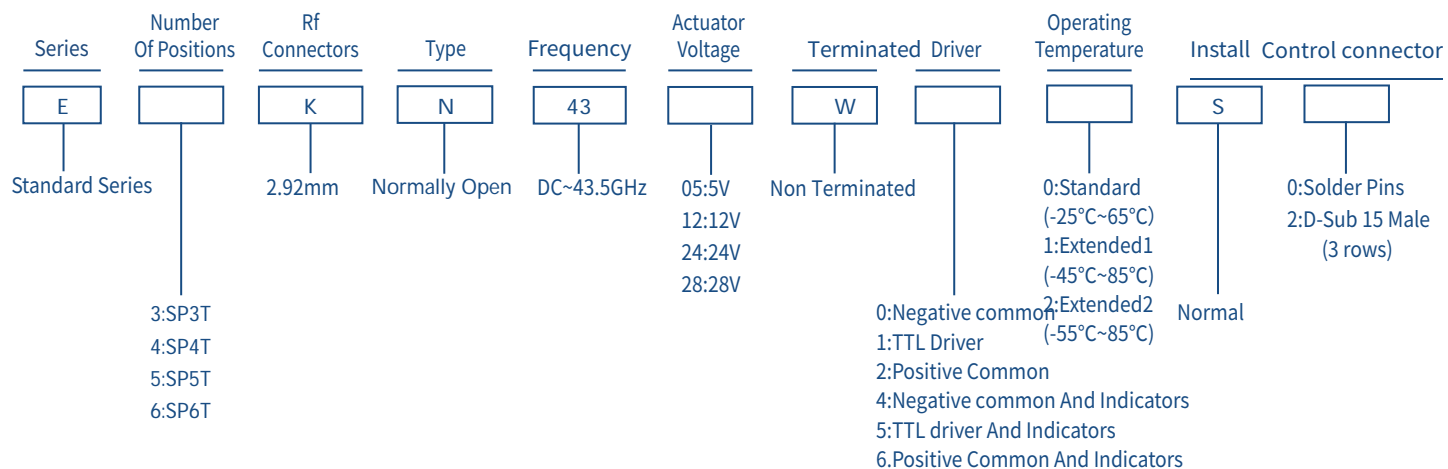


DB15 male

◆ Truth Table

Normally open Non TTL						Normally open TTL					
Actuator Terminals		RF Connector				Actuator Terminals		RF Connector			
D-SUB 15Pin Male						D-SUB 15Pin Male					
Pin No.	Define	SP3T	SP4T	SP5T	SP6T	Pin No.	Define	SP3T	SP4T	SP5T	SP6T
1	V1	RF 1-0	-	RF 1-0	RF 1-0	1	TTL	RF 1-0	-	RF 1-0	RF 1-0
2	V2	-	RF 2-0	RF 2-0	RF 2-0	2	TTL	-	RF 2-0	RF 2-0	RF 2-0
3	V3	RF 3-0	RF 3-0	RF 3-0	RF 3-0	3	TTL	RF 3-0	RF 3-0	RF 3-0	RF 3-0
4	V4	-	-	RF 4-0	RF 4-0	4	TTL	-	-	RF 4-0	RF 4-0
5	V5	RF 5-0	RF 5-0	RF 5-0	RF 5-0	5	TTL	RF 5-0	RF 5-0	RF 5-0	RF 5-0
6	V6	-	RF 6-0	-	RF 6-0	6	TTL	-	RF 6-0	-	RF 6-0
7	GND	-	-	-	-	7	VDC	-	-	-	-
8	Ind.1	RF 1-0	-	RF 1-0	RF 1-0	8	GND	-	-	-	-
9	Ind.2	-	RF 2-0	RF 2-0	RF 2-0	9	Ind.1	RF 1-0	-	RF 1-0	RF 1-0
10	Ind.3	RF 3-0	RF 3-0	RF 3-0	RF 3-0	10	Ind.2	-	RF 2-0	RF 2-0	RF 2-0
11	Ind.4	-	-	RF 4-0	RF 4-0	11	Ind.3	RF 3-0	RF 3-0	RF 3-0	RF 3-0
12	Ind.5	RF 5-0	RF 5-0	RF 5-0	RF 5-0	12	Ind.4	-	-	RF 4-0	RF 4-0
13	Ind.6	-	RF 6-0	-	RF 6-0	13	Ind.5	RF 5-0	RF 5-0	RF 5-0	RF 5-0
14	Ind.com	-	-	-	-	14	Ind.6	-	RF 6-0	-	RF 6-0
15	VDC	-	-	-	-	15	Ind.com	-	-	-	-

◆ 产品选型



★ EXP: E3KN4305W00S0: Standard Series、SP3T、2.92mm、Normally Open、DC~43.5GHz、5V、Non Terminated、Negative common、Standard、Normal、Solder Pins.

◆ COAXIAL SWITCH

SP3T-6T 50GHz Normally open

◆ RF Characteristics

Frequency (GHz)	Ins.loss (dB)	Isolation (dB)	VSWR	RF Power CW (W)
DC-6	0.3	70	1.3	40
6-12	0.4	70	1.4	30
12-18	0.5	60	1.5	25
18-26.5	0.7	55	1.7	12
26.5-32	0.8	50	1.8	8
32-40	0.9	50	1.9	5
40-43	1.0	50	2.0	4
43-50	1.2	50	2.2	3



◆ Operating Voltage/Coil Current

Operating Voltage(V)		12	24	28
Coil Current (mA)	Normally open	300	150	140

* It can be selected according to user requirements

TTL	TTL Low(V)	TTL High	
	0-0.3	3~5V	1.4mA

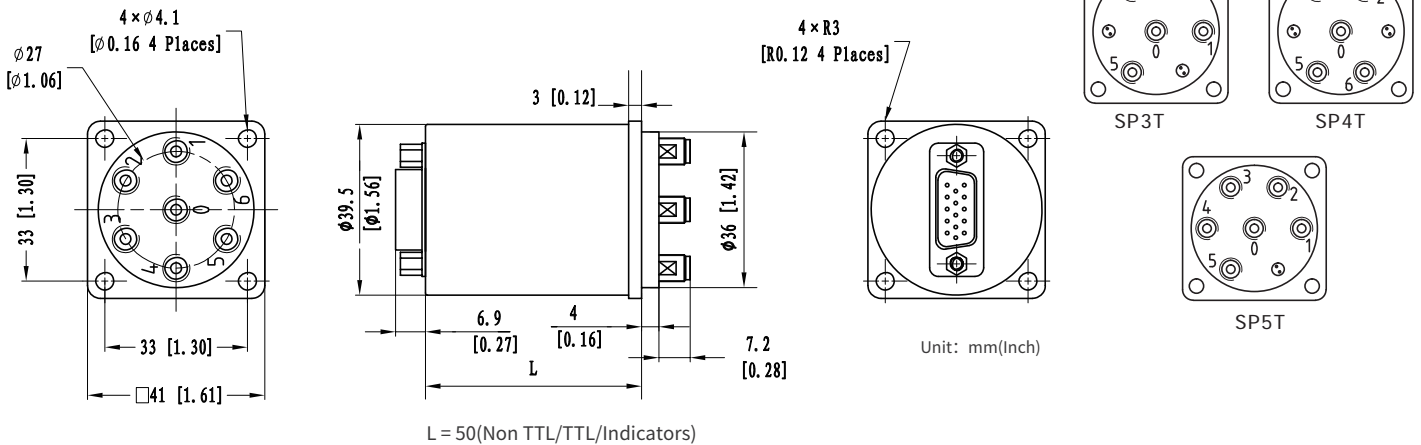
Indicators	Withstand Voltage V (max)	Current capacity mA (max)	Resistance Ω (max)
	50	100	15

* Connect VDC & GND before the function operates

◆ Product Functions

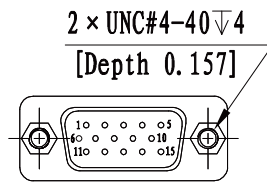
- DC to 50GHz
- Low loss, Low VSWR, High Isolation
- 1.85 Connector
- Selectable TTL driver control

◆ Outline Drawing



◆ Specifications

Switching Sequence: Break before Make	Mechanical Life Cycles: 2 million cycles	Mechanical Shock, Non-Operating: 50G, 1/2 Sine, 11 ms
Switching Time: 15ms max	RF Connectors: 1.85 Female	Vibration Operating: 20-2000 Hz, 10G RMS
Storage temperature: -55°C~85°C	Impedance: 50Ω	Actuator Terminals: Solder Pins/D-SUB 15Pin Male
Operating temperature: -25°C~65°C(Standard)		Weight: 140g
-45°C~85°C(Extended1)		
-55°C~85°C(Extended2)		

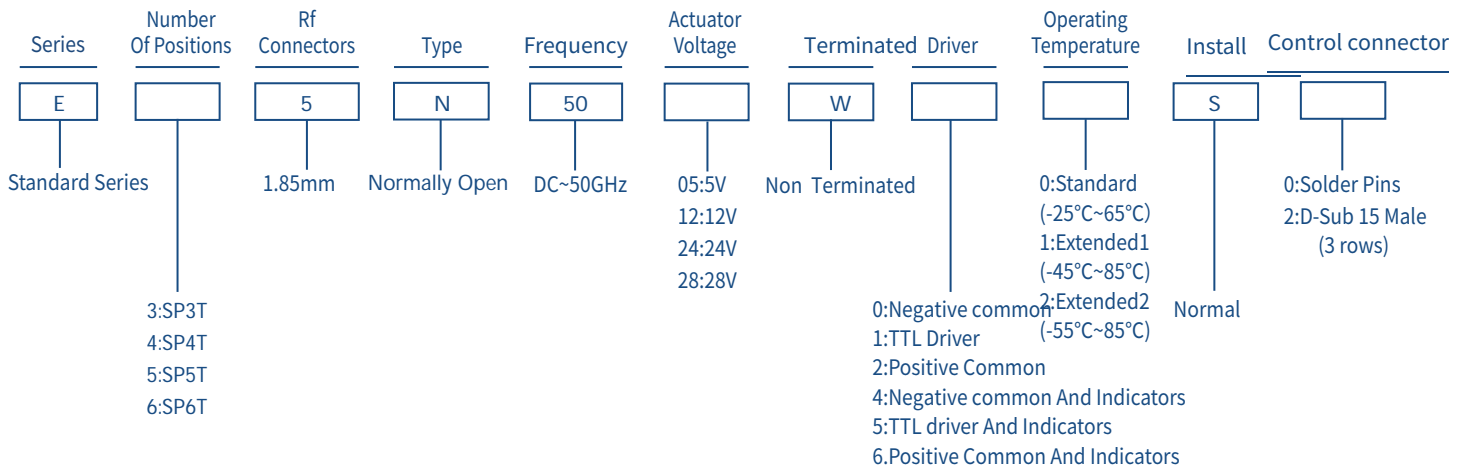


DB15 male

◆ Truth Table

Normally open Non TTL						Normally open TTL					
Actuator Terminals		RF Connector				Actuator Terminals		RF Connector			
D-SUB 15Pin Male						D-SUB 15Pin Male					
Pin No.	Define	SP3T	SP4T	SP5T	SP6T	Pin No.	Define	SP3T	SP4T	SP5T	SP6T
1	V1	RF 1-0	-	RF 1-0	RF 1-0	1	TTL	RF 1-0	-	RF 1-0	RF 1-0
2	V2	-	RF 2-0	RF 2-0	RF 2-0	2	TTL	-	RF 2-0	RF 2-0	RF 2-0
3	V3	RF 3-0	RF 3-0	RF 3-0	RF 3-0	3	TTL	RF 3-0	RF 3-0	RF 3-0	RF 3-0
4	V4	-	-	RF 4-0	RF 4-0	4	TTL	-	-	RF 4-0	RF 4-0
5	V5	RF 5-0	RF 5-0	RF 5-0	RF 5-0	5	TTL	RF 5-0	RF 5-0	RF 5-0	RF 5-0
6	V6	-	RF 6-0	-	RF 6-0	6	TTL	-	RF 6-0	-	RF 6-0
7	GND	-	-	-	-	7	VDC	-	-	-	-
8	Ind.1	RF 1-0	-	RF 1-0	RF 1-0	8	GND	-	-	-	-
9	Ind.2	-	RF 2-0	RF 2-0	RF 2-0	9	Indicators	RF 1-0	-	RF 1-0	RF 1-0
10	Ind.3	RF 3-0	RF 3-0	RF 3-0	RF 3-0	10		-	RF 2-0	RF 2-0	RF 2-0
11	Ind.4	-	-	RF 4-0	RF 4-0	11		RF 3-0	RF 3-0	RF 3-0	RF 3-0
12	Ind.5	RF 5-0	RF 5-0	RF 5-0	RF 5-0	12		-	-	RF 4-0	RF 4-0
13	Ind.6	-	RF 6-0	-	RF 6-0	13		RF 5-0	RF 5-0	RF 5-0	RF 5-0
14	Ind.com	-	-	-	-	14		-	RF 6-0	-	RF 6-0
15	VDC	-	-	-	-	15	Ind.com	-	-	-	-

◆ Product Selection



★ EXP: E35N5005W00S0: Standard Series, SP3T, 1.85mm, Normally Open, DC~50GHz, 5V, Non Terminated, Negative common, Standard, Normal, Solder Pins.

◆ COAXIAL SWITCH

SP3T-6T 53GHz Normally open

◆ RF Characteristics

Frequency (GHz)	Ins.loss (dB)	Isolation (dB)	VSWR	RF Power CW (W)
DC-6	0.3	70	1.3	40
6-12	0.4	70	1.4	30
12-18	0.5	60	1.5	25
18-26.5	0.7	55	1.7	12
26.5-32	0.8	50	1.8	8
32-40	0.9	50	1.9	5
40-43	1.0	50	2.0	4
43-50	1.2	50	2.2	3
50-53	1.3	50	2.2	2



◆ Operating Voltage/Coil Current

Operating Voltage(V)	12	24	28	
Coil Current (mA)	Normally open	300	150	140

* It can be selected according to user requirements

TTL	TTL Low(V)	TTL High	
	0-0.3	3~5V	1.4mA

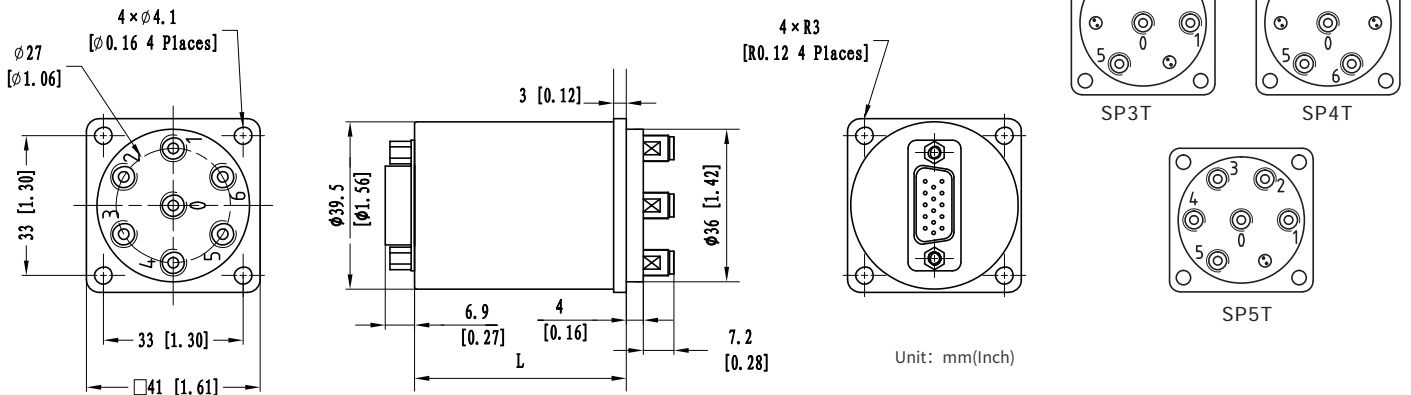
Indicators	Withstand Voltage V (max)	Current capacity mA(max)	Resistance Ω (max)
	50	100	15

* Connect VDC & GND before the function operates

◆ Product Functions

- DC to 53GHz
- Low loss, Low VSWR, High Isolation
- 1.85 Connector
- Selectable TTL driver control

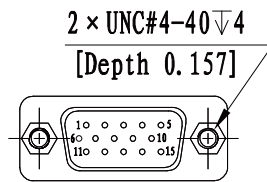
◆ Outline Drawing



L = 50(Non TTL/TTL/Indicators)

◆ Specifications

Switching Sequence: Break before Make	Mechanical Life Cycles: 2 million cycles	Mechanical Shock, Non-Operating: 50G, 1/2 Sine, 11 ms
Switching Time: 15ms max	RF Connectors: 1.85 Female	Vibration Operating: 20-2000 Hz, 10G RMS
Storage temperature: -55°C~85°C	Impedance: 50Ω	Actuator Terminals: Solder Pins/D-SUB 15Pin Male
Operating temperature: -25°C~65°C(Standard)		Weight: 140g
-45°C~85°C(Extended1)		
-55°C~85°C(Extended2)		

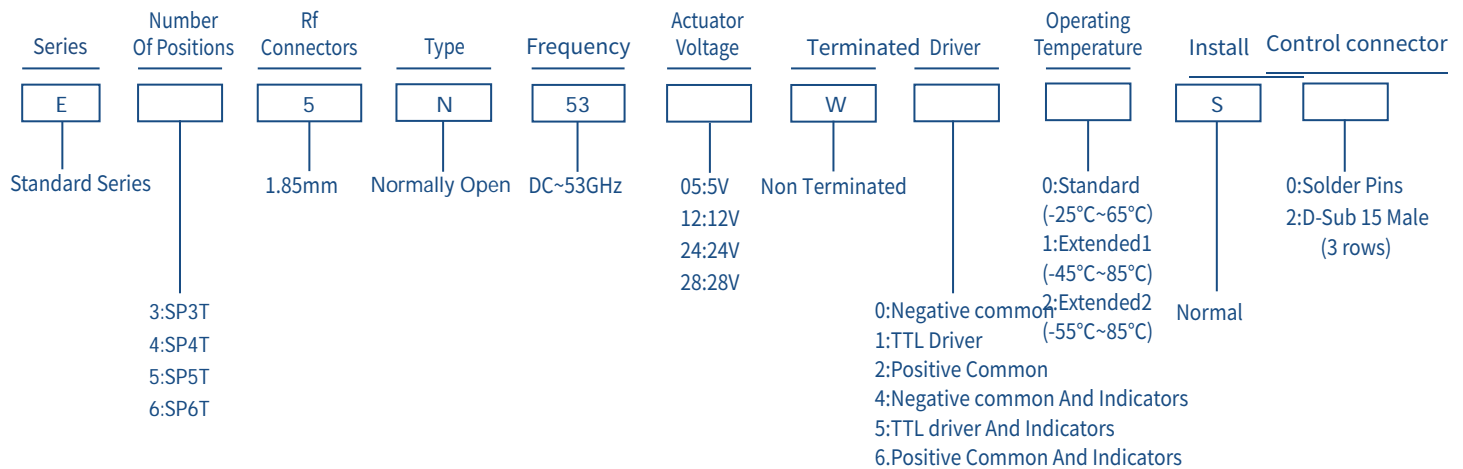


DB15 male

◆ Truth Table

Normally open Non TTL						Normally open TTL					
Actuator Terminals		RF Connector				Actuator Terminals		RF Connector			
D-SUB 15Pin Male		SP3T	SP4T	SP5T	SP6T	D-SUB 15Pin Male		SP3T	SP4T	SP5T	SP6T
Pin No.	Define	SP3T	SP4T	SP5T	SP6T	Pin No.	Define	SP3T	SP4T	SP5T	SP6T
1	V1	RF 1-0	-	RF 1-0	RF 1-0	1	TTL	RF 1-0	-	RF 1-0	RF 1-0
2	V2	-	RF 2-0	RF 2-0	RF 2-0	2	TTL	-	RF 2-0	RF 2-0	RF 2-0
3	V3	RF 3-0	RF 3-0	RF 3-0	RF 3-0	3	TTL	RF 3-0	RF 3-0	RF 3-0	RF 3-0
4	V4	-	-	RF 4-0	RF 4-0	4	TTL	-	-	RF 4-0	RF 4-0
5	V5	RF 5-0	RF 5-0	RF 5-0	RF 5-0	5	TTL	RF 5-0	RF 5-0	RF 5-0	RF 5-0
6	V6	-	RF 6-0	-	RF 6-0	6	TTL	-	RF 6-0	-	RF 6-0
7	GND	-	-	-	-	7	VDC	-	-	-	-
8	Ind.1	RF 1-0	-	RF 1-0	RF 1-0	8	GND	-	-	-	-
9	Ind.2	-	RF 2-0	RF 2-0	RF 2-0	9	Ind.1	RF 1-0	-	RF 1-0	RF 1-0
10	Ind.3	RF 3-0	RF 3-0	RF 3-0	RF 3-0	10	Ind.2	-	RF 2-0	RF 2-0	RF 2-0
11	Ind.4	-	-	RF 4-0	RF 4-0	11	Ind.3	RF 3-0	RF 3-0	RF 3-0	RF 3-0
12	Ind.5	RF 5-0	RF 5-0	RF 5-0	RF 5-0	12	Ind.4	-	-	RF 4-0	RF 4-0
13	Ind.6	-	RF 6-0	-	RF 6-0	13	Ind.5	RF 5-0	RF 5-0	RF 5-0	RF 5-0
14	Ind.com	-	-	-	-	14	Ind.6	-	RF 6-0	-	RF 6-0
15	VDC	-	-	-	-	15	Ind.com	-	-	-	-

◆ Product Selection



★ EXP: E35N5305W00S0: Standard Series、SP3T、1.85mm、Normally Open、DC~53GHz、5V、Non Terminated、Negative common、Standard、Normal、Solder Pins.

◆ COAXIAL SWITCH

mini SP3T-6T 18GHz Normally open

◆ RF Characteristics

Frequency (GHz)	Ins.loss (dB)	Isolation (dB)	VSWR	RF Power CW (W)
DC-6	0.3	70	1.3	80
6-12	0.4	60	1.4	60
12-18	0.5	60	1.5	50



◆ Operating Voltage/Coil Current

Operating Voltage(V)	12	24	28	
Coil Current (mA)	Normally open	300	150	140

* It can be selected according to user requirements

TTL	TTL Low(V)	TTL High	
	0-0.3	3~5V	1.4mA

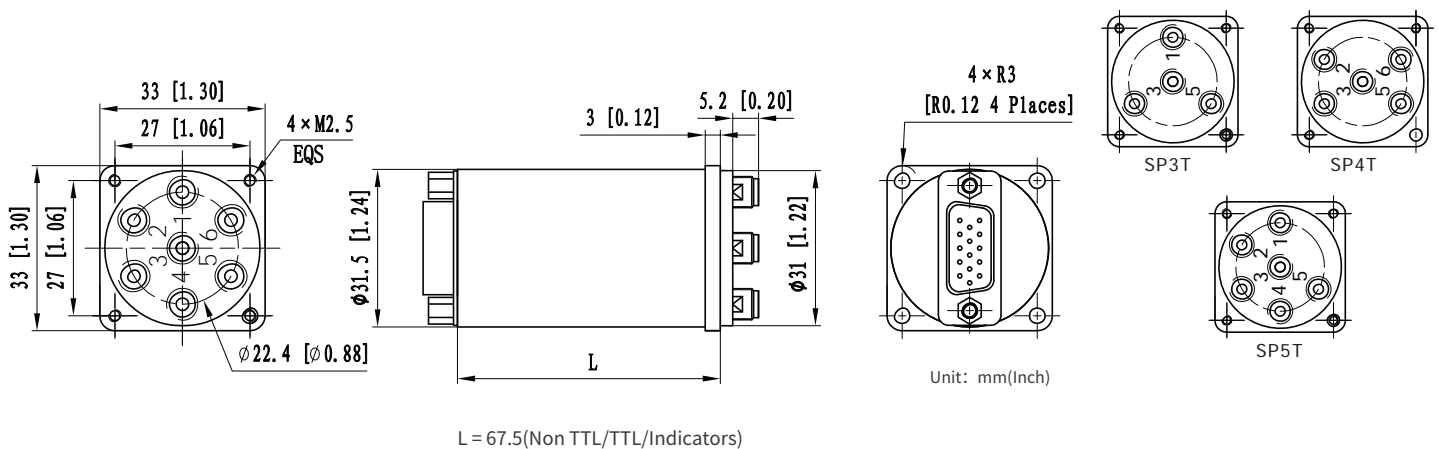
Indicators	Withstand Voltage V (max)	Current capacity mA(max)	Resistance Ω (max)
	50	100	15

* Connect VDC & GND before the function operates

◆ Product Functions

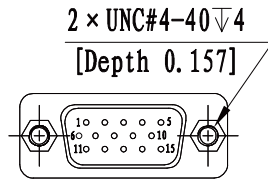
- DC to 18GHz
- Low loss, Low VSWR, High Isolation
- SMA Connector
- Selectable TTL driver control
- Miniaturization

◆ Outline Drawing



◆ Specifications

Switching Sequence: Break before Make	Mechanical Life Cycles: 2 million cycles	Mechanical Shock, Non-Operating: 50G, 1/2 Sine, 11 ms
Switching Time: 15ms max	RF Connectors: SMA Female	Vibration Operating: 20-2000 Hz, 10G RMS
Storage temperature: -55°C~85°C	Impedance: 50Ω	Actuator Terminals: Solder Pins/D-SUB 15Pin Male
Operating temperature: -25°C~65°C(Standard)		Weight: 120g
-45°C~85°C(Extended1)		
-55°C~85°C(Extended2)		

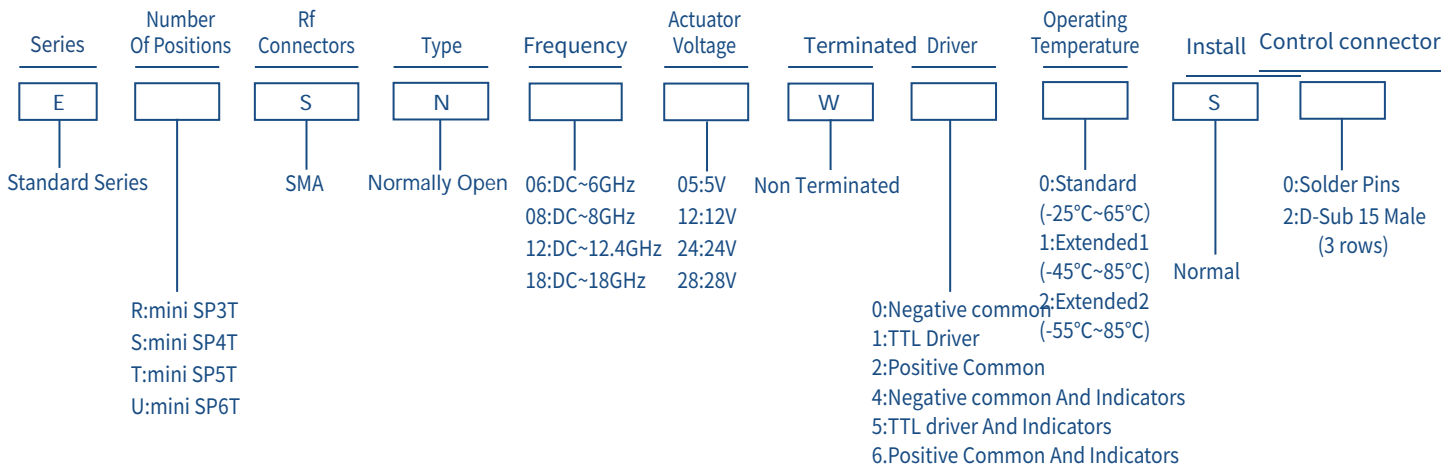


DB15 male

◆ Truth Table

Normally open Non TTL						Normally open TTL					
Actuator Terminals		RF Connector				Actuator Terminals		RF Connector			
D-SUB 15Pin Male						D-SUB 15Pin Male					
Pin No.	Define	SP3T	SP4T	SP5T	SP6T	Pin No.	Define	SP3T	SP4T	SP5T	SP6T
1	V1	RF 1-0	-	RF 1-0	RF 1-0	1	TTL	RF 1-0	-	RF 1-0	RF 1-0
2	V2	-	RF 2-0	RF 2-0	RF 2-0	2	TTL	-	RF 2-0	RF 2-0	RF 2-0
3	V3	RF 3-0	RF 3-0	RF 3-0	RF 3-0	3	TTL	RF 3-0	RF 3-0	RF 3-0	RF 3-0
4	V4	-	-	RF 4-0	RF 4-0	4	TTL	-	-	RF 4-0	RF 4-0
5	V5	RF 5-0	RF 5-0	RF 5-0	RF 5-0	5	TTL	RF 5-0	RF 5-0	RF 5-0	RF 5-0
6	V6	-	RF 6-0	-	RF 6-0	6	TTL	-	RF 6-0	-	RF 6-0
7	GND	-	-	-	-	7	VDC	-	-	-	-
8	Ind.1	RF 1-0	-	RF 1-0	RF 1-0	8	GND	-	-	-	-
9	Ind.2	-	RF 2-0	RF 2-0	RF 2-0	9	Ind.1	RF 1-0	-	RF 1-0	RF 1-0
10	Ind.3	RF 3-0	RF 3-0	RF 3-0	RF 3-0	10	Ind.2	-	RF 2-0	RF 2-0	RF 2-0
11	Ind.4	-	-	RF 4-0	RF 4-0	11	Ind.3	RF 3-0	RF 3-0	RF 3-0	RF 3-0
12	Ind.5	RF 5-0	RF 5-0	RF 5-0	RF 5-0	12	Ind.4	-	-	RF 4-0	RF 4-0
13	Ind.6	-	RF 6-0	-	RF 6-0	13	Ind.5	RF 5-0	RF 5-0	RF 5-0	RF 5-0
14	Ind.com	-	-	-	-	14	Ind.6	-	RF 6-0	-	RF 6-0
15	VDC	-	-	-	-	15	Ind.com	-	-	-	-

◆ Product Selection



★ EXP: ERSN0605W00S0: Standard Series、Mini SP3T、SMA、Normally Open、DC~6GHz、5V、Non Terminated、Negative common、Standard、Normal、Solder Pins.

◆ COAXIAL SWITCH

mini SP3T-6T 26.5GHz Normally open

◆ RF Characteristics

Frequency (GHz)	Ins.loss (dB)	Isolation (dB)	VSWR	RF Power CW (W)
DC-6	0.3	70	1.3	80
6-12	0.4	60	1.4	60
12-18	0.5	60	1.5	50
18-26.5	0.6	55	1.6	15



◆ Operating Voltage/Coil Current

Operating Voltage(V)	12	24	28	
Coil Current (mA)	Normally open	300	150	140

* It can be selected according to user requirements

TTL	TTL Low(V)	TTL High	
	0-0.3	3~5V	1.4mA

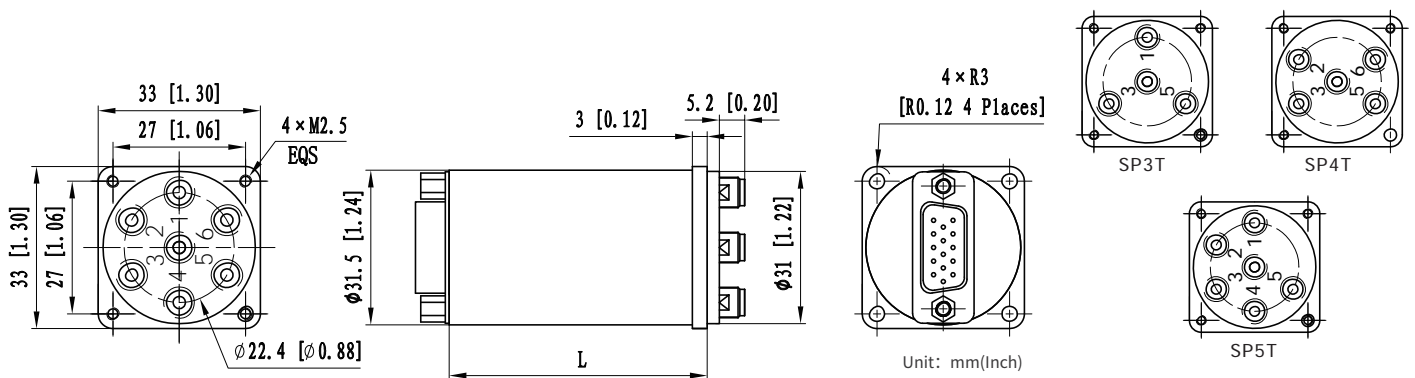
Indicators	Withstand Voltage V (max)	Current capacity mA(max)	Resistance Ω (max)
	50	100	15

* Connect VDC & GND before the function operates

◆ Product Functions

- DC to 26.5GHz
- Low loss, Low VSWR, High Isolation
- SMA Connector
- Selectable TTL driver control
- Miniaturization

◆ Outline Drawing

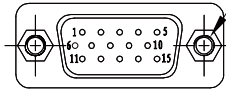


L = 67.5(Non TTL/TTL/Indicators)

◆ Specifications

Switching Sequence: Break before Make	Mechanical Life Cycles: 2 million cycles	Mechanical Shock, Non-Operating: 50G, 1/2 Sine, 11 ms
Switching Time: 15ms max	RF Connectors: SMA Female	Vibration Operating: 20-2000 Hz, 10G RMS
Storage temperature: -55°C~85°C	Impedance: 50Ω	Actuator Terminals: Solder Pins/D-SUB 15Pin Male
Operating temperature: -25°C~65°C(Standard)		Weight: 120g
-45°C~85°C(Extended1)		
-55°C~85°C(Extended2)		

2 × UNC#4-40▽4
[Depth 0.157]

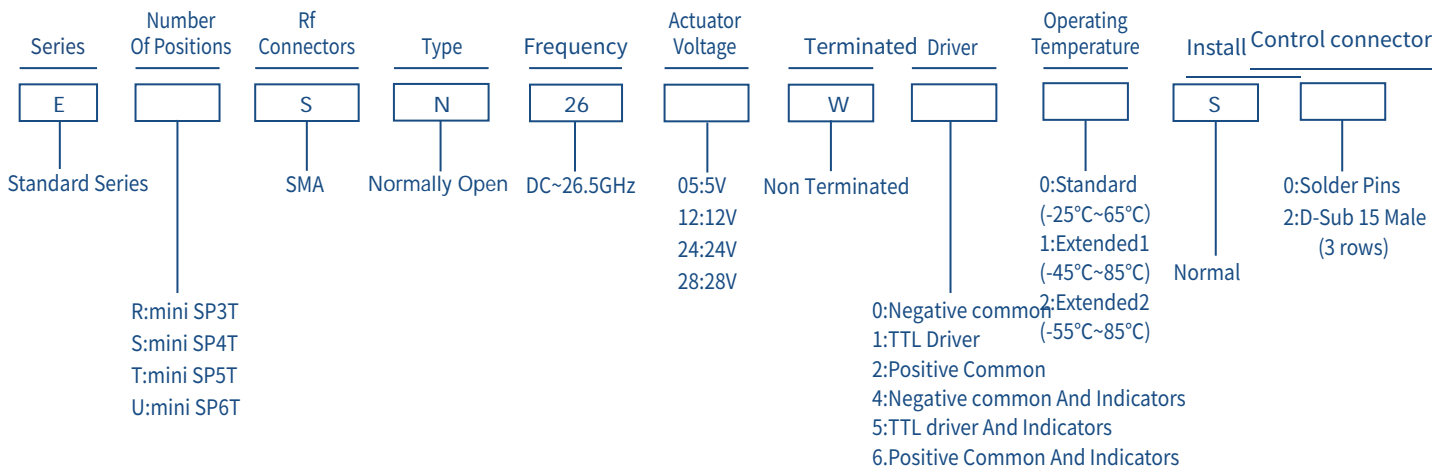


DB15 male

◆ Truth Table

Normally open Non TTL						Normally open TTL					
Actuator Terminals		RF Connector				Actuator Terminals		RF Connector			
D-SUB 15Pin Male						D-SUB 15Pin Male					
Pin No.	Define	SP3T	SP4T	SP5T	SP6T	Pin No.	Define	SP3T	SP4T	SP5T	SP6T
1	V1	RF 1-0	-	RF 1-0	RF 1-0	1	TTL	RF 1-0	-	RF 1-0	RF 1-0
2	V2	-	RF 2-0	RF 2-0	RF 2-0	2	TTL	-	RF 2-0	RF 2-0	RF 2-0
3	V3	RF 3-0	RF 3-0	RF 3-0	RF 3-0	3	TTL	RF 3-0	RF 3-0	RF 3-0	RF 3-0
4	V4	-	-	RF 4-0	RF 4-0	4	TTL	-	-	RF 4-0	RF 4-0
5	V5	RF 5-0	RF 5-0	RF 5-0	RF 5-0	5	TTL	RF 5-0	RF 5-0	RF 5-0	RF 5-0
6	V6	-	RF 6-0	-	RF 6-0	6	TTL	-	RF 6-0	-	RF 6-0
7	GND	-	-	-	-	7	VDC	-	-	-	-
8	Ind.1	RF 1-0	-	RF 1-0	RF 1-0	8	GND	-	-	-	-
9	Ind.2	-	RF 2-0	RF 2-0	RF 2-0	9	Ind.1	RF 1-0	-	RF 1-0	RF 1-0
10	Ind.3	RF 3-0	RF 3-0	RF 3-0	RF 3-0	10	Ind.2	-	RF 2-0	RF 2-0	RF 2-0
11	Ind.4	-	-	RF 4-0	RF 4-0	11	Ind.3	RF 3-0	RF 3-0	RF 3-0	RF 3-0
12	Ind.5	RF 5-0	RF 5-0	RF 5-0	RF 5-0	12	Ind.4	-	-	RF 4-0	RF 4-0
13	Ind.6	-	RF 6-0	-	RF 6-0	13	Ind.5	RF 5-0	RF 5-0	RF 5-0	RF 5-0
14	Ind.com	-	-	-	-	14	Ind.6	-	RF 6-0	-	RF 6-0
15	VDC	-	-	-	-	15	Ind.com	-	-	-	-

◆ Product Selection



★ EXP: ERSN2605W00S0: Standard Series、Mini SP3T、SMA、Normally Open、DC~26.5GHz、5V、Non Terminated、Negative common、Standard、Normal、Solder Pins.

◆ COAXIAL SWITCH

mini SP3T-6T 40GHz Normally open

◆ RF Characteristics

Frequency (GHz)	Ins.loss (dB)	Isolation (dB)	VSWR	RF Power CW (W)
DC-6	0.3	70	1.3	40
6-12	0.4	70	1.4	30
12-18	0.5	60	1.5	25
18-26.5	0.7	55	1.7	12
26.5-32	0.8	50	1.8	8
32-40	0.9	50	1.9	5



◆ Operating Voltage/Coil Current

Operating Voltage(V)		12	24	28
Coil Current (mA)	Normally open	300	150	140

* It can be selected according to user requirements

TTL	TTL Low(V)	TTL High	
	0-0.3	3~5V	1.4mA

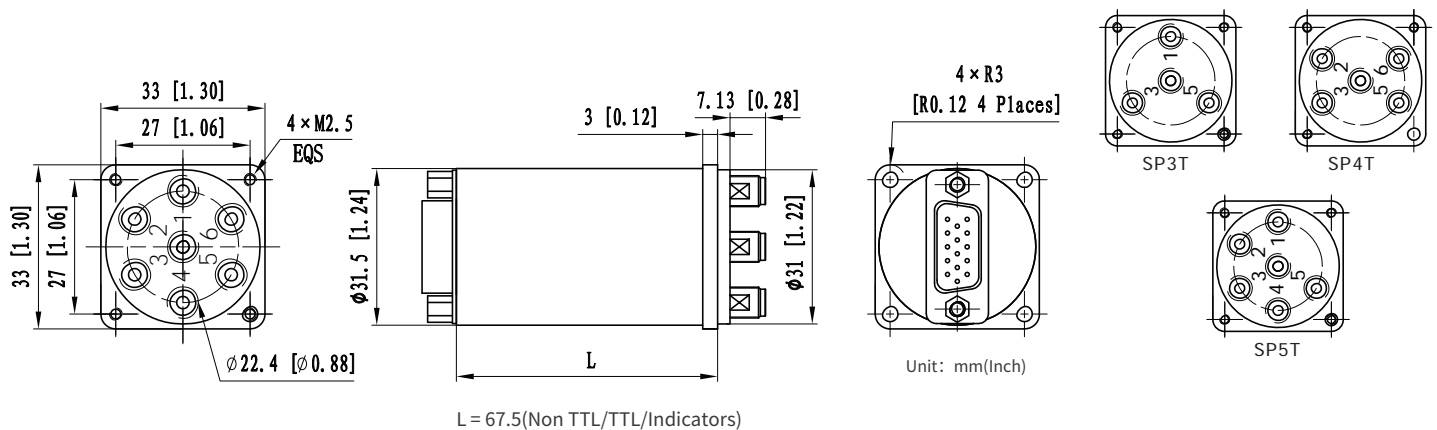
Indicators	Withstand Voltage V (max)	Current capacity mA (max)	Resistance Ω (max)
	50	100	15

* Connect VDC & GND before the function operates

◆ Product Functions

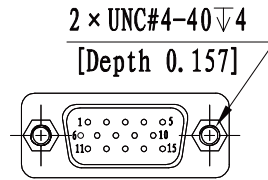
- DC to 40GHz
- Low loss, Low VSWR, High Isolation
- 2.92 Connector
- Selectable TTL driver control
- Miniaturization

◆ Outline Drawing



◆ Specifications

Switching Sequence: Break before Make	Mechanical Life Cycles: 2 million cycles	Mechanical Shock, Non-Operating: 50G, 1/2 Sine, 11 ms
Switching Time: 15ms max	RF Connectors: 2.92 Female	Vibration Operating: 20-2000 Hz, 10G RMS
Storage temperature: -55°C~85°C	Impedance: 50Ω	Actuator Terminals: Solder Pins/D-SUB 15Pin Male
Operating temperature: -25°C~65°C(Standard)		Weight: 120g
-45°C~85°C(Extended1)		
-55°C~85°C(Extended2)		

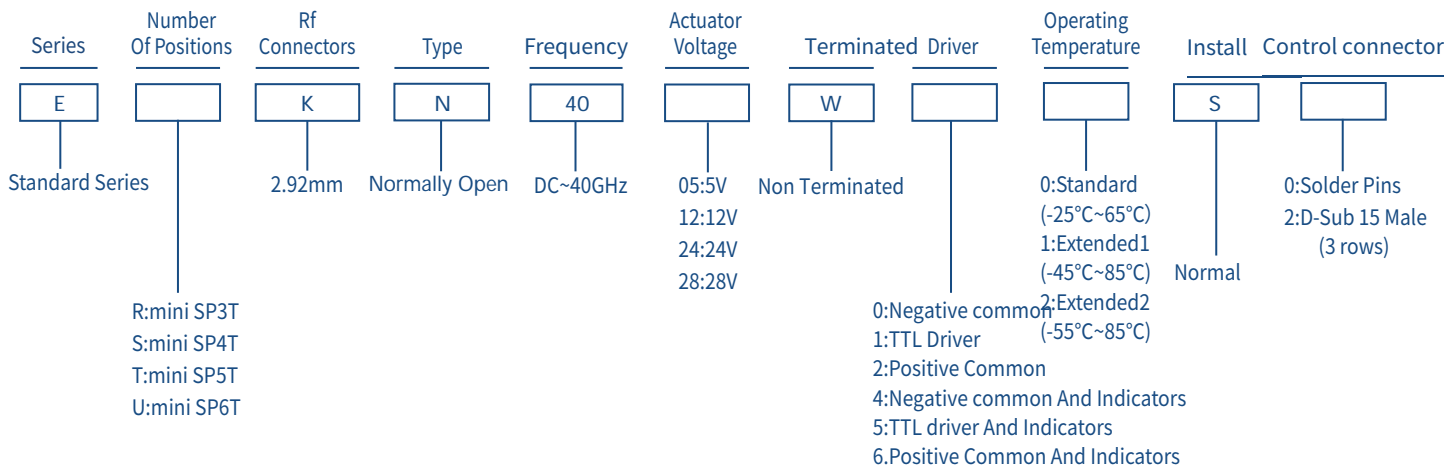


DB15 male

◆ Truth Table

Normally open Non TTL						Normally open TTL					
Actuator Terminals		RF Connector				Actuator Terminals		RF Connector			
D-SUB 15Pin Male		SP3T	SP4T	SP5T	SP6T	D-SUB 15Pin Male		SP3T	SP4T	SP5T	SP6T
Pin No.	Define	SP3T	SP4T	SP5T	SP6T	Pin No.	Define	SP3T	SP4T	SP5T	SP6T
1	V1	RF 1-0	-	RF 1-0	RF 1-0	1	TTL	RF 1-0	-	RF 1-0	RF 1-0
2	V2	-	RF 2-0	RF 2-0	RF 2-0	2	TTL	-	RF 2-0	RF 2-0	RF 2-0
3	V3	RF 3-0	RF 3-0	RF 3-0	RF 3-0	3	TTL	RF 3-0	RF 3-0	RF 3-0	RF 3-0
4	V4	-	-	RF 4-0	RF 4-0	4	TTL	-	-	RF 4-0	RF 4-0
5	V5	RF 5-0	RF 5-0	RF 5-0	RF 5-0	5	TTL	RF 5-0	RF 5-0	RF 5-0	RF 5-0
6	V6	-	RF 6-0	-	RF 6-0	6	TTL	-	RF 6-0	-	RF 6-0
7	GND	-	-	-	-	7	VDC	-	-	-	-
8	Ind.1	RF 1-0	-	RF 1-0	RF 1-0	8	GND	-	-	-	-
9	Ind.2	-	RF 2-0	RF 2-0	RF 2-0	9	Ind.1	RF 1-0	-	RF 1-0	RF 1-0
10	Ind.3	RF 3-0	RF 3-0	RF 3-0	RF 3-0	10	Ind.2	-	RF 2-0	RF 2-0	RF 2-0
11	Ind.4	-	-	RF 4-0	RF 4-0	11	Ind.3	RF 3-0	RF 3-0	RF 3-0	RF 3-0
12	Ind.5	RF 5-0	RF 5-0	RF 5-0	RF 5-0	12	Ind.4	-	-	RF 4-0	RF 4-0
13	Ind.6	-	RF 6-0	-	RF 6-0	13	Ind.5	RF 5-0	RF 5-0	RF 5-0	RF 5-0
14	Ind.com	-	-	-	-	14	Ind.6	-	RF 6-0	-	RF 6-0
15	VDC	-	-	-	-	15	Ind.com	-	-	-	-

◆ Product Selection



★ EXP: ERKN4005W00S0: Standard Series, Mini SP3T, 2.92mm, Normally Open, DC~40GHz, 5V, Non Terminated, Negative common, Standard, Normal, Solder Pins.

◆ COAXIAL SWITCH

mini SP3T-6T 43.5GHz Normally open

◆ RF Characteristics

Frequency (GHz)	Ins.loss (dB)	Isolation (dB)	VSWR	RF Power CW (W)
DC-6	0.3	70	1.3	40
6-12	0.4	70	1.4	30
12-18	0.5	60	1.5	25
18-26.5	0.7	55	1.7	12
26.5-32	0.8	50	1.8	8
32-40	0.9	50	1.9	5
40-43.5	1.0	50	2.0	4

◆ Operating Voltage/Coil Current

Operating Voltage(V)	12	24	28	
Coil Current (mA)	Normally open	300	150	140

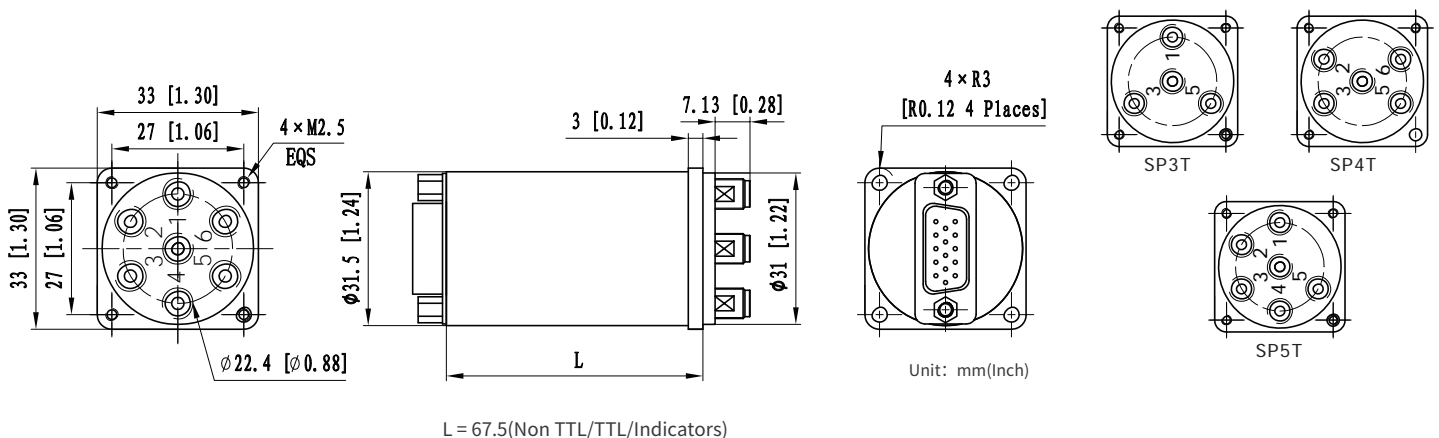
* It can be selected according to user requirements

TTL	TTL Low(V)	TTL High	
	0-0.3	3~5V	1.4mA

Indicators	Withstand Voltage V (max)	Current capacity mA(max)	Resistance Ω (max)
	50	100	15

* Connect VDC & GND before the function operates

◆ Outline Drawing



◆ Product Functions

- DC to 43.5GHz
- Low loss, Low VSWR, High Isolation
- 2.92 Connector
- Selectable TTL driver control
- Miniaturization

◆ Specifications

Switching Sequence: Break before Make

Mechanical Life Cycles: 2 million cycles

Mechanical Shock, Non-Operating: 50G, 1/2 Sine, 11 ms

Switching Time: 15ms max

RF Connectors: 2.92 Female

Vibration Operating: 20-2000 Hz, 10G RMS

Storage temperature: -55°C~85°C

Impedance: 50 Ω

Actuator Terminals: Solder Pins/D-SUB 15Pin Male

Operating temperature: -25°C~65°C(Standard)

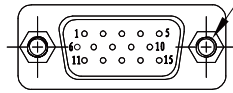
-45°C~85°C(Extended1)

-55°C~85°C(Extended2)

Weight: 120g

2 × UNC#4-40▽4

[Depth 0.157]

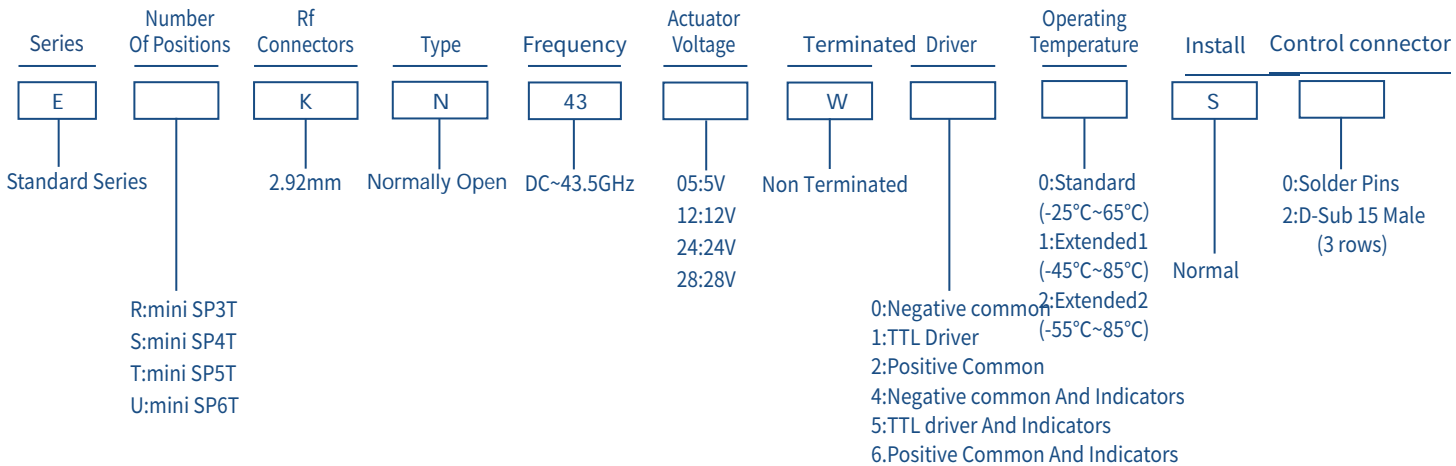


DB15 male

◆ Truth Table

Normally open Non TTL						Normally open TTL					
Actuator Terminals		RF Connector				Actuator Terminals		RF Connector			
D-SUB 15Pin Male						D-SUB 15Pin Male					
Pin No.	Define	SP3T	SP4T	SP5T	SP6T	Pin No.	Define	SP3T	SP4T	SP5T	SP6T
1	V1	RF 1-0	-	RF 1-0	RF 1-0	1	TTL	RF 1-0	-	RF 1-0	RF 1-0
2	V2	-	RF 2-0	RF 2-0	RF 2-0	2	TTL	-	RF 2-0	RF 2-0	RF 2-0
3	V3	RF 3-0	RF 3-0	RF 3-0	RF 3-0	3	TTL	RF 3-0	RF 3-0	RF 3-0	RF 3-0
4	V4	-	-	RF 4-0	RF 4-0	4	TTL	-	-	RF 4-0	RF 4-0
5	V5	RF 5-0	RF 5-0	RF 5-0	RF 5-0	5	TTL	RF 5-0	RF 5-0	RF 5-0	RF 5-0
6	V6	-	RF 6-0	-	RF 6-0	6	TTL	-	RF 6-0	-	RF 6-0
7	GND	-	-	-	-	7	VDC	-	-	-	-
8	Ind.1	RF 1-0	-	RF 1-0	RF 1-0	8	GND	-	-	-	-
9	Ind.2	-	RF 2-0	RF 2-0	RF 2-0	9	Ind.1	RF 1-0	-	RF 1-0	RF 1-0
10	Ind.3	RF 3-0	RF 3-0	RF 3-0	RF 3-0	10	Ind.2	-	RF 2-0	RF 2-0	RF 2-0
11	Ind.4	-	-	RF 4-0	RF 4-0	11	Ind.3	RF 3-0	RF 3-0	RF 3-0	RF 3-0
12	Ind.5	RF 5-0	RF 5-0	RF 5-0	RF 5-0	12	Ind.4	-	-	RF 4-0	RF 4-0
13	Ind.6	-	RF 6-0	-	RF 6-0	13	Ind.5	RF 5-0	RF 5-0	RF 5-0	RF 5-0
14	Ind.com	-	-	-	-	14	Ind.6	-	RF 6-0	-	RF 6-0
15	VDC	-	-	-	-	15	Ind.com	-	-	-	-

◆ Product Selection



★ EXP: ERKN4305W00S0: Standard Series、Mini SP3T、2.92mm、Normally Open、DC~43.5GHz、5V、Non Terminated、Negative common、Standard、Normal、Solder Pins.

◆ COAXIAL SWITCH

SP7T-8T 18GHz Normally open

◆ RF Characteristics

Frequency (GHz)	Ins.loss (dB)	Isolation (dB)	VSWR	RF Power CW (W)
DC-6	0.3	70	1.3	80
6-12	0.4	60	1.4	60
12-18	0.5	55	1.5	50



◆ Operating Voltage/Coil Current

Operating Voltage(V)	12	24	28	
Coil Current (mA)	Normally open	300	150	140

* It can be selected according to user requirements

TTL	TTL Low(V)	TTL High	
	0-0.3	3~5V	1.4mA

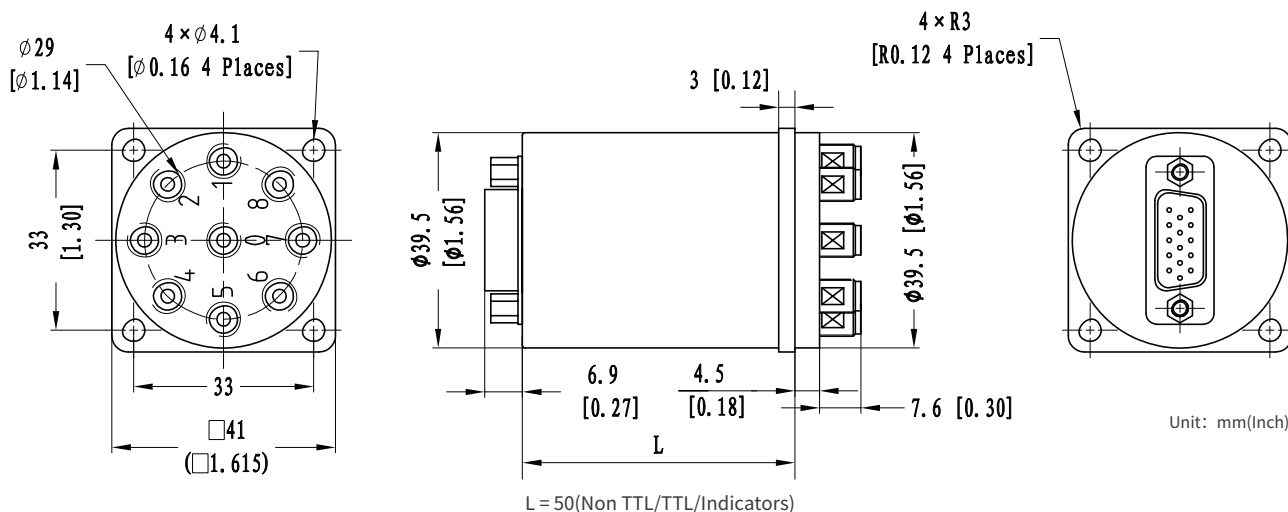
Indicators	Withstand Voltage V (max)	Current capacity mA(max)	Resistance Ω (max)
	50	100	15

* Connect VDC & GND before the function operates

◆ Product Functions

- DC to 18GHz
- Low loss, Low VSWR, High Isolation
- SMA Connector
- Selectable TTL driver control

◆ Outline Drawing



◆ Specifications

Switching Sequence: Break before Make

Mechanical Life Cycles: 2 million cycles

Mechanical Shock, Non-Operating: 50G, 1/2 Sine, 11 ms

Switching Time: 15ms max

RF Connectors: SMA Female

Vibration Operating: 20-2000 Hz, 10G RMS

Storage temperature: -55°C~85°C

Impedance: 50Ω

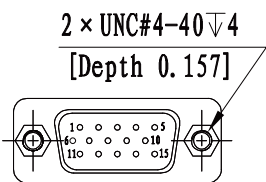
Actuator Terminals: D-SUB 15/26Pin Male

Operating temperature: -25°C~65°C(Standard)

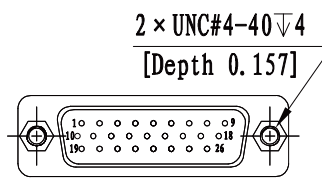
Weight: 145g

-45°C~85°C(Extended1)

-55°C~85°C(Extended2)



DB15 male



DB26 male

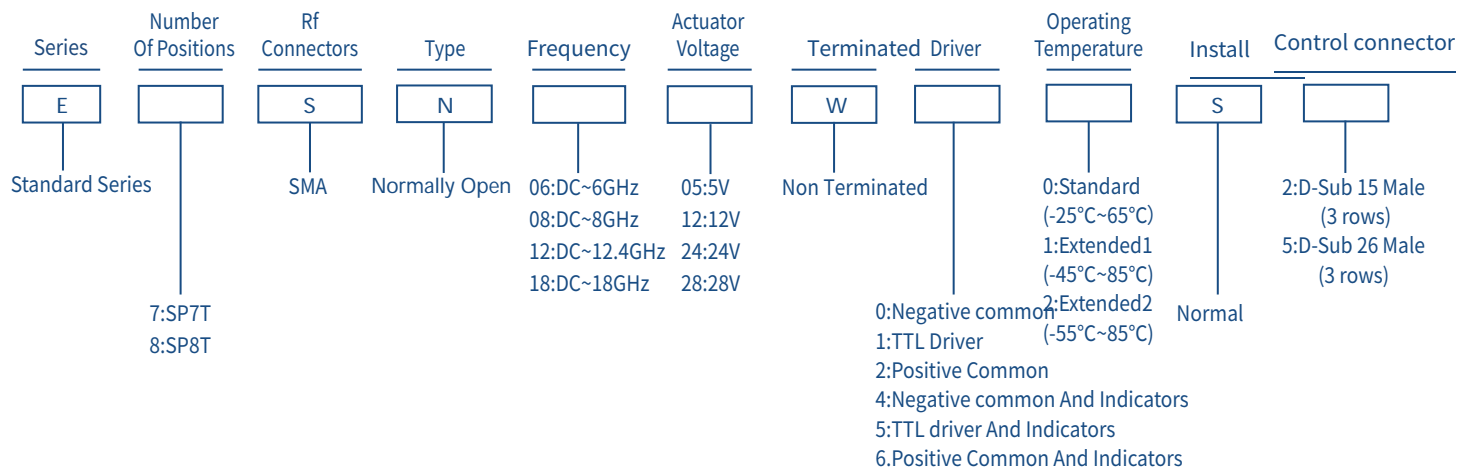
* Note: No indication function, control interface DB15 Male.

◆ Truth Table

Normally open Non TTL			
Actuator Terminals		RF Connector	
D-SUB 15/26Pin Male			
Pin No.	Define	SP7T	SP8T
1	V1	RF 1-0	RF 1-0
2	V2	RF 2-0	RF 2-0
3	V3	RF 3-0	RF 3-0
4	V4	RF 4-0	RF 4-0
5	V5	RF 5-0	RF 5-0
6	V6	RF 6-0	RF 6-0
7	V7	RF 7-0	RF 7-0
8	V8	-	RF 8-0
9	GND	-	-
10	Ind.1	Indicators	RF 1-0
11	Ind.2		RF 2-0
12	Ind.3		RF 3-0
13	Ind.4		RF 4-0
14	Ind.5		RF 5-0
15	Ind.6		RF 6-0
16	Ind.7		RF 7-0
17	Ind.8		-
18	Ind.com		-
19	VDC	-	-
20~26	N/A	-	-

Normally open TTL			
Actuator Terminals		RF Connector	
D-SUB 15/26Pin Male			
Pin No.	Define	SP7T	SP8T
1	TTL	RF 1-0	RF 1-0
2	TTL	RF 2-0	RF 2-0
3	TTL	RF 3-0	RF 3-0
4	TTL	RF 4-0	RF 4-0
5	TTL	RF 5-0	RF 5-0
6	TTL	RF 6-0	RF 6-0
7	TTL	RF 7-0	RF 7-0
8	TTL	-	RF 8-0
9	VDC	-	-
10	GND	-	-
11	Ind.1	Indicators	RF 1-0
12	Ind.2		RF 2-0
13	Ind.3		RF 3-0
14	Ind.4		RF 4-0
15	Ind.5		RF 5-0
16	Ind.6		RF 6-0
17	Ind.7		RF 7-0
18	Ind.8		-
19	Ind.com		-
20~26	N/A	-	-

◆ Product Selection



★ EXP: E7SN0605W00S2: Standard Series, SP7T, SMA, Normally Open, DC~6GHz, 5V, Non Terminated, Negative common, Standard, Normal, D-Sub 15 Male.

◆ COAXIAL SWITCH

SP7T-8T 26.5GHz

Normally open

◆ RF Characteristics

Frequency (GHz)	Ins.loss (dB)	Isolation (dB)	VSWR	RF Power CW (W)
DC-6	0.3	70	1.3	80
6-12	0.4	60	1.4	60
12-18	0.5	55	1.5	50
18-26.5	0.7	50	1.7	15

◆ Operating Voltage/Coil Current

Operating Voltage(V)	12	24	28	
Coil Current (mA)	Normally open	300	150	140

* It can be selected according to user requirements

TTL	TTL Low(V)	TTL High	
	0-0.3	3~5V	1.4mA

Indicators	Withstand Voltage V (max)	Current capacity mA(max)	Resistance Ω (max)
	50	100	15

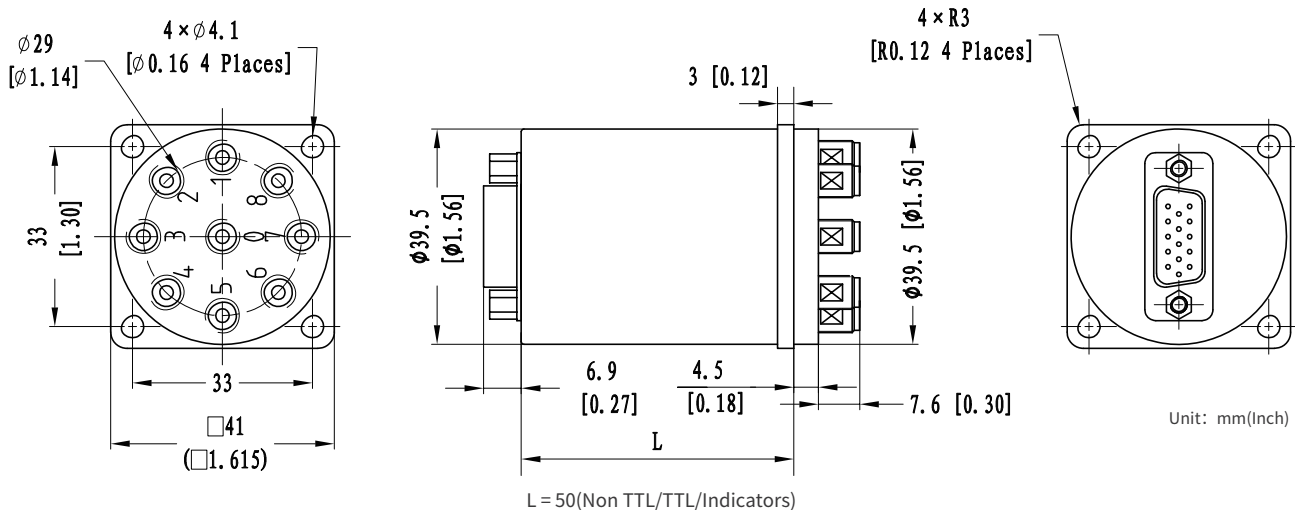
* Connect VDC & GND before the function operates



◆ Product Functions

- DC to 26.5GHz
- Low loss, Low VSWR, High Isolation
- SMA Connector
- Selectable TTL driver control

◆ Outline Drawing



◆ Specifications

Switching Sequence: Break before Make

Mechanical Life Cycles: 2 million cycles

Mechanical Shock, Non-Operating: 50G, 1/2 Sine, 11 ms

Switching Time: 15ms max

RF Connectors: SMA Female

Vibration Operating: 20-2000 Hz, 10G RMS

Storage temperature: -55°C~85°C

Impedance: 50Ω

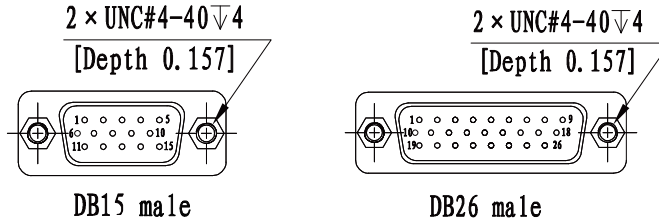
Actuator Terminals: D-SUB 15/26Pin Male

Operating temperature: -25°C~65°C(Standard)

Weight: 145g

-45°C~85°C(Extended1)

-55°C~85°C(Extended2)

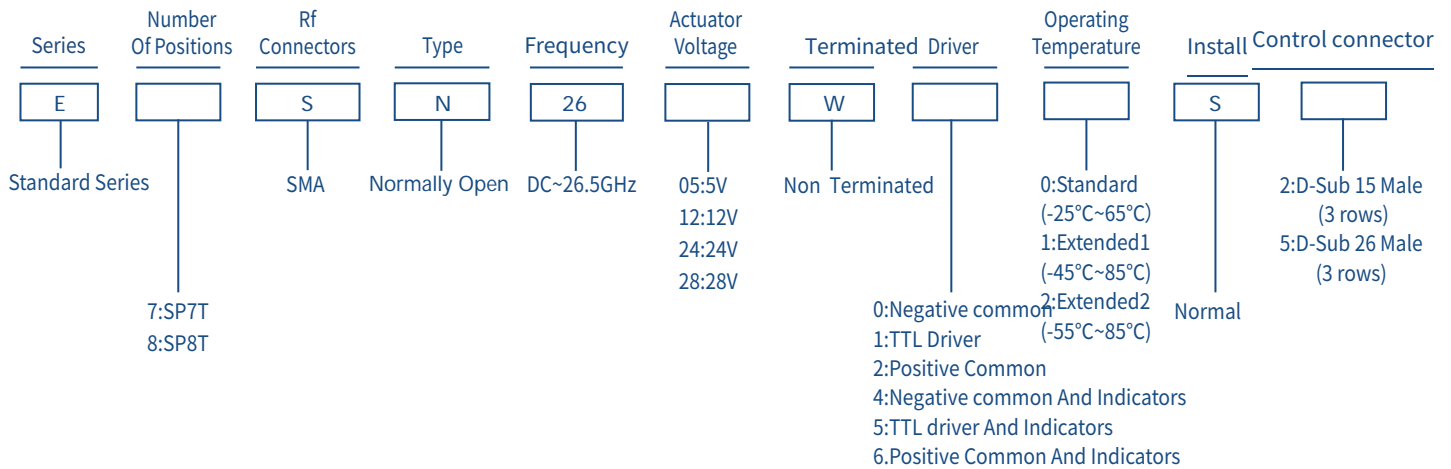


* Note: No indication function, control interface DB15 Male.

◆ Truth Table

Normally open Non TTL				Normally open TTL			
Actuator Terminals		RF Connector		Actuator Terminals		RF Connector	
D-SUB 15/26Pin Male				D-SUB 15/26Pin Male			
Pin No.	Define	SP7T	SP8T	Pin No.	Define	SP7T	SP8T
1	V1	RF 1-0	RF 1-0	1	TTL	RF 1-0	RF 1-0
2	V2	RF 2-0	RF 2-0	2	TTL	RF 2-0	RF 2-0
3	V3	RF 3-0	RF 3-0	3	TTL	RF 3-0	RF 3-0
4	V4	RF 4-0	RF 4-0	4	TTL	RF 4-0	RF 4-0
5	V5	RF 5-0	RF 5-0	5	TTL	RF 5-0	RF 5-0
6	V6	RF 6-0	RF 6-0	6	TTL	RF 6-0	RF 6-0
7	V7	RF 7-0	RF 7-0	7	TTL	RF 7-0	RF 7-0
8	V8	-	RF 8-0	8	TTL	-	RF 8-0
9	GND	-	-	9	VDC	-	-
10	Ind.1	RF 1-0	RF 1-0	10	GND	-	-
11	Ind.2	RF 2-0	RF 2-0	11	Ind.1	RF 1-0	RF 1-0
12	Ind.3	RF 3-0	RF 3-0	12	Ind.2	RF 2-0	RF 2-0
13	Ind.4	RF 4-0	RF 4-0	13	Ind.3	RF 3-0	RF 3-0
14	Ind.5	RF 5-0	RF 5-0	14	Ind.4	RF 4-0	RF 4-0
15	Ind.6	RF 6-0	RF 6-0	15	Ind.5	RF 5-0	RF 5-0
16	Ind.7	RF 7-0	RF 7-0	16	Ind.6	RF 6-0	RF 6-0
17	Ind.8	-	RF 8-0	17	Ind.7	RF 7-0	RF 7-0
18	Ind.com	-	-	18	Ind.8	-	RF 8-0
19	VDC	-	-	19	Ind.com	-	-
20~26	N/A	-	-	20~26	N/A	-	-

◆ Product Selection



★ EXP: E7SN2605W00S2: Standard Series, SP7T, SMA, Normally Open, DC~26.5GHz, 5V, Non Terminated, Negative common, Standard, Normal, D-Sub 15 Male.

◆ COAXIAL SWITCH

SP7T-8T 40GHz

Normally open

◆ RF Characteristics

Frequency (GHz)	Ins.loss (dB)	Isolation (dB)	VSWR	RF Power CW (W)
DC-6	0.3	70	1.3	40
6-12	0.4	60	1.4	30
12-18	0.5	55	1.5	25
18-26.5	0.7	50	1.7	12
26.5-32	0.8	50	1.8	8
32-40	0.9	50	1.9	5



◆ Operating Voltage/Coil Current

Operating Voltage(V)		12	24	28
Coil Current (mA)	Normally open	300	150	140

* It can be selected according to user requirements

TTL	TTL Low(V)	TTL High	
	0-0.3	3~5V	1.4mA

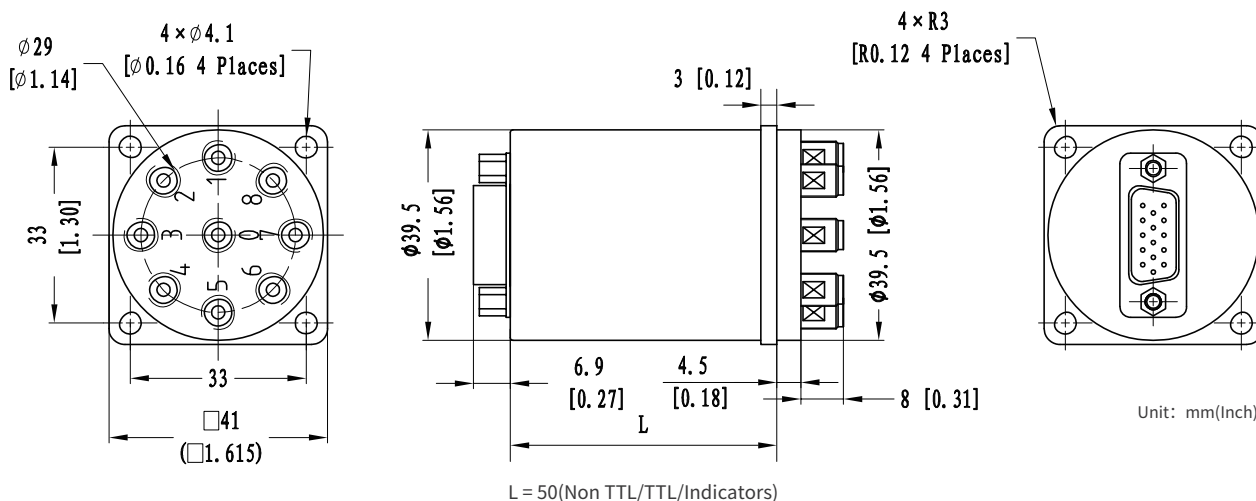
Indicators	Withstand Voltage V (max)	Current capacity mA(max)	Resistance Ω (max)
	50	100	15

* Connect VDC & GND before the function operates

◆ Product Functions

- DC to 40GHz
- Low loss, Low VSWR, High Isolation
- 2.92 Connector
- Selectable TTL driver control

◆ Outline Drawing



◆ Specifications

Switching Sequence: Break before Make

Switching Time: 15ms max

Storage temperature: -55°C~85°C

Operating temperature: -25°C~65°C(Standard)
-45°C~85°C(Extended1)
-55°C~85°C(Extended2)

Mechanical Life Cycles: 2 million cycles

RF Connectors: 2.92 Female

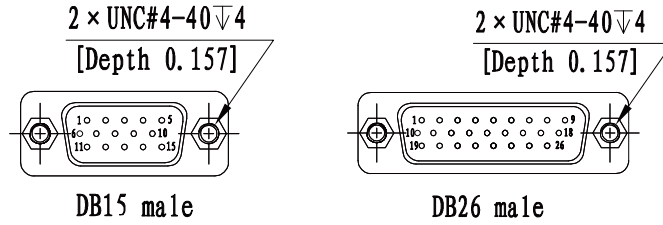
Impedance: 50 Ω

Mechanical Shock, Non-Operating: 50G, 1/2 Sine, 11 ms

Vibration Operating: 20-2000 Hz, 10G RMS

Actuator Terminals: D-SUB 15Pin Male

Weight: 145g



DB15 male

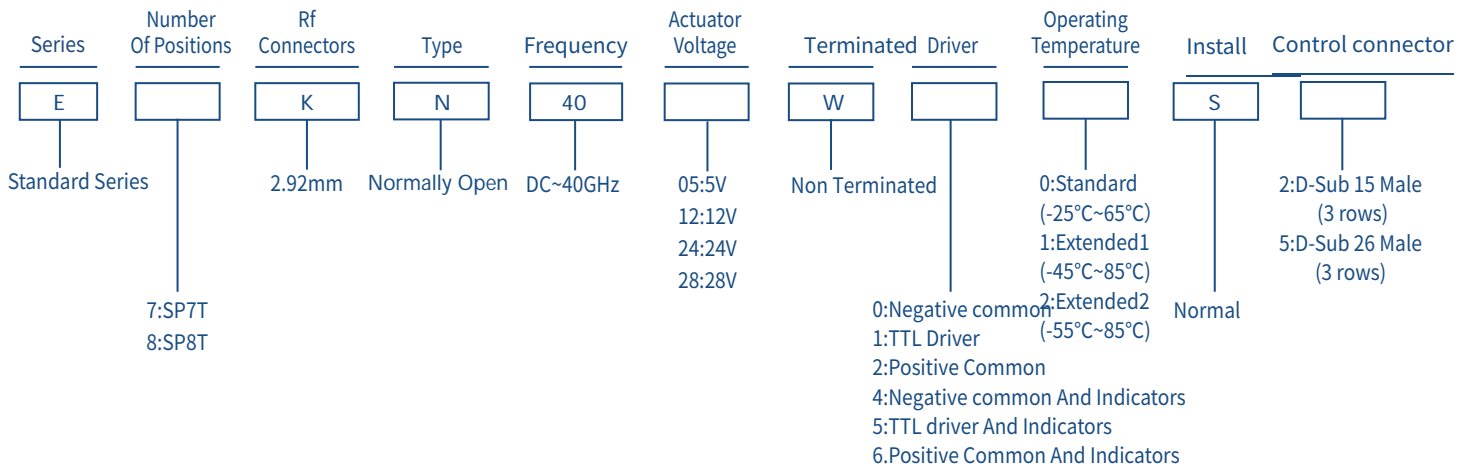
DB26 male

* Note: No indication function, control interface DB15 Male.

◆ Truth Table

Normally open Non TTL				Normally open TTL			
Actuator Terminals		RF Connector		Actuator Terminals		RF Connector	
D-SUB 15/26Pin Male				D-SUB 15/26Pin Male			
Pin No.	Define	SP7T	SP8T	Pin No.	Define	SP7T	SP8T
1	V1	RF 1-0	RF 1-0	1	TTL	RF 1-0	RF 1-0
2	V2	RF 2-0	RF 2-0	2	TTL	RF 2-0	RF 2-0
3	V3	RF 3-0	RF 3-0	3	TTL	RF 3-0	RF 3-0
4	V4	RF 4-0	RF 4-0	4	TTL	RF 4-0	RF 4-0
5	V5	RF 5-0	RF 5-0	5	TTL	RF 5-0	RF 5-0
6	V6	RF 6-0	RF 6-0	6	TTL	RF 6-0	RF 6-0
7	V7	RF 7-0	RF 7-0	7	TTL	RF 7-0	RF 7-0
8	V8	-	RF 8-0	8	TTL	-	RF 8-0
9	GND	-	-	9	VDC	-	-
10	Ind.1	RF 1-0	RF 1-0	10	GND	-	-
11	Ind.2	RF 2-0	RF 2-0	11	Ind.1	RF 1-0	RF 1-0
12	Ind.3	RF 3-0	RF 3-0	12	Ind.2	RF 2-0	RF 2-0
13	Ind.4	RF 4-0	RF 4-0	13	Ind.3	RF 3-0	RF 3-0
14	Ind.5	RF 5-0	RF 5-0	14	Ind.4	RF 4-0	RF 4-0
15	Ind.6	RF 6-0	RF 6-0	15	Ind.5	RF 5-0	RF 5-0
16	Ind.7	RF 7-0	RF 7-0	16	Ind.6	RF 6-0	RF 6-0
17	Ind.8	-	RF 8-0	17	Ind.7	RF 7-0	RF 7-0
18	Ind.com	-	-	18	Ind.8	-	RF 8-0
19	VDC	-	-	19	Ind.com	-	-
20~26	N/A	-	-	20~26	N/A	-	-

◆ Product Selection



★ EXP: E7KN4005W00S2: Standard Series, SP7T, 2.92mm, Normally Open, DC~40GHz, 5V, Non Terminated, Negative common, Standard, Normal, D-Sub 15 Male.

◆ COAXIAL SWITCH

SP9T-10T 18GHz

Normally open

◆ RF Characteristics

Frequency (GHz)	Ins.loss (dB)	Isolation (dB)	VSWR	RF Power CW (W)
DC-6	0.3	70	1.3	80
6-12	0.4	60	1.4	60
12-18	0.5	55	1.5	50



◆ Operating Voltage/Coil Current

Operating Voltage(V)	12	24	28	
Coil Current (mA)	Normally open	300	150	140

* It can be selected according to user requirements

TTL	TTL Low(V)	TTL High	
	0-0.3	3~5V	1.4mA

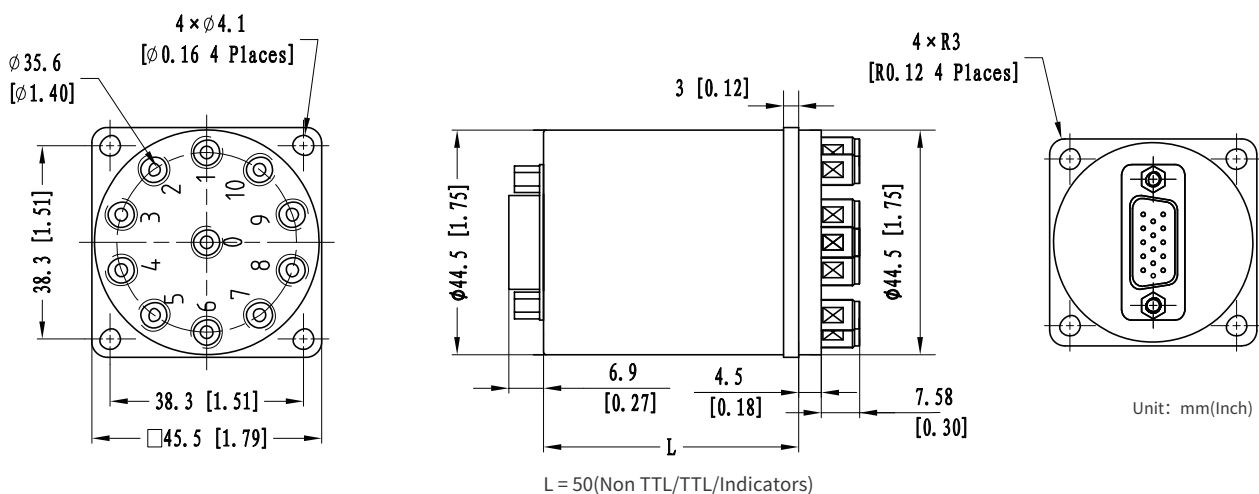
Indicators	Withstand Voltage V (max)	Current capacity mA(max)	Resistance Ω (max)
	50	100	15

* Connect VDC & GND before the function operates

◆ Product Functions

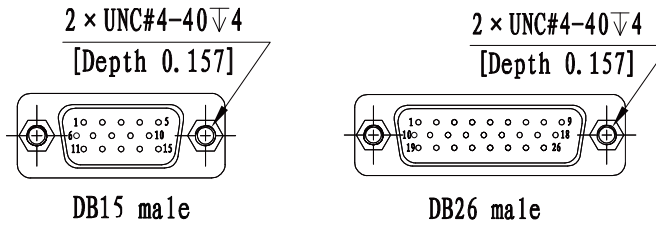
- DC to 18GHz
- Low loss, Low VSWR, High Isolation
- SMA Connector
- Selectable TTL driver control

◆ Outline Drawing



◆ Specifications

Switching Sequence: Break before Make	Mechanical Life Cycles: 2 million cycles	Mechanical Shock, Non-Operating: 50G, 1/2 Sine, 11 ms
Switching Time: 15ms max	RF Connectors: SMA Female	Vibration Operating: 20-2000 Hz, 10G RMS
Storage temperature: -55°C~85°C	Impedance: 50Ω	Actuator Terminals: D-SUB 15/26Pin Male
Operating temperature: -25°C~65°C(Standard)		Weight: 185g
-45°C~85°C(Extended1)		
-55°C~85°C(Extended2)		



DB15 male

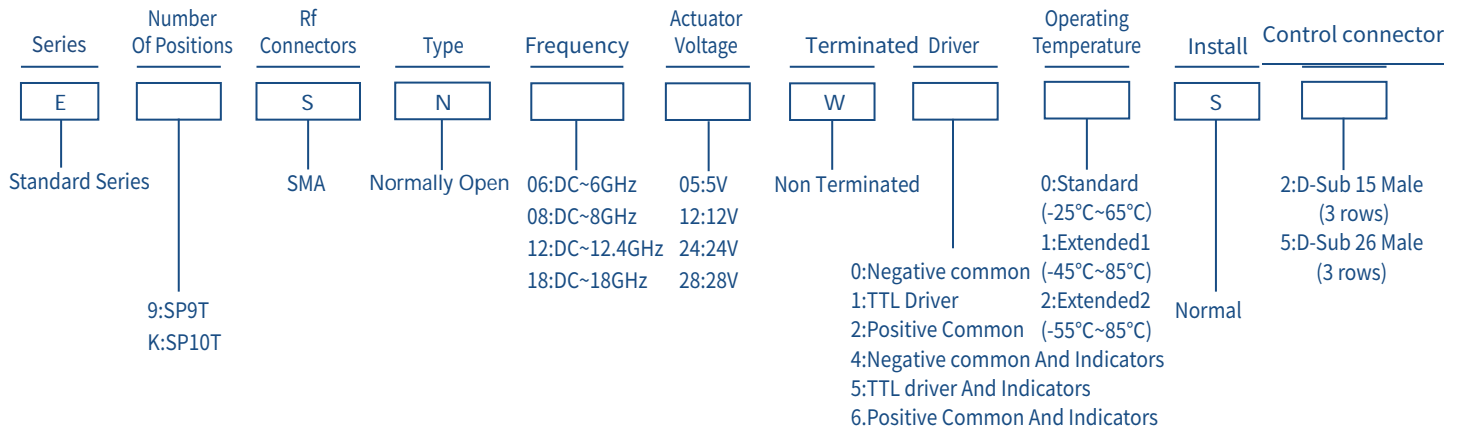
DB26 male

* Note: No indication function, control interface DB15 Male.

◆ Truth Table

Normally open Non TTL				Normally open TTL			
Actuator Terminals		RF Connector		Actuator Terminals		RF Connector	
D-SUB 15/26Pin Male				D-SUB 15/26Pin Male			
Pin No.	Define	SP9T	SP10T	Pin No.	Define	SP9T	SP10T
1	V1	RF 1-0	RF 1-0	1	TTL	RF 1-0	RF 1-0
2	V2	RF 2-0	RF 2-0	2	TTL	RF 2-0	RF 2-0
3	V3	RF 3-0	RF 3-0	3	TTL	RF 3-0	RF 3-0
4	V4	RF 4-0	RF 4-0	4	TTL	RF 4-0	RF 4-0
5	V5	RF 5-0	RF 5-0	5	TTL	RF 5-0	RF 5-0
6	V6	RF 6-0	RF 6-0	6	TTL	RF 6-0	RF 6-0
7	V7	RF 7-0	RF 7-0	7	TTL	RF 7-0	RF 7-0
8	V8	RF 8-0	RF 8-0	8	TTL	RF 8-0	RF 8-0
9	V9	RF 9-0	RF 9-0	9	TTL	RF 9-0	RF 9-0
10	V10	-	RF 10-0	10	TTL	-	RF 10-0
11	GND	-	-	11	VDC	-	-
12	Ind.1	RF 1-0	RF 1-0	12	GND	-	-
13	Ind.2	RF 2-0	RF 2-0	13	Ind.1	RF 1-0	RF 1-0
14	Ind.3	RF 3-0	RF 3-0	14	Ind.2	RF 2-0	RF 2-0
15	Ind.4	RF 4-0	RF 4-0	15	Ind.3	RF 3-0	RF 3-0
16	Ind.5	RF 5-0	RF 5-0	16	Ind.4	RF 4-0	RF 4-0
17	Ind.6	RF 6-0	RF 6-0	17	Ind.5	RF 5-0	RF 5-0
18	Ind.7	RF 7-0	RF 7-0	18	Ind.6	RF 6-0	RF 6-0
19	Ind.8	RF 8-0	RF 8-0	19	Ind.7	RF 7-0	RF 7-0
20	Ind.9	RF 9-0	RF 9-0	20	Ind.8	RF 8-0	RF 8-0
21	Ind.10	-	RF 10-0	21	Ind.9	RF 9-0	RF 9-0
22	Ind.com	-	-	22	Ind.10	-	RF 10-0
23	VDC	-	-	23	Ind.com	-	-
24~26	N/A	-	-	24~26	N/A	-	-

◆ Product Selection



★ EXP: E9SN0605W00S2: Standard Series, SP9T, SMA, Normally Open, DC~6GHz, 5V, Non Terminated, Negative common, Standard, Normal, D-Sub 15 Male.

◆ COAXIAL SWITCH

SP9T-10T 26.5GHz

Normally open

◆ RF Characteristics

Frequency (GHz)	Ins. loss (dB)	Isolation (dB)	VSWR	RF Power CW (W)
DC-6	0.3	70	1.3	80
6-12	0.4	60	1.4	60
12-18	0.6	50	1.6	50
18-26.5	0.7	50	1.7	15



◆ Operating Voltage/Coil Current

Operating Voltage(V)	12	24	28	
Coil Current (mA)	Normally open	300	150	140

* It can be selected according to user requirements

TTL	TTL Low(V)	TTL High	
	0-0.3	3~5V	1.4mA

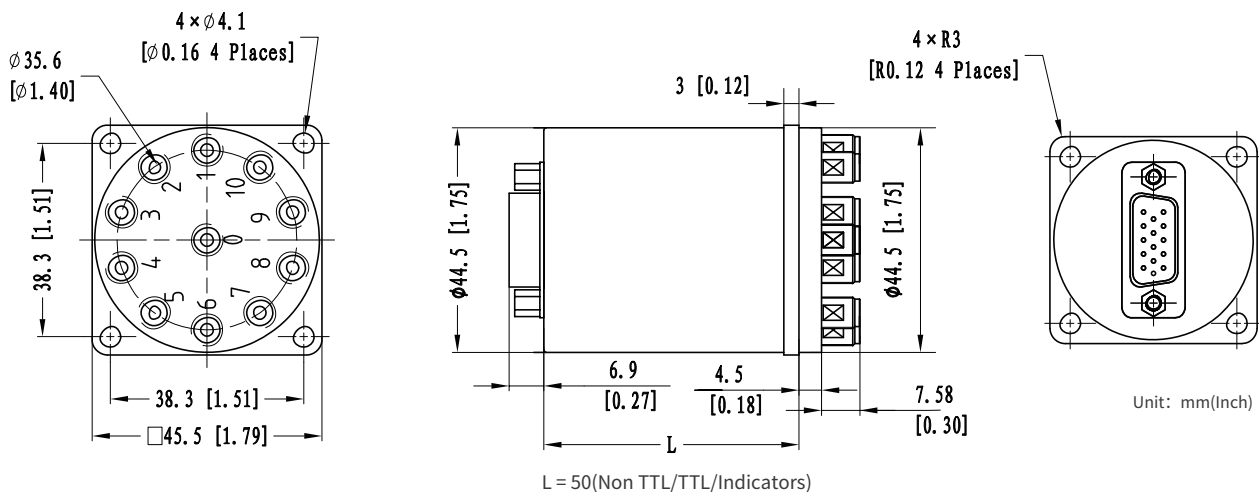
Indicators	Withstand Voltage V (max)	Current capacity mA(max)	Resistance Ω (max)
	50	100	15

* Connect VDC & GND before the function operates

◆ Product Functions

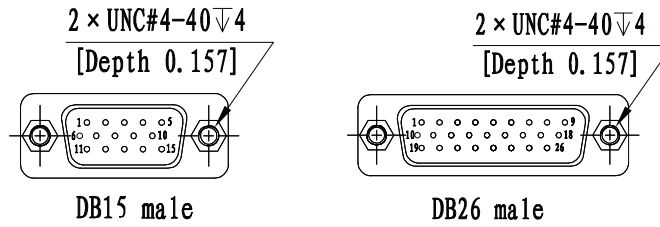
- DC to 26.5GHz
- Low loss, Low VSWR, High Isolation
- SMA Connector
- Selectable TTL driver control

◆ Outline Drawing



◆ Specifications

Switching Sequence: Break before Make	Mechanical Life Cycles: 2 million cycles	Mechanical Shock, Non-Operating: 50G, 1/2 Sine, 11 ms
Switching Time: 15ms max	RF Connectors: SMA Female	Vibration Operating: 20-2000 Hz, 10G RMS
Storage temperature: -55°C~85°C	Impedance: 50Ω	Actuator Terminals: D-SUB 15/26Pin Male
Operating temperature: -25°C~65°C(Standard)		Weight: 185g
-45°C~85°C(Extended1)		
-55°C~85°C(Extended2)		

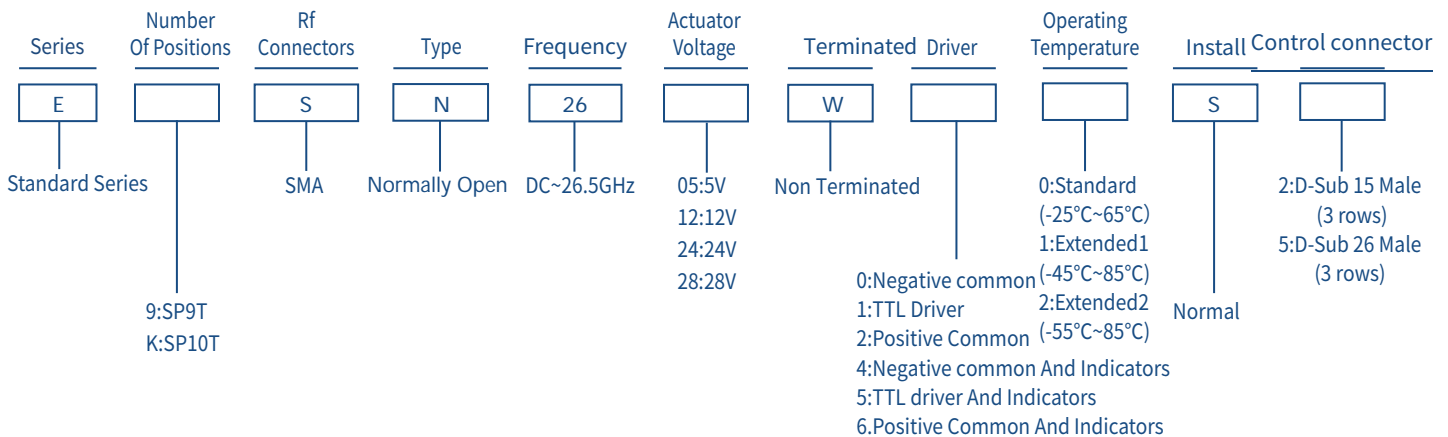


◆ Truth Table

* No indication function, control interface DB15 Male.

Normally open Non TTL				Normally open TTL			
Actuator Terminals		RF Connector		Actuator Terminals		RF Connector	
D-SUB 15/26Pin Male				D-SUB 15/26Pin Male			
Pin No.	Define	SP9T	SP10T	Pin No.	Define	SP9T	SP10T
1	V1	RF 1-0	RF 1-0	1	TTL	RF 1-0	RF 1-0
2	V2	RF 2-0	RF 2-0	2	TTL	RF 2-0	RF 2-0
3	V3	RF 3-0	RF 3-0	3	TTL	RF 3-0	RF 3-0
4	V4	RF 4-0	RF 4-0	4	TTL	RF 4-0	RF 4-0
5	V5	RF 5-0	RF 5-0	5	TTL	RF 5-0	RF 5-0
6	V6	RF 6-0	RF 6-0	6	TTL	RF 6-0	RF 6-0
7	V7	RF 7-0	RF 7-0	7	TTL	RF 7-0	RF 7-0
8	V8	RF 8-0	RF 8-0	8	TTL	RF 8-0	RF 8-0
9	V9	RF 9-0	RF 9-0	9	TTL	RF 9-0	RF 9-0
10	V10	-	RF 10-0	10	TTL	-	RF 10-0
11	GND	-	-	11	VDC	-	-
12	Ind.1	RF 1-0	RF 1-0	12	GND	-	-
13	Ind.2	RF 2-0	RF 2-0	13	Ind.1	RF 1-0	RF 1-0
14	Ind.3	RF 3-0	RF 3-0	14	Ind.2	RF 2-0	RF 2-0
15	Ind.4	RF 4-0	RF 4-0	15	Ind.3	RF 3-0	RF 3-0
16	Ind.5	RF 5-0	RF 5-0	16	Ind.4	RF 4-0	RF 4-0
17	Ind.6	RF 6-0	RF 6-0	17	Ind.5	RF 5-0	RF 5-0
18	Ind.7	RF 7-0	RF 7-0	18	Ind.6	RF 6-0	RF 6-0
19	Ind.8	RF 8-0	RF 8-0	19	Ind.7	RF 7-0	RF 7-0
20	Ind.9	RF 9-0	RF 9-0	20	Ind.8	RF 8-0	RF 8-0
21	Ind.10	-	RF 10-0	21	Ind.9	RF 9-0	RF 9-0
22	Ind.com	-	-	22	Ind.10	-	RF 10-0
23	VDC	-	-	23	Ind.com	-	-
24~26	N/A	-	-	24~26	N/A	-	-

◆ Product Selection



★ EXP: E9SN2605W00S2: Standard Series, SP9T, SMA, Normally Open, DC~26.5GHz, 5V, Non Terminated, Negative common, Standard D-Sub 15 Male.

◆ COAXIAL SWITCH

SP11T-12T 18GHz

Normally open

◆ RF Characteristics

Frequency (GHz)	Ins.loss (dB)	Isolation (dB)	VSWR	RF Power CW (W)
DC-6	0.3	70	1.3	80
6-12	0.4	60	1.4	60
12-18	0.6	50	1.6	50



◆ Operating Voltage/Coil Current

Operating Voltage(V)	12	24	28	
Coil Current (mA)	Normally open	300	150	140

* It can be selected according to user requirements

TTL	TTL Low(V)	TTL High	
	0-0.3	3~5V	1.4mA

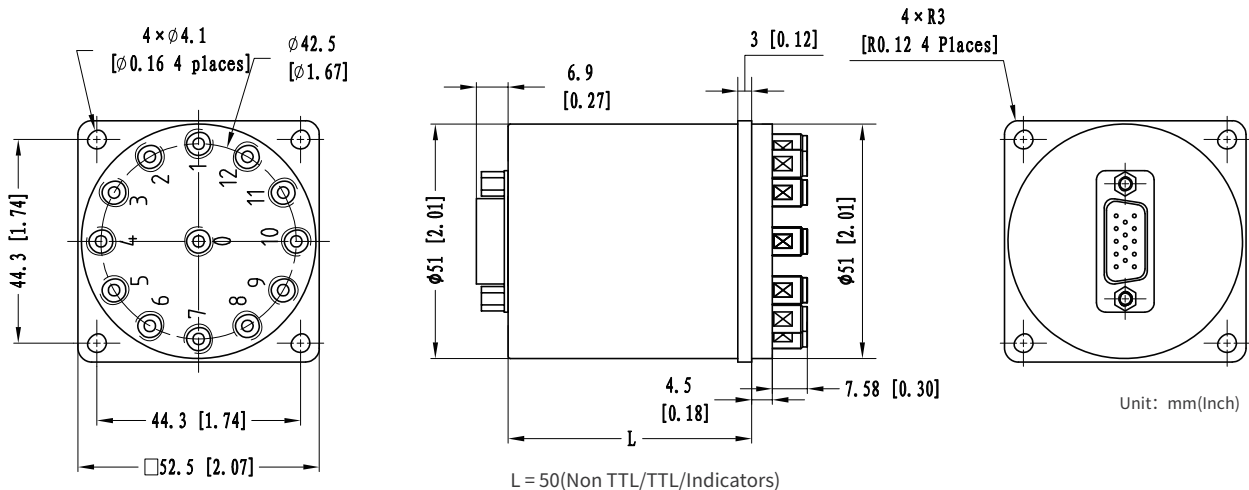
Indicators	Withstand Voltage V (max)	Current capacity mA(max)	Resistance Ω (max)
	50	100	15

* Connect VDC & GND before the function operates

◆ Product Functions

- DC to 18GHz
- Low loss, Low VSWR, High Isolation
- SMA Connector
- Selectable TTL driver control

◆ Outline Drawing

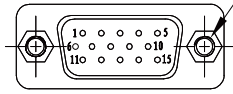


◆ Specifications

Switching Sequence: Break before Make	Mechanical Life Cycles: 2 million cycles	Mechanical Shock, Non-Operating: 50G, 1/2 Sine, 11 ms
Switching Time: 15ms max	RF Connectors: SMA Female	Vibration Operating: 20-2000 Hz, 10G RMS
Storage temperature: -55°C~85°C	Impedance: 50 Ω	Actuator Terminals: D-SUB 15Pin Male
Operating temperature: -25°C~65°C(Standard)		Weight: 225g
-45°C~85°C(Extended1)		
-55°C~85°C(Extended2)		

2 × UNC#4-40▽4

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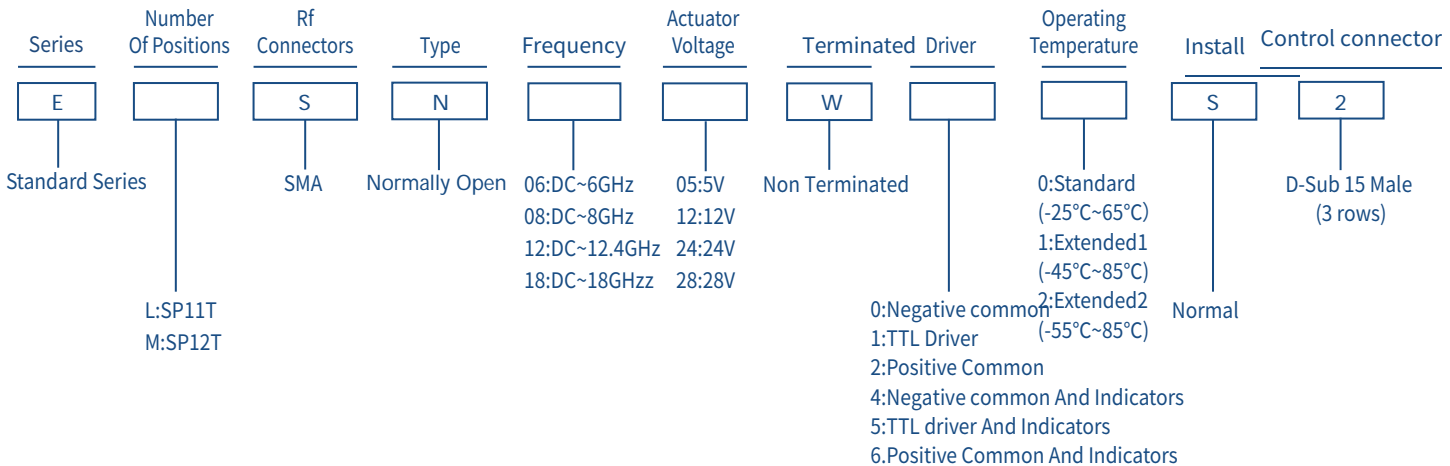


DB15 male

◆ Truth Table

Normally open Non TTL				Normally open TTL			
Actuator Terminals		RF Connector		Actuator Terminals		RF Connector	
D-SUB 15Pin Male				D-SUB 15Pin Male			
Pin No.	Define	SP11T	SP12T	Pin No.	Define	SP11T	SP12T
1	V1	RF 1-0	RF 1-0	1	TTL	RF 1-0	RF 1-0
2	V2	RF 2-0	RF 2-0	2	TTL	RF 2-0	RF 2-0
3	V3	RF 3-0	RF 3-0	3	TTL	RF 3-0	RF 3-0
4	V4	RF 4-0	RF 4-0	4	TTL	RF 4-0	RF 4-0
5	V5	RF 5-0	RF 5-0	5	TTL	RF 5-0	RF 5-0
6	V6	RF 6-0	RF 6-0	6	TTL	RF 6-0	RF 6-0
7	V7	RF 7-0	RF 7-0	7	TTL	RF 7-0	RF 7-0
8	V8	RF 8-0	RF 8-0	8	TTL	RF 8-0	RF 8-0
9	V9	RF 9-0	RF 9-0	9	TTL	RF 9-0	RF 9-0
10	V10	RF 10-0	RF 10-0	10	TTL	RF 10-0	RF 10-0
11	V11	RF 11-0	RF 11-0	11	TTL	RF 11-0	RF 11-0
12	V12	-	RF 12-0	12	TTL	-	RF 12-0
13	GND	-	-	13	VDC	-	-
14~15	N/A	-	-	14	GND	-	-
				15	N/A	-	-

◆ Product Selection



★ EXP: ELSN0605W00S2: Standard Series, SP11T, SMA, Normally Open, DC-6GHz, 5V, Non Terminated、Negative common、Standard、Normal、D-Sub 15 Male.

◆ COAXIAL SWITCH

DPDT 18GHz Failsafe / Latching

◆ RF Characteristics

Frequency (GHz)	Ins.loss (dB)	Isolation (dB)	VSWR	RF Power CW (W)
DC-6	0.3	70	1.3	80
6-12	0.4	60	1.4	60
12-18	0.5	55	1.5	50



◆ Operating Voltage/Coil Current

Operating Voltage(V)	12	24	28	
Coil Current (mA)	Failsafe	350	200	180
	Latching	400	200	185

* It can be selected according to user requirements

TTL	TTL Low(V)	TTL High	
	0-0.3	3~5V	1.4mA

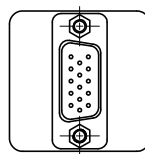
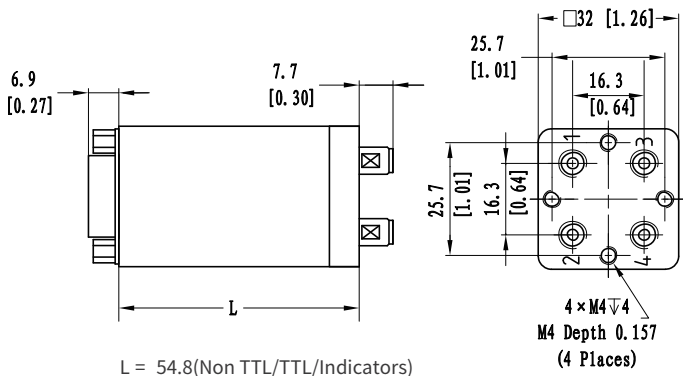
Indicators	Withstand Voltage V (max)	Current capacity mA(max)	Resistance Ω (max)
	50	100	15

* Connect VDC & GND before the function operates

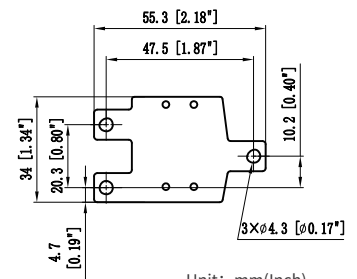
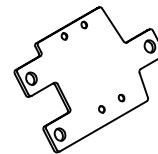
◆ Product Functions

- DC to 18GHz
- Low loss, Low VSWR, High Isolation
- SMA Connector
- Selectable TTL driver control

◆ Outline Drawing



Unit: mm(Inch)



Unit: mm(Inch)

◆ Backplane

◆ Specifications

Switching Sequence: Break before Make

Mechanical Life Cycles: 2 million cycles

Mechanical Shock, Non-Operating: 50G, 1/2 Sine, 11 ms

Switching Time: 15ms max

RF Connectors: SMA Female

Vibration Operating: 20-2000 Hz, 10G RMS

Storage temperature: -55°C~85°C

Impedance: 50Ω

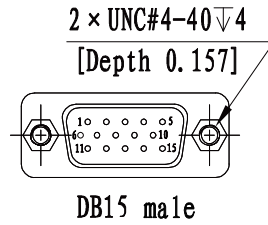
Actuator Terminals: D-SUB 15Pin Male

Operating temperature: -25°C~65°C(Standard)

-45°C~85°C(Extended1)

-55°C~85°C(Extended2)

Weight: 100g

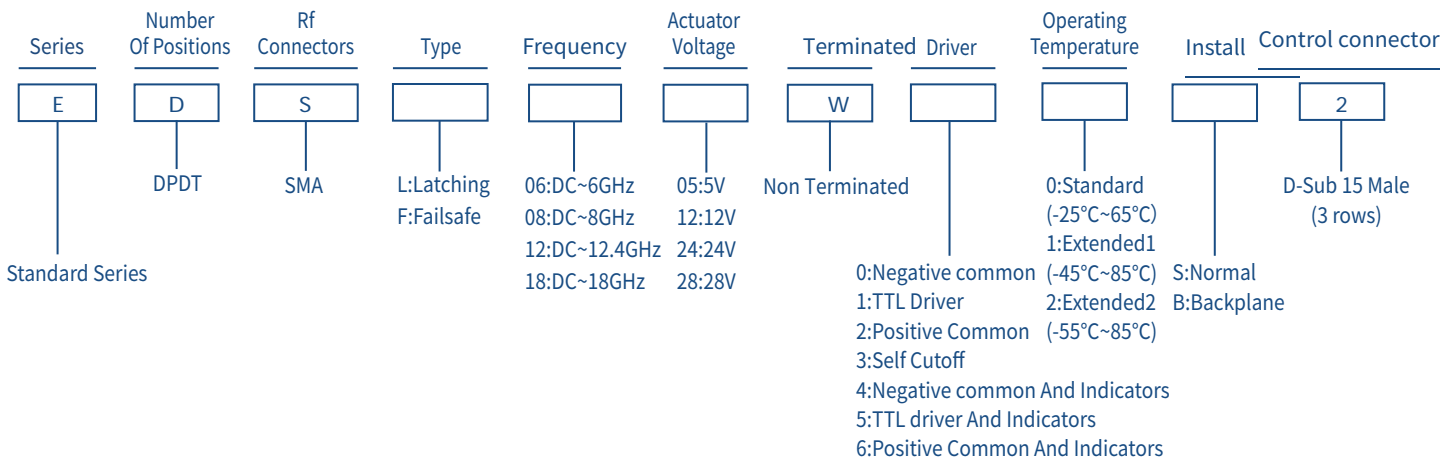


◆ Truth Table

Failsafe Non TTL			Failsafe TTL			
Actuator Terminals		RF Connector	Actuator Terminals		RF Connector	
D-SUB 15Pin Male			D-SUB 15Pin Male			
Pin No.	Define	No Power,RF 1-2,3-4	Pin No.	Define	No Power,RF 1-2,3-4	
1	GND	-	1	VDC	-	
2	V	RF 1-3,2-4	2	GND	-	
3~11	N/A	-	3	TTL	RF 1-3,2-4	
12	VDC	Indicators	4~12	N/A	-	
13	Ind.1		RF 1-2,3-4	13	Ind.1	RF 1-2,3-4
14	Ind.2		RF 1-3,2-4	14	Ind.2	RF 1-3,2-4
15	Ind.com		-	15	Ind.com	-

Latching Non TTL			Latching TTL			
Actuator Terminals		RF Connector	Actuator Terminals		RF Connector	
D-SUB 15Pin Male			D-SUB 15Pin Male			
Pin No.	Define	-	Pin No.	Define	-	
1	V1	RF 1-2,3-4	1	VDC	-	
2	V2	RF 1-3,2-4	2	GND	-	
3	GND	-	3	TTL	RF 1-2,3-4	
4~11	N/A	-	4	TTL	RF 1-3,2-4	
12	VDC	Indicators	5~12	N/A	-	
13	Ind.1		RF 1-2,3-4	13	Ind.1	RF 1-2,3-4
14	Ind.2		RF 1-3,2-4	14	Ind.2	RF 1-3,2-4
15	Ind.com		-	15	Ind.com	-

◆ Product Selection



★ EXP: EDSL0605W00S2: Standard Series, DPDT, SMA, Latching, DC~6GHz, 5V, Non Terminated, Negative common, Standard, Normal, D-Sub 15 Male.

◆ COAXIAL SWITCH

DPDT 26.5GHz Failsafe / Latching

◆ RF Characteristics

Frequency (GHz)	Ins.loss (dB)	Isolation (dB)	VSWR	RF Power CW (W)
DC-6	0.3	70	1.3	80
6-12	0.4	60	1.4	60
12-18	0.5	55	1.5	50
18-26.5	0.7	50	1.7	15

◆ Operating Voltage/Coil Current

Operating Voltage(V)	12	24	28	
Coil Current (mA)	Failsafe	350	200	180
	Latching	400	200	185

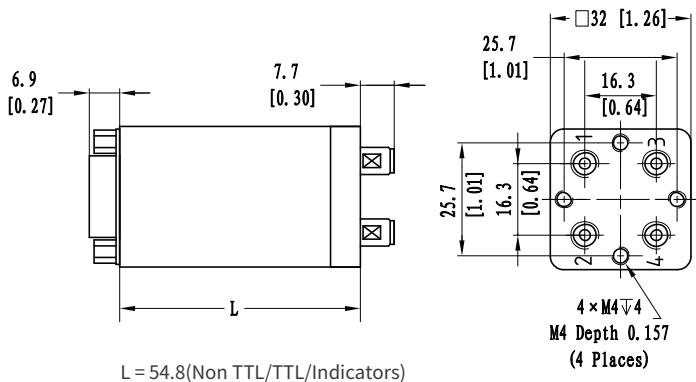
* It can be selected according to user requirements

TTL	TTL Low(V)	TTL High	
	0-0.3	3~5V	1.4mA

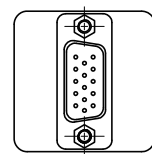
Indicators	Withstand Voltage V (max)	Current capacity mA(max)	Resistance Ω (max)
	50	100	15

* Connect VDC & GND before the function operates

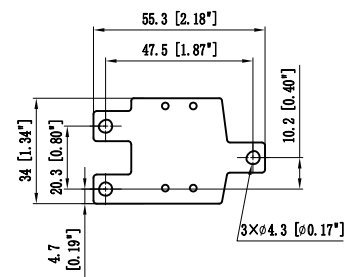
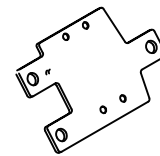
◆ Outline Drawing



L = 54.8(Non TTL/TTL/Indicators)



Unit: mm(Inch)



Unit: mm(Inch)

◆ Product Functions

- DC to 26.5GHz
- Low loss, Low VSWR, High Isolation
- SMA Connector
- Selectable TTL driver control

◆ Backplane

◆ Specifications

Switching Sequence: Break before Make

Mechanical Life Cycles: 2 million cycles

Mechanical Shock, Non-Operating: 50G, 1/2 Sine, 11 ms

Switching Time: 15ms max

RF Connectors: SMA Female

Vibration Operating: 20-2000 Hz, 10G RMS

Storage temperature: -55°C~85°C

Impedance: 50Ω

Actuator Terminals: D-SUB 15Pin Male

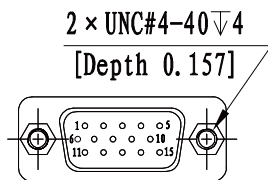
Operating temperature: -25°C~65°C(Standard)

-45°C~85°C(Extended1)

-55°C~85°C(Extended2)

Weight: 100g





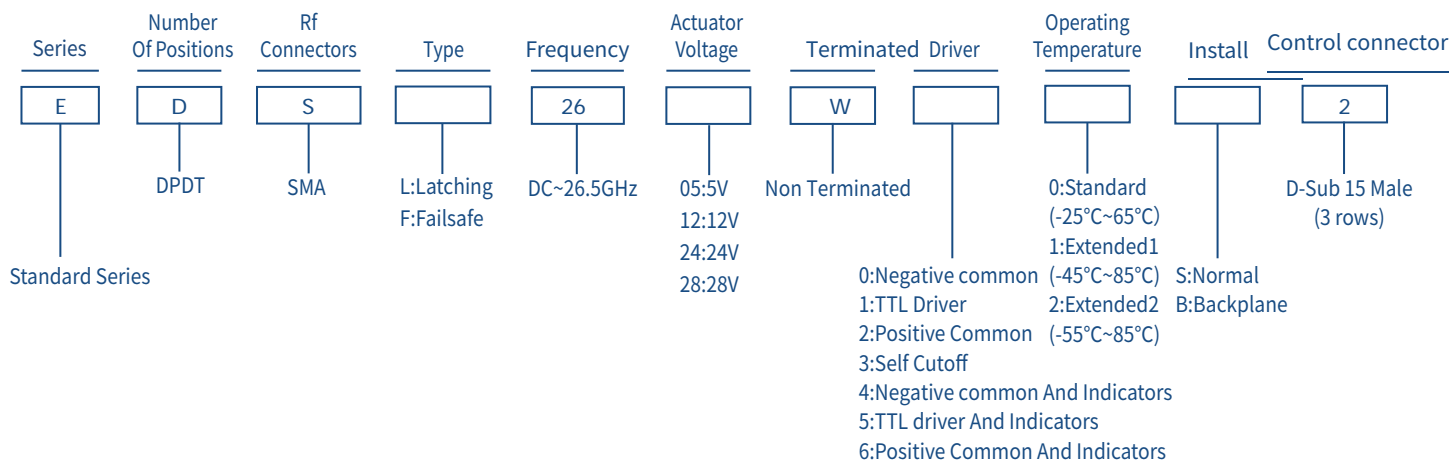
DB15 male

◆ Truth Table

Failsafe Non TTL			Failsafe TTL		
Actuator Terminals		RF Connector	Actuator Terminals		RF Connector
D-SUB 15Pin Male			D-SUB 15Pin Male		
Pin No.	Define	No Power,RF 1-2,3-4	Pin No.	Define	No Power,RF 1-2,3-4
1	GND	-	1	VDC	-
2	V	RF 1-3,2-4	2	GND	-
3~11	N/A	-	3	TTL	RF 1-3,2-4
12	VDC	-	4~12	N/A	-
13	Ind.1	Indicators	13	Ind.1	Indicators
14	Ind.2		14	Ind.2	
15	Ind.com		15	Ind.com	
		RF 1-2,3-4			RF 1-2,3-4
		RF 1-3,2-4			RF 1-3,2-4
		-			-

Latching Non TTL			Latching TTL		
Actuator Terminals		RF Connector	Actuator Terminals		RF Connector
D-SUB 15Pin Male			D-SUB 15Pin Male		
Pin No.	Define	-	Pin No.	Define	-
1	V1	RF 1-2,3-4	1	VDC	-
2	V2	RF 1-3,2-4	2	GND	-
3	GND	-	3	TTL	RF 1-2,3-4
4~11	N/A	-	4	TTL	RF 1-3,2-4
12	VDC	-	5~12	N/A	-
13	Ind.1	Indicators	13	Ind.1	Indicators
14	Ind.2		14	Ind.2	
15	Ind.com		15	Ind.com	
		RF 1-2,3-4			RF 1-2,3-4
		RF 1-3,2-4			RF 1-3,2-4
		-			-

◆ Product Selection



★ EXP: EDSL2605W00S2: Standard Series、DPDT、SMA、Latching、DC-26.5GHz、5V、Non Terminated、Negative common、Standard、Normal、D-Sub 15 Male.

◆ COAXIAL SWITCH

DPDT 40GHz Failsafe / Latching

◆ RF Characteristics

Frequency (GHz)	Ins.loss (dB)	Isolation (dB)	VSWR	RF Power CW (W)
DC-6	0.3	70	1.3	40
6-12	0.4	70	1.4	30
12-18	0.5	55	1.5	25
18-26.5	0.7	50	1.7	12
26.5-32	0.8	50	1.8	8
32-40	0.9	50	1.9	5



◆ Operating Voltage/Coil Current

Operating Voltage(V)	12	24	28
Coil Current (mA)	Failsafe	350	180
	Latching	400	185

* It can be selected according to user requirements

TTL	TTL Low(V)	TTL High	
	0-0.3	3~5V	1.4mA

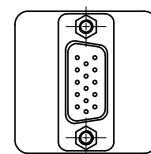
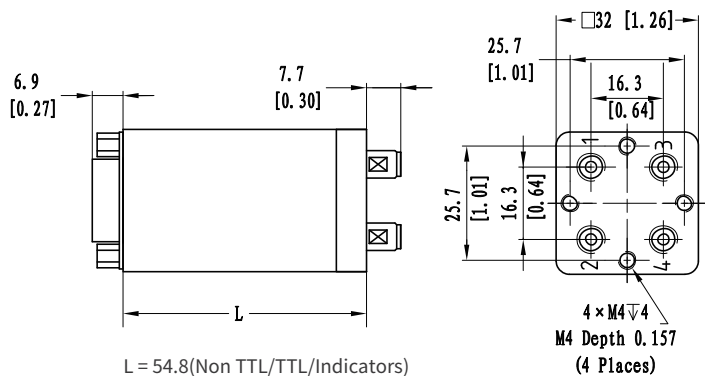
Indicators	Withstand Voltage V (max)	Current capacity mA(max)	Resistance Ω (max)
	50	100	15

* Connect VDC & GND before the function operates

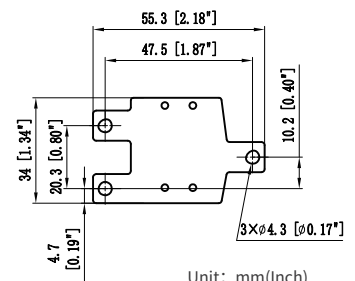
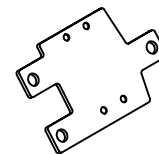
◆ Product Functions

- DC to 40GHz
- Low loss, Low VSWR, High Isolation
- 2.92 Connector
- Selectable TTL driver control

◆ Outline Drawing



Unit: mm(Inch)



Unit: mm(Inch)

◆ Backplane

◆ Specifications

Switching Sequence: Break before Make

Switching Time: 15ms max

Storage temperature: -55°C~85°C

Operating temperature: -25°C~65°C(Standard)
-45°C~85°C(Extended1)
-55°C~85°C(Extended2)

Mechanical Life Cycles: 2 million cycles

RF Connectors: 2.92 Female

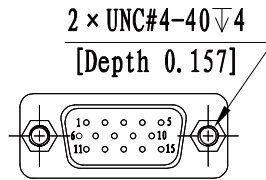
Impedance: 50Ω

Mechanical Shock, Non-Operating: 50G、1/2 Sine、11 ms

Vibration Operating: 20-2000 Hz、10G RMS

Actuator Terminals: D-SUB 15Pin Male

Weight: 100g



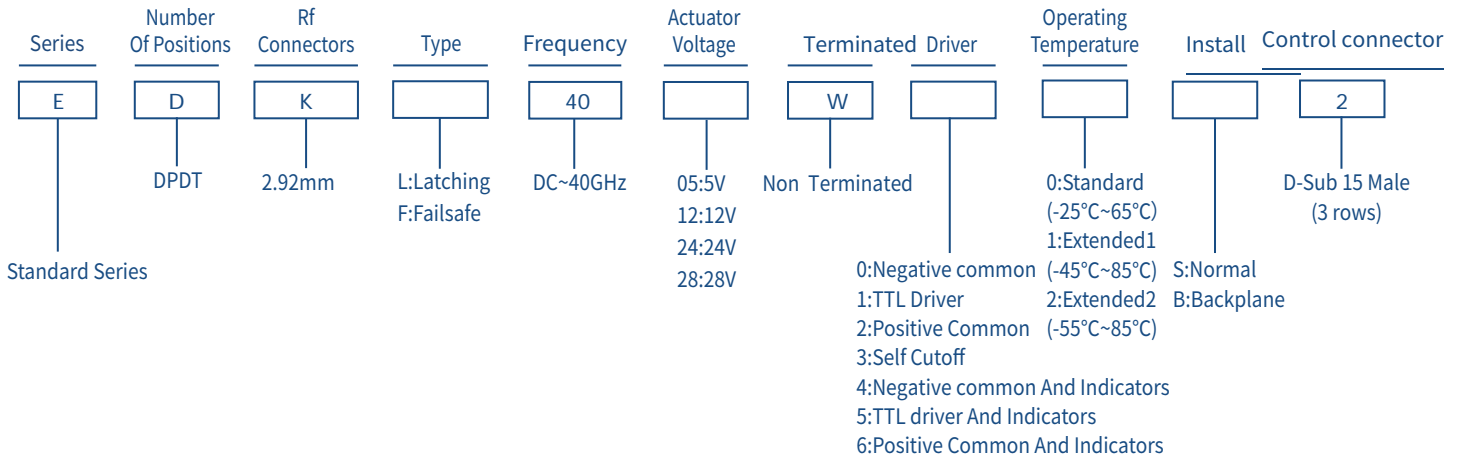
DB15 male

◆ Truth Table

Failsafe Non TTL			Failsafe TTL			
Actuator Terminals		RF Connector	Actuator Terminals		RF Connector	
D-SUB 15Pin Male			D-SUB 15Pin Male			
Pin No.	Define	No Power,RF 1-2,3-4	Pin No.	Define	No Power,RF 1-2,3-4	
1	GND	-	1	VDC	-	
2	V	RF 1-3,2-4	2	GND	-	
3~11	N/A	-	3	TTL	RF 1-3,2-4	
12	VDC	Indicators	4~12	N/A	-	
13	Ind.1		RF 1-2,3-4	13	Ind.1	RF 1-2,3-4
14	Ind.2		RF 1-3,2-4	14	Ind.2	RF 1-3,2-4
15	Ind.com		-	15	Ind.com	-

Latching Non TTL			Latching TTL			
Actuator Terminals		RF Connector	Actuator Terminals		RF Connector	
D-SUB 15Pin Male			D-SUB 15Pin Male			
Pin No.	Define	-	Pin No.	Define	-	
1	V1	RF 1-2,3-4	1	VDC	-	
2	V2	RF 1-3,2-4	2	GND	-	
3	GND	-	3	TTL	RF 1-2,3-4	
4~11	N/A	-	4	TTL	RF 1-3,2-4	
12	VDC	Indicators	5~12	N/A	-	
13	Ind.1		RF 1-2,3-4	13	Ind.1	RF 1-2,3-4
14	Ind.2		RF 1-3,2-4	14	Ind.2	RF 1-3,2-4
15	Ind.com		-	15	Ind.com	-

◆ Product Selection



★ EXP: EDKL4005W00S2-: Standard Series, DPDT, 2.92mm, Latching, DC~40GHz, 5V, Non Terminated, Negative common, Standard, Normal, D-Sub 15 Male.

◆ COAXIAL SWITCH

DPDT 43.5GHz Failsafe / Latching

◆ RF Characteristics

Frequency (GHz)	Ins.loss (dB)	Isolation (dB)	VSWR	RF Power CW (W)
DC-6	0.3	70	1.3	40
6-12	0.4	70	1.4	30
12-18	0.5	60	1.5	25
18-26.5	0.7	55	1.7	12
26.5-32	0.8	50	1.8	8
32-40	0.9	50	1.9	5
40-43.5	1.0	50	2.0	4

◆ Operating Voltage/Coil Current

Operating Voltage(V)	12	24	28	
Coil Current (mA)	Failsafe	350	200	180
	Latching	400	200	185

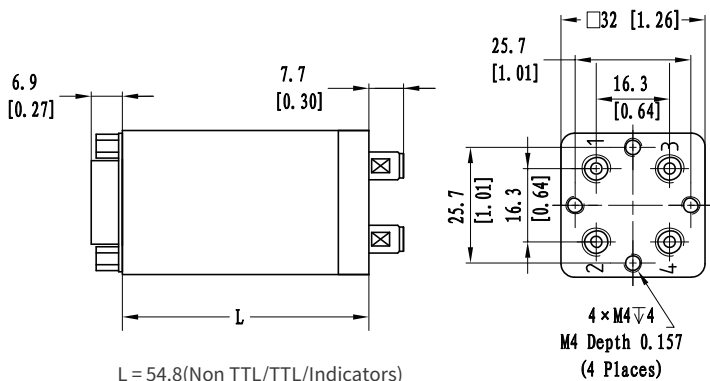
* It can be selected according to user requirements

TTL	TTL Low(V)	TTL High	
	0-0.3	3~5V	1.4mA

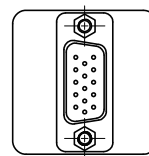
Indicators	Withstand Voltage V (max)	Current capacity mA (max)	Resistance Ω (max)
	50	100	15

* Connect VDC & GND before the function operates

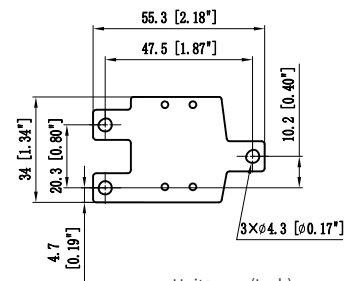
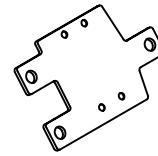
◆ Outline Drawing



L = 54.8(Non TTL/TTL/Indicators)



Unit: mm(Inch)



Unit: mm(Inch)



◆ Product Functions

- DC to 43.5GHz
- Low loss, Low VSWR, High Isolation
- 2.92 Connector
- Selectable TTL driver control

◆ Backplane

◆ Specifications

Switching Sequence: Break before Make

Switching Time: 15ms max

Storage temperature: -55°C~85°C

Operating temperature: -25°C~65°C(Standard)
-45°C~85°C(Extended1)
-55°C~85°C(Extended2)

Mechanical Life Cycles: 2 million cycles

RF Connectors: 2.92 Female

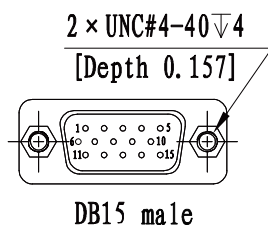
Impedance: 50Ω

Mechanical Shock, Non-Operating: 50G、1/2 Sine、11 ms

Vibration Operating: 20-2000 Hz、10G RMS

Actuator Terminals: D-SUB 15Pin Male

Weight: 100g

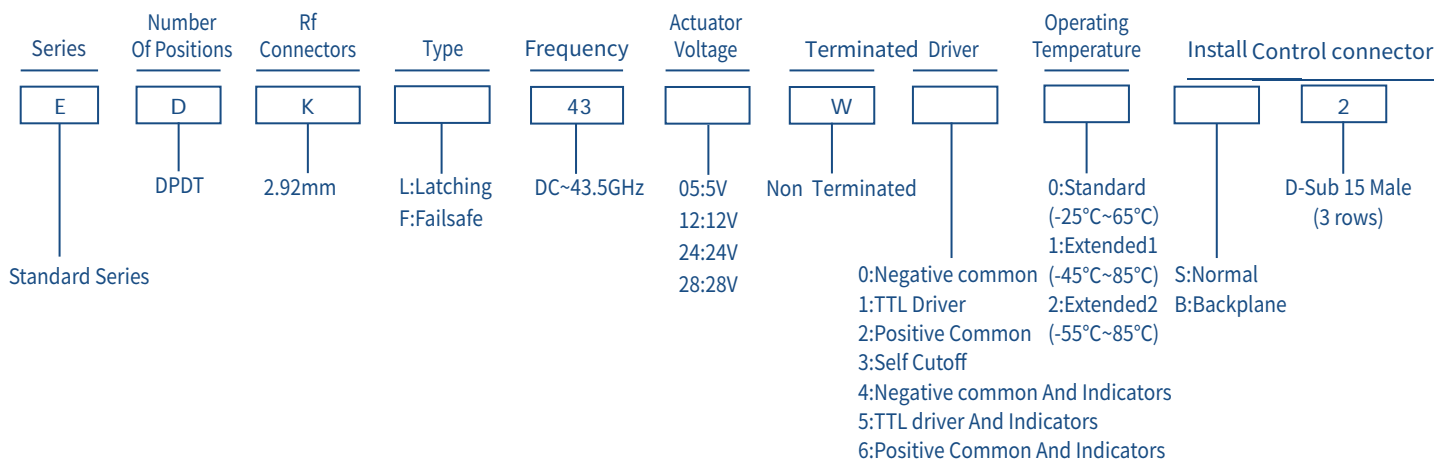


◆ Truth Table

Failsafe Non TTL				Failsafe TTL				
Actuator Terminals		RF Connector		Actuator Terminals		RF Connector		
D-SUB 15Pin Male				D-SUB 15Pin Male				
Pin No.	Define	No Power,RF 1-2,3-4		Pin No.	Define	No Power,RF 1-2,3-4		
1	GND	-		1	VDC	-		
2	V	RF 1-3,2-4		2	GND	-		
3~11	N/A	-		3	TTL	RF 1-3,2-4		
12	VDC	Indicators		4~12	N/A	-		
13	Ind.1			RF 1-2,3-4	13	Ind.1	RF 1-2,3-4	
14	Ind.2			RF 1-3,2-4	14	Ind.2	RF 1-3,2-4	
15	Ind.com			-	15	Ind.com	-	

Latching Non TTL				Latching TTL				
Actuator Terminals		RF Connector		Actuator Terminals		RF Connector		
D-SUB 15Pin Male				D-SUB 15Pin Male				
Pin No.	Define	-		Pin No.	Define	-		
1	V1	RF 1-2,3-4		1	VDC	-		
2	V2	RF 1-3,2-4		2	GND	-		
3	GND	-		3	TTL	RF 1-2,3-4		
4~11	N/A	-		4	TTL	RF 1-3,2-4		
12	VDC	Indicators		5~12	N/A	-		
13	Ind.1			RF 1-2,3-4	13	Ind.1	RF 1-2,3-4	
14	Ind.2			RF 1-3,2-4	14	Ind.2	RF 1-3,2-4	
15	Ind.com			-	15	Ind.com	-	

◆ Product Selection



★ EXP: EDKL4305W00S2: Standard Series、DPDT、2.92mm、Latching、DC~43.5GHz、5V、Non Terminated、Negative common、Standard、Normal、D-Sub 15 Male.

◆ COAXIAL SWITCH

DPDT 50GHz Failsafe / Latching

◆ RF Characteristics

Frequency (GHz)	Ins.loss (dB)	Isolation (dB)	VSWR	RF Power CW (W)
DC-6	0.3	70	1.3	40
6-12	0.4	70	1.4	30
12-18	0.5	60	1.5	25
18-26.5	0.7	55	1.7	12
26.5-32	0.8	50	1.8	8
32-40	0.9	50	1.9	5
40-43	1.0	50	2.0	4
43-50	1.2	50	2.1	3



◆ Operating Voltage/Coil Current

Operating Voltage(V)	12	24	28
Coil Current (mA)	Failsafe	350	200
	Latching	400	200

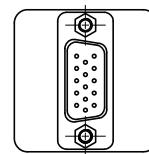
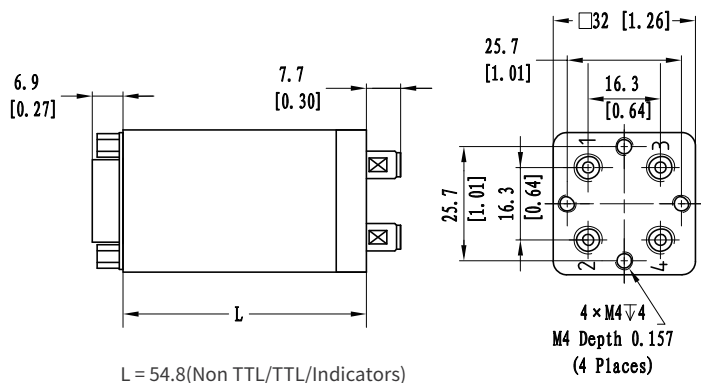
* It can be selected according to user requirements

TTL	TTL Low(V)	TTL High	
	0-0.3	3~5V	1.4mA

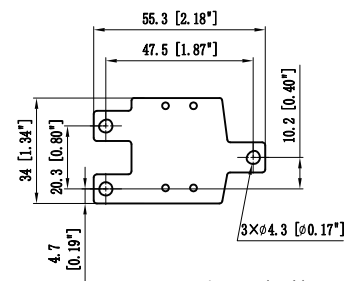
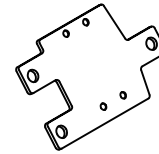
Indicators	Withstand Voltage V (max)	Current capacity mA (max)	Resistance Ω (max)
	50	100	15

* Connect VDC & GND before the function operates

◆ Outline Drawing



Unit: mm(Inch)



Unit: mm(Inch)

◆ Product Functions

- DC to 50GHz
- Low loss, Low VSWR, High Isolation
- 1.85 Connector
- Selectable TTL driver control

◆ Backplane

◆ Specifications

Switching Sequence: Break before Make

Switching Time: 15ms max

Storage temperature: -55°C~85°C

Operating temperature: -25°C~65°C(Standard)
-45°C~85°C(Extended1)
-55°C~85°C(Extended2)

Mechanical Life Cycles: 2 million cycles

RF Connectors: 1.85 Female

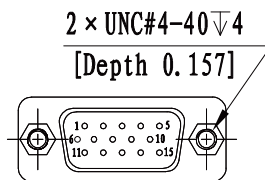
Impedance: 50Ω

Mechanical Shock,Non-Operating: 50G、1/2 Sine、11 ms

Vibration Operating: 20-2000 Hz、10G RMS

Actuator Terminals: D-SUB 15Pin Male

Weight: 100g



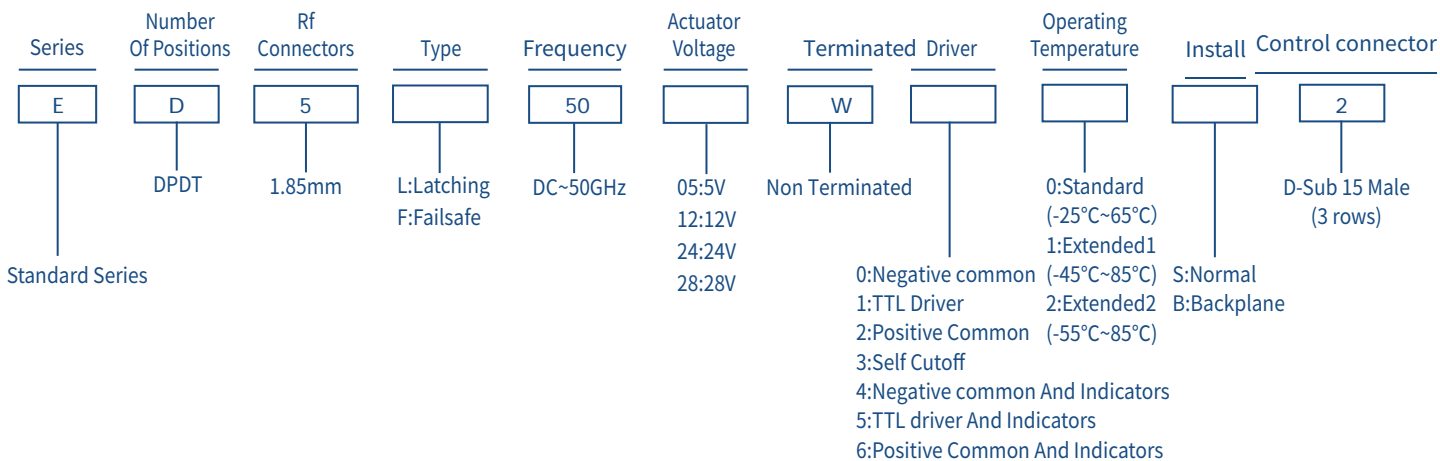
DB15 male

◆ Truth Table

Failsafe Non TTL				Failsafe TTL				
Actuator Terminals		RF Connector		Actuator Terminals		RF Connector		
D-SUB 15Pin Male				D-SUB 15Pin Male				
Pin No.	Define	No Power,RF 1-2,3-4		Pin No.	Define	No Power,RF 1-2,3-4		
1	GND	-		1	VDC	-		
2	V	RF 1-3,2-4		2	GND	-		
3~11	N/A	-		3	TTL	RF 1-3,2-4		
12	VDC	Indicators		4~12	N/A	-		
13	Ind.1			RF 1-2,3-4	13	Ind.1	RF 1-2,3-4	
14	Ind.2			RF 1-3,2-4	14	Ind.2	RF 1-3,2-4	
15	Ind.com	-		15	Ind.com	-		

Latching Non TTL				Latching TTL				
Actuator Terminals		RF Connector		Actuator Terminals		RF Connector		
D-SUB 15Pin Male				D-SUB 15Pin Male				
Pin No.	Define	-		Pin No.	Define	-		
1	V1	RF 1-2,3-4		1	VDC	-		
2	V2	RF 1-3,2-4		2	GND	-		
3	GND	-		3	TTL	RF 1-2,3-4		
4~11	N/A	-		4	TTL	RF 1-3,2-4		
12	VDC	Indicators		5~12	N/A	-		
13	Ind.1			RF 1-2,3-4	13	Ind.1	RF 1-2,3-4	
14	Ind.2			RF 1-3,2-4	14	Ind.2	RF 1-3,2-4	
15	Ind.com	-		15	Ind.com	-		

◆ Product Selection



★ EXP: ED5L5005W00S2: Standard Series、DPDT、1.85mm、Latching、DC-50GHz、5V、Non Terminated、Negative common、Standard、Normal、D-Sub 15 Male.

◆ COAXIAL SWITCH

DPDT 53GHz Failsafe / Latching

◆ RF Characteristics

Frequency (GHz)	Ins.loss (dB)	Isolation (dB)	VSWR	RF Power CW (W)
DC-6	0.3	70	1.2	50
6-12	0.4	70	1.3	40
12-18	0.5	60	1.3	40
18-26.5	0.7	55	1.4	20
26.5-32	0.8	50	1.4	20
32-40	0.9	50	1.7	10
40-43	1.0	50	1.7	10
43-50	1.2	50	1.8	5
50-53	1.5	50	1.8	5

◆ Operating Voltage/Coil Current

Operating Voltage(V)		12	24	28
Coil Current (mA)	Failsafe	350	200	180
	Latching	400	200	185

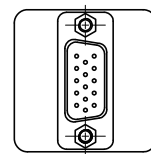
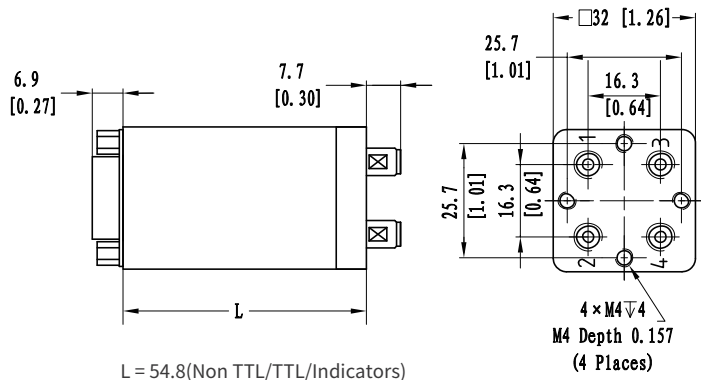
* It can be selected according to user requirements

TTL	TTL Low(V)	TTL High	
	0-0.3	3~5V	1.4mA

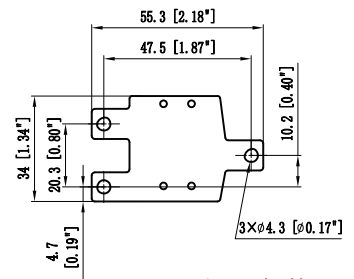
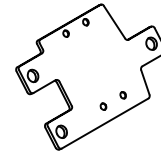
Indicators	Withstand Voltage V (max)	Current capacity mA (max)	Resistance Ω (max)
	50	100	15

* Connect VDC & GND before the function operates

◆ Outline Drawing



Unit: mm(Inch)



Unit: mm(Inch)



◆ Product Functions

- DC to 53GHz
- Low loss, Low VSWR, High Isolation
- 1.85 Connector
- Selectable TTL driver control

◆ Backplane

◆ Specifications

Switching Sequence: Break before Make

Switching Time: 15ms max

Storage temperature: -55°C~85°C

Operating temperature: -25°C~65°C(Standard)
-45°C~85°C(Extended1)
-55°C~85°C(Extended2)

Mechanical Life Cycles: 2 million cycles

RF Connectors: 1.85 Female

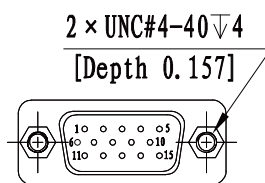
Impedance: 50Ω

Mechanical Shock, Non-Operating: 50G, 1/2 Sine, 11 ms

Vibration Operating: 20-2000 Hz, 10G RMS

Actuator Terminals: D-SUB 15Pin Male

Weight: 100g



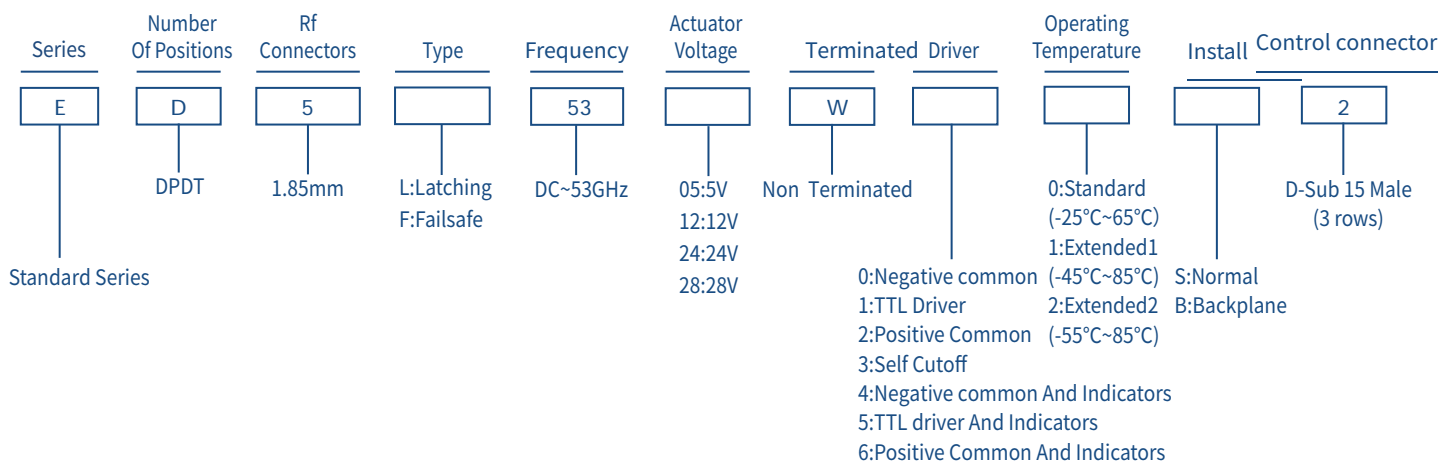
DB15 male

◆ Truth Table

Failsafe Non TTL				Failsafe TTL				
Actuator Terminals		RF Connector		Actuator Terminals		RF Connector		
D-SUB 15Pin Male				D-SUB 15Pin Male				
Pin No.	Define	No Power,RF 1-2,3-4		Pin No.	Define	No Power,RF 1-2,3-4		
1	GND	-		1	VDC	-		
2	V	RF 1-3,2-4		2	GND	-		
3~11	N/A	-		3	TTL	RF 1-3,2-4		
12	VDC	Indicators		4~12	N/A	-		
13	Ind.1			RF 1-2,3-4	13	Ind.1	RF 1-2,3-4	
14	Ind.2			RF 1-3,2-4	14	Ind.2	RF 1-3,2-4	
15	Ind.com			-	15	Ind.com	-	

Latching Non TTL				Latching TTL				
Actuator Terminals		RF Connector		Actuator Terminals		RF Connector		
D-SUB 15Pin Male				D-SUB 15Pin Male				
Pin No.	Define	-		Pin No.	Define	-		
1	V1	RF 1-2,3-4		1	VDC	-		
2	V2	RF 1-3,2-4		2	GND	-		
3	GND	-		3	TTL	RF 1-2,3-4		
4~11	N/A	-		4	TTL	RF 1-3,2-4		
12	VDC	Indicators		5~12	N/A	-		
13	Ind.1			RF 1-2,3-4	13	Ind.1	RF 1-2,3-4	
14	Ind.2			RF 1-3,2-4	14	Ind.2	RF 1-3,2-4	
15	Ind.com			-	15	Ind.com	-	

◆ Product Selection



★ EXP: ED5L5305W00S2: Standard Series、DPDT、1.85mm、Latching、DC-53GHz、5V、Non Terminated、Negative common、Standard、Normal、D-Sub 15 Male.

◆ COAXIAL SWITCH

SPDT 18GHz Terminated Failsafe / Latching

◆ RF Characteristics

Frequency (GHz)	Ins.loss (dB)	Isolation (dB)	VSWR	RF Power CW (W)
DC-6	0.3	70	1.3	80
6-12	0.4	60	1.4	60
12-18	0.5	55	1.5	50

◆ Operating Voltage/Coil Current

Operating Voltage(V)		12	24	28
Coil Current (mA)	Failsafe	350	200	180
	Latching	400	200	180

* It can be selected according to user requirements

TTL	TTL Low(V)	TTL High	
	0-0.3	3~5V	20mA

Indicators	Withstand Voltage V (max)	Current capacity mA(max)	Resistance Ω (max)
	50	100	15

* Connect VDC&GND before the function operates

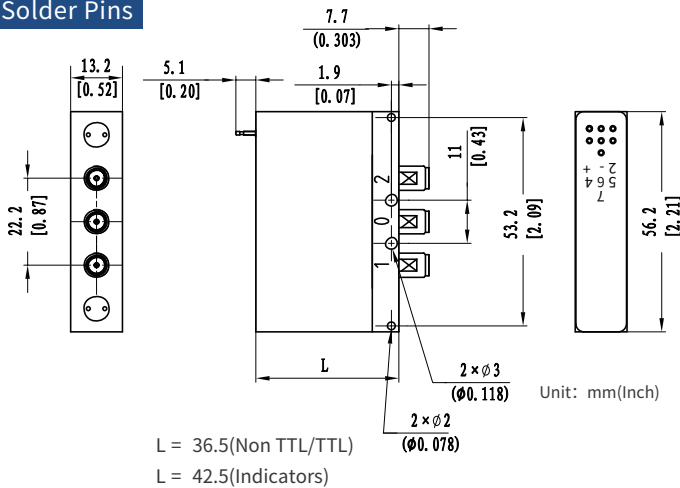


◆ Product Functions

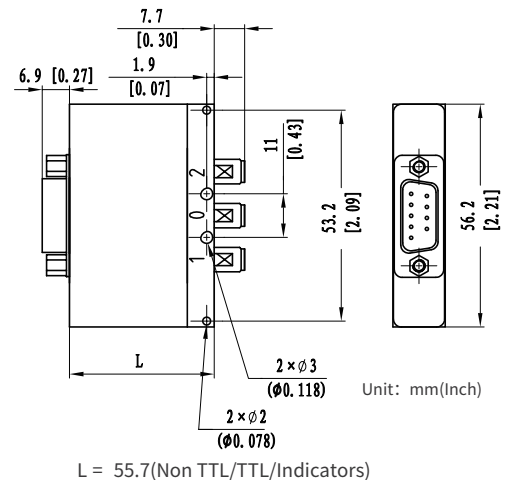
- DC to 18GHz
- Low loss, Low VSWR, High Isolation
- SMA Connector
- Selectable TTL driver control

◆ Outline Drawing

Solder Pins



D-SUB Male



◆ Specifications

Switching Sequence: Break before Make

Switching Time: 15ms max

Storage temperature: -55°C~85°C

Operating temperature: -25°C~65°C(Standard)
-45°C~85°C(Extended1)
-55°C~85°C(Extended2)

Mechanical Life Cycles: 2 million cycles

RF Connectors: SMA Female

Impedance: 50Ω

Mechanical Shock,Non-Operating: 50G、1/2 Sine、11 ms

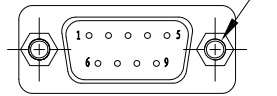
Vibration Operating: 20-2000 Hz、10G RMS

Actuator Terminals: Solder Pins/D-SUB 9Pin Male

Weight: 70g

2 × UNC#4-40▽4

[Depth 0.157]



DB9 male

◆ Truth Table

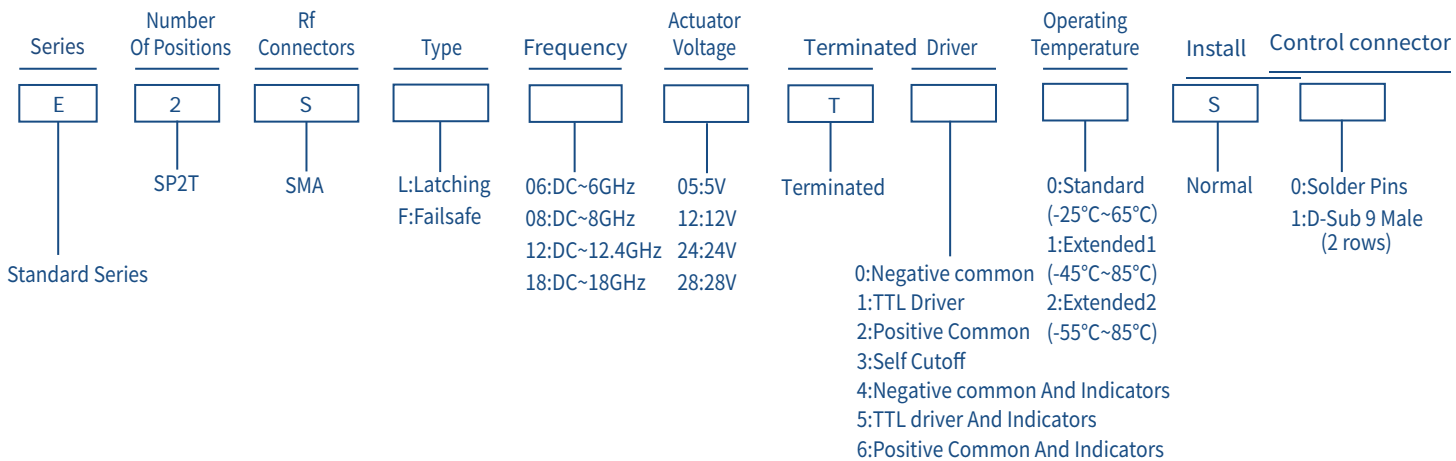
Failsafe Non TTL		
Actuator Terminals		RF Connector
Solder Pins/D-SUB 9Pin Male		
Pin No.	Define	No Power,RF 1-0
1	V	RF 2-0
2	N/A	-
3	GND	-
4	Ind.1	Indicators RF 1-0
5	Ind.2	
6	Ind.com	
7	VDC	
8-9	N/A	-

Failsafe TTL		
Actuator Terminals		RF Connector
Solder Pins/D-SUB 9Pin Male		
Pin No.	Define	No Power,RF 1-0
1	VDC	RF 2-0
2	TTL	-
3	GND	-
4	Ind.1	Indicators RF 1-0
5	Ind.2	
6	Ind.com	
7-9	N/A	-

Latching Non TTL		
Actuator Terminals		RF Connector
Solder Pins/D-SUB 9Pin Male		
Pin No.	Define	-
1	V1	RF 1-0
2	V2	RF 2-0
3	GND	-
4	Ind.1	Indicators RF 1-0
5	Ind.2	
6	Ind.com	
7	VDC	
8-9	N/A	-

Latching TTL		
Actuator Terminals		RF Connector
Solder Pins/D-SUB 9Pin Male		
Pin No.	Define	-
1	VDC	-
2	TTL	RF 1-0
3	GND	-
4	TTL	RF 2-0
5	Ind.1	Indicators RF 1-0
6	Ind.2	
7	Ind.com	
8-9	N/A	-

◆ Product Selection



★ EXP: E2SL0605T00S0: Standard Series、SP2T、SMA、Latching、DC~6GHz、5V、Terminated、Negative common、Standard、Normal、Solder Pins.

◆ COAXIAL SWITCH

SPDT 26.5GHz Terminated Failsafe / Latching

◆ RF Characteristics

Frequency (GHz)	Ins.loss (dB)	Isolation (dB)	VSWR	RF Power CW (W)
DC-6	0.3	70	1.3	80
6-12	0.4	60	1.4	60
12-18	0.5	55	1.5	50
18-26.5	0.6	50	1.6	15

◆ Operating Voltage/Coil Current

Operating Voltage(V)	12	24	28
Coil Current (mA)	Failsafe 350	200	180
	Latching 400	200	180

* It can be selected according to user requirements

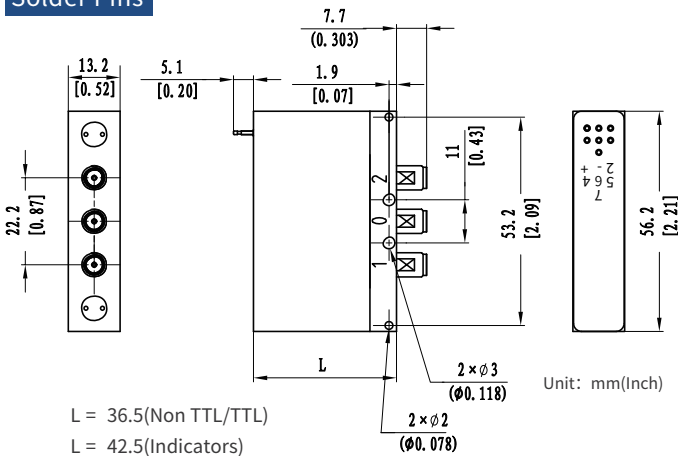
TTL	TTL Low(V)	TTL High	
	0-0.3	3~5V	20mA

Indicators	Withstand Voltage V (max)	Current capacity mA(max)	Resistance Ω (max)
	50	100	15

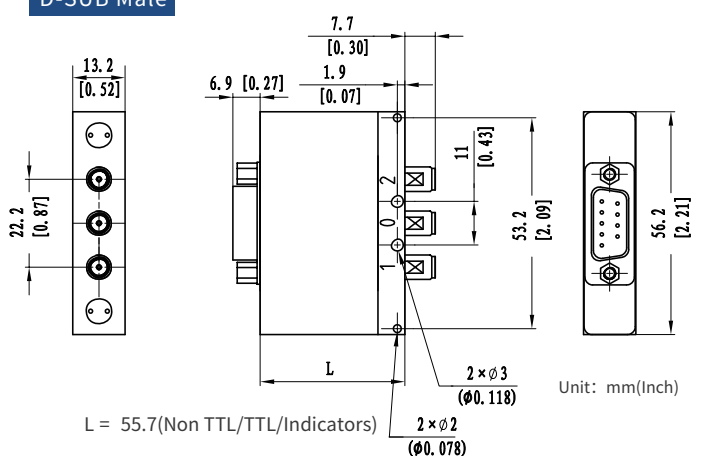
* Connect VDC & GND before the function operates

◆ Outline Drawing

Solder Pins



D-SUB Male



◆ Product Functions

- DC to 26.5GHz
- Low loss, Low VSWR, High Isolation
- SMA Connector
- Selectable TTL driver control

◆ Specifications

Switching Sequence: Break before Make

Switching Time: 15ms max

Storage temperature: -55°C~85°C

Operating temperature: -25°C~65°C(Standard)
-45°C~85°C(Extended1)
-55°C~85°C(Extended2)

Mechanical Life Cycles: 2 million cycles

RF Connectors: SMA Female

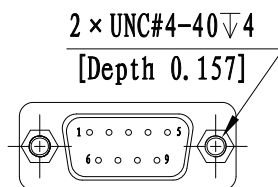
Impedance: 50Ω

Mechanical Shock,Non-Operating: 50G、1/2 Sine、11 ms

Vibration Operating: 20-2000 Hz、10G RMS

Actuator Terminals: Solder Pins/D-SUB 9Pin Male

Weight: 70g



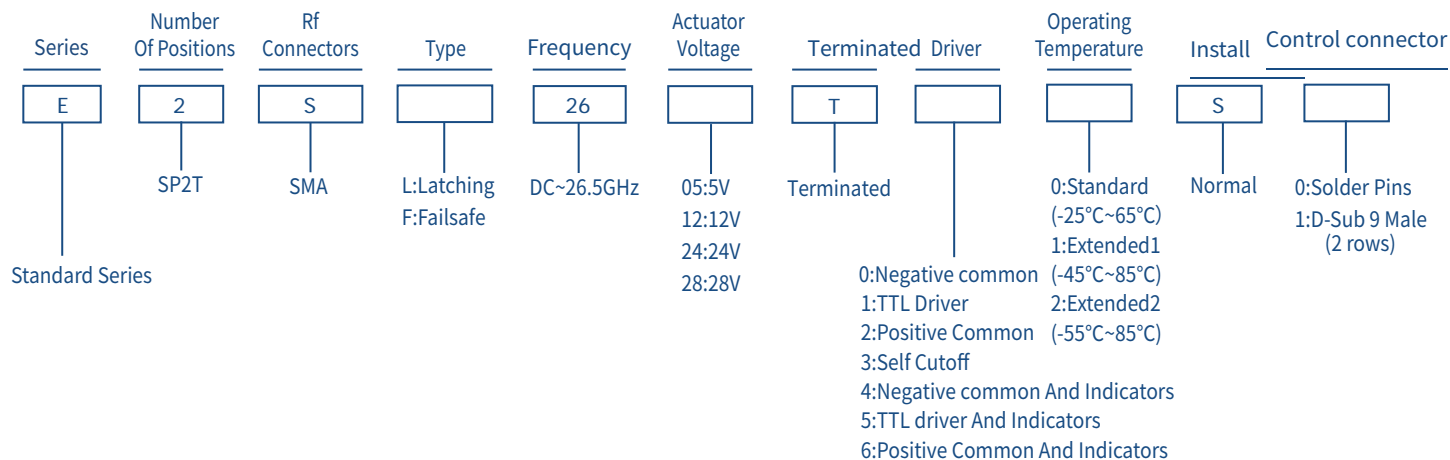
DB9 male

◆ Truth Table

Failsafe Non TTL				Failsafe TTL			
Actuator Terminals			RF Connector	Actuator Terminals			RF Connector
Solder Pins/D-SUB 9Pin Male				Solder Pins/D-SUB 9Pin Male			
Pin No.	Define		No Power,RF 1-0	Pin No.	Define		No Power,RF 1-0
1	V		RF 2-0	1	VDC		RF 2-0
2	N/A		-	2	TTL		-
3	GND		-	3	GND		-
4	Ind.1	Indicators	RF 1-0	4	Ind.1	Indicators	RF 1-0
5	Ind.2		RF 2-0	5	Ind.2		RF 2-0
6	Ind.com		-	6	Ind.com		-
7	VDC		-	7~9	N/A		-
8~9	N/A		-				

Latching Non TTL				Latching TTL			
Actuator Terminals			RF Connector	Actuator Terminals			RF Connector
Solder Pins/D-SUB 9Pin Male				Solder Pins/D-SUB 9Pin Male			
Pin No.	Define		-	Pin No.	Define		-
1	V1		RF 1-0	1	VDC		-
2	V2		RF 2-0	2	TTL		RF 1-0
3	GND		-	3	GND		-
4	Ind.1	Indicators	RF 1-0	4	TTL		RF 2-0
5	Ind.2		RF 2-0	5	Ind.1	Indicators	RF 1-0
6	Ind.com		-	6	Ind.2		RF 2-0
7	VDC		-	7	Ind.com		-
8~9	N/A		-	8~9	N/A		-

◆ Product Selection



★ EXP: E2SL2605T00S0: Standard Series, SP2T, SMA, Latching, DC~26.5GHz, 5V, Terminated, Negative common, Standard, Normal, Solder Pins.

◆ COAXIAL SWITCH

SPDT 40GHz Terminated Failsafe / Latching

◆ RF Characteristics

Frequency (GHz)	Ins.loss (dB)	Isolation (dB)	VSWR	RF Power CW (W)
DC-6	0.3	70	1.3	40
6-12	0.4	60	1.4	30
12-18	0.5	55	1.5	25
18-26.5	0.6	50	1.6	12
26.5-32	0.7	50	1.7	8
32-40	0.9	50	1.9	5

◆ Operating Voltage/Coil Current

Operating Voltage(V)		12	24	28
Coil Current (mA)	Failsafe	350	200	180
	Latching	400	200	185

* It can be selected according to user requirements

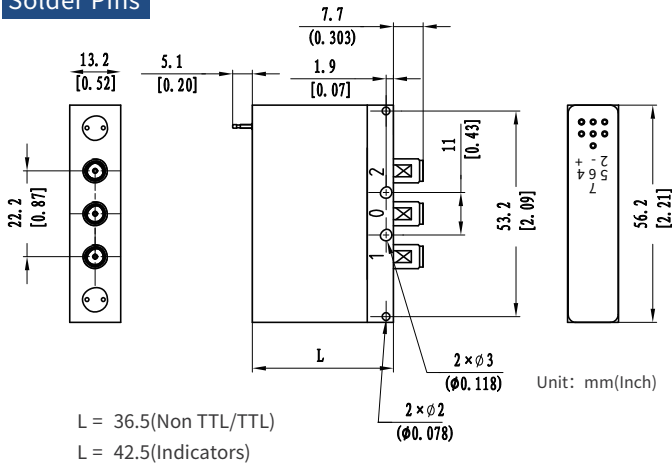
TTL	TTL Low(V)	TTL High	
	0-0.3	3~5V	20mA

Indicators	Withstand Voltage V (max)	Current capacity mA (max)	Resistance Ω (max)
	50	100	15

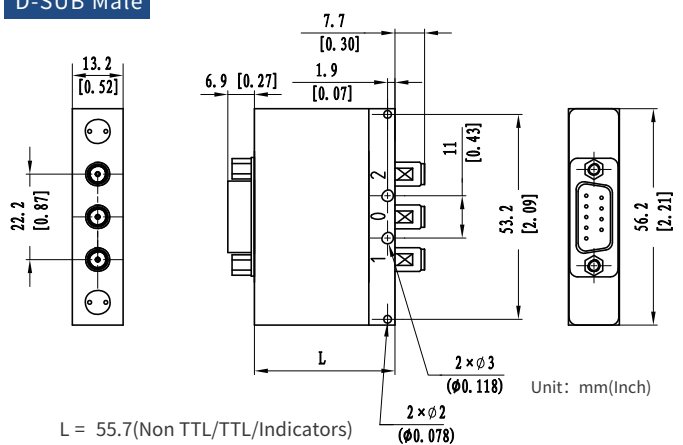
* Connect VDC & GND before the function operates

◆ Outline Drawing

Solder Pins



D-SUB Male



◆ Product Functions

- DC to 40GHz
- Low loss, Low VSWR, High Isolation
- 2.92 Connector
- Selectable TTL driver control

◆ Specifications

Switching Sequence: Break before Make

Switching Time: 15ms max

Storage temperature: -55°C~85°C

Operating temperature: -25°C~65°C(Standard)
-45°C~85°C(Extended1)
-55°C~85°C(Extended2)

Mechanical Life Cycles: 2 million cycles

RF Connectors: 2.92 Female

Impedance: 50Ω

Mechanical Shock, Non-Operating: 50G、1/2 Sine、11 ms

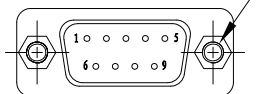
Vibration Operating: 20-2000 Hz、10G RMS

控制接口: 插针/D-SUB 9P / 插针/SMA 1P

Weight: 70g

2 × UNC#4-40▽4

[Depth 0.157]



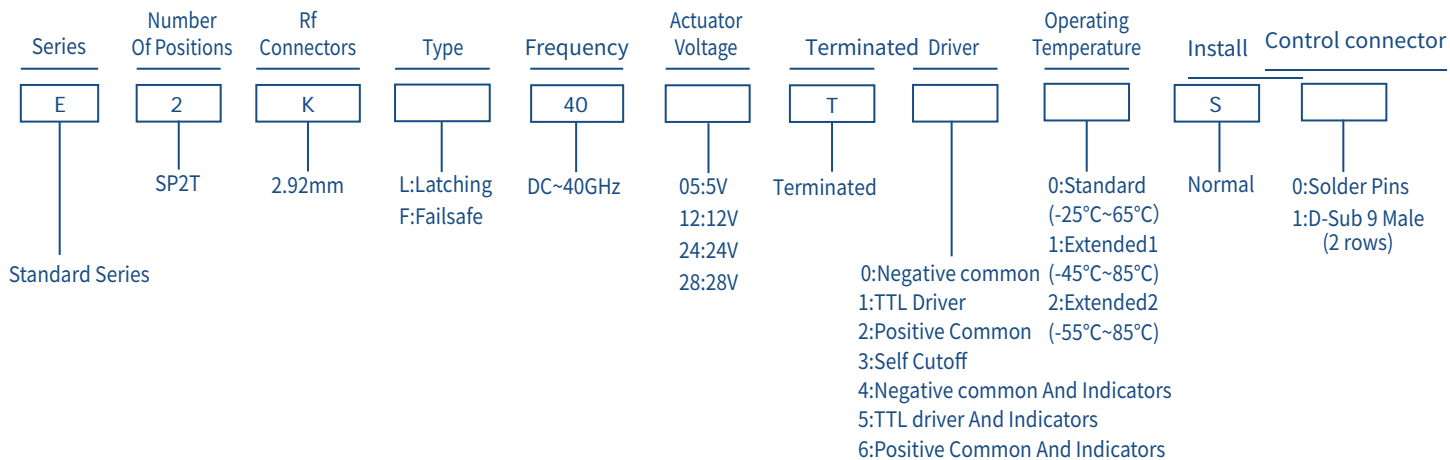
DB9 male

◆ Truth Table

Failsafe Non TTL				Failsafe TTL			
Actuator Terminals			RF Connector	Actuator Terminals			RF Connector
Solder Pins/D-SUB 9Pin Male				Solder Pins/D-SUB 9Pin Male			
Pin No.	Define		No Power,RF 1-0	Pin No.	Define		No Power,RF 1-0
1	V		RF 2-0	1	VDC		RF 2-0
2	N/A		-	2	TTL		-
3	GND		-	3	GND		-
4	Ind.1	Indicators	RF 1-0	4	Ind.1	Indicators	RF 1-0
5	Ind.2		RF 2-0	5	Ind.2		RF 2-0
6	Ind.com		-	6	Ind.com		-
7	VDC		-	7~9	N/A		-
8~9	N/A		-				

Latching Non TTL				Latching TTL			
Actuator Terminals			RF Connector	Actuator Terminals			RF Connector
Solder Pins/D-SUB 9Pin Male				Solder Pins/D-SUB 9Pin Male			
Pin No.	Define		-	Pin No.	Define		-
1	V1		RF 1-0	1	VDC		-
2	V2		RF 2-0	2	TTL		RF 1-0
3	GND		-	3	GND		-
4	Ind.1	Indicators	RF 1-0	4	TTL		RF 2-0
5	Ind.2		RF 2-0	5	Ind.1	Indicators	RF 1-0
6	Ind.com		-	6	Ind.2		RF 2-0
7	VDC		-	7	Ind.com		-
8~9	N/A		-	8~9	N/A		-

◆ Product Selection



★ EXP: E2KL4005T00S0: Standard Series、SP2T、2.92mm、Latching、DC~40GHz、5V、Terminated、Negative common、Standard、Normal、Solder Pins.

◆ COAXIAL SWITCH

SPDT 43.5GHz Terminated Failsafe / Latching

◆ RF Characteristics

Frequency (GHz)	Ins.loss (dB)	Isolation (dB)	VSWR	RF Power CW (W)
DC-6	0.3	70	1.3	40
6-12	0.4	70	1.4	30
12-18	0.5	60	1.5	25
18-26.5	0.7	55	1.7	12
26.5-32	0.8	50	1.8	8
32-40	0.9	50	1.9	5
40-43.5	1.0	50	2.0	4

◆ Operating Voltage/Coil Current

Operating Voltage(V)		12	24	28
Coil Current (mA)	Failsafe	350	200	180
	Latching	400	200	185

* It can be selected according to user requirements

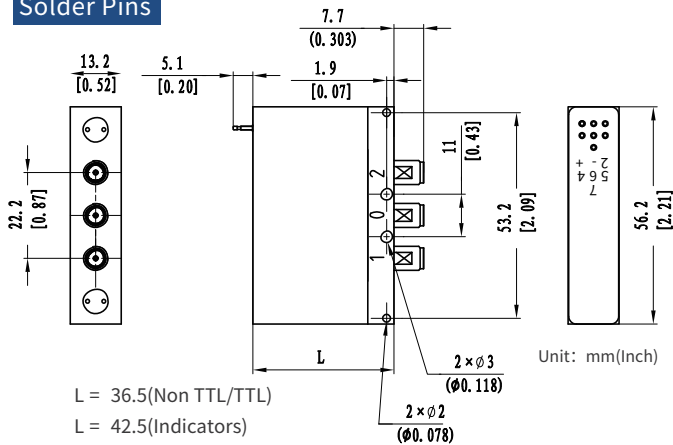
TTL	TTL Low(V)	TTL High	
	0-0.3	3~5V	20mA

Indicators	Withstand Voltage V (max)	Current capacity mA(max)	Resistance Ω (max)
	50	100	15

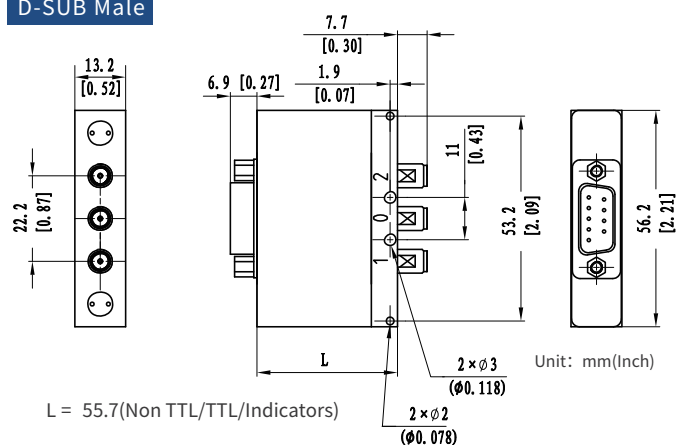
* Connect VDC & GND before the function operates

◆ Outline Drawing

Solder Pins



D-SUB Male



◆ Product Functions

- DC to 43.5GHz
- Low loss, Low VSWR, High Isolation
- 2.92 Connector
- Selectable TTL driver control

◆ Specifications

Switching Sequence: Break before Make

Switching Time: 15ms max

Storage temperature: -55°C~85°C

Operating temperature: -25°C~65°C(Standard)
-45°C~85°C(Extended1)
-55°C~85°C(Extended2)

Mechanical Life Cycles: 2 million cycles

RF Connectors: 2.92 Female

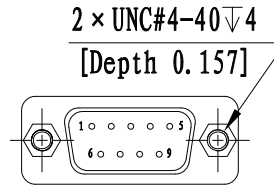
Impedance: 50Ω

Mechanical Shock, Non-Operating: 50G, 1/2 Sine, 11 ms

Vibration Operating: 20-2000 Hz, 10G RMS

Actuator Terminals: Solder Pins/D-SUB 9Pin Male

Weight: 70g



DB9 male

◆ Truth Table

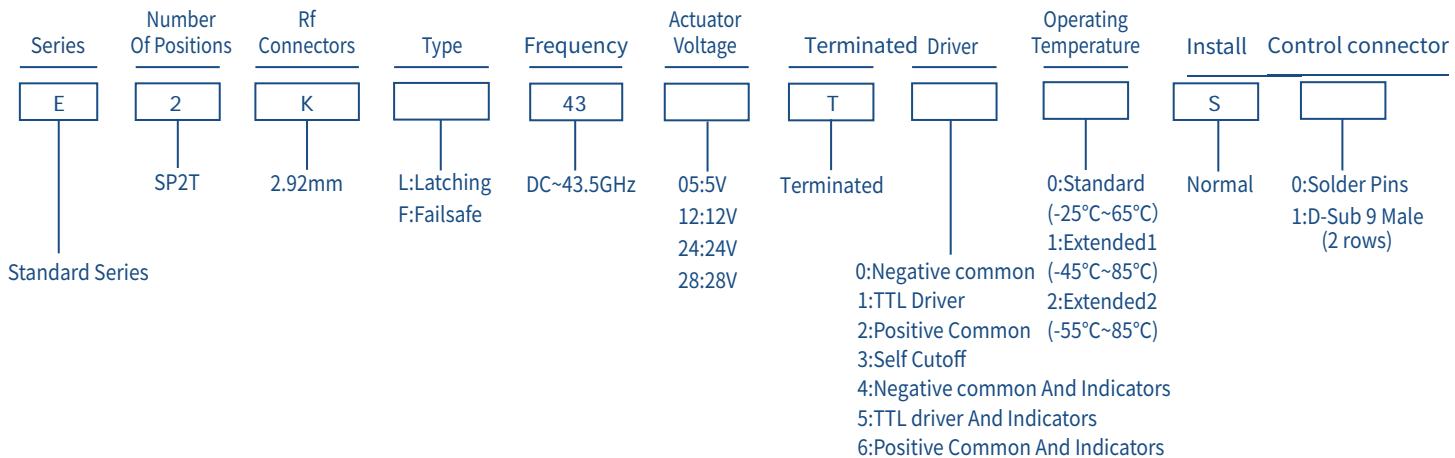
Failsafe Non TTL		
Actuator Terminals		RF Connector
Solder Pins/D-SUB 9Pin Male		
Pin No.	Define	No Power,RF 1-0
1	V	RF 2-0
2	N/A	-
3	GND	-
4	Ind.1	Indicators RF 1-0
5	Ind.2	
6	Ind.com	
7	VDC	
8~9	N/A	-

Failsafe TTL		
Actuator Terminals		RF Connector
Solder Pins/D-SUB 9Pin Male		
Pin No.	Define	No Power,RF 1-0
1	VDC	RF 2-0
2	TTL	-
3	GND	-
4	Ind.1	Indicators RF 1-0
5	Ind.2	
6	Ind.com	
7~9	N/A	-

Latching Non TTL		
Actuator Terminals		RF Connector
Solder Pins/D-SUB 9Pin Male		
Pin No.	Define	-
1	V1	RF 1-0
2	V2	RF 2-0
3	GND	-
4	Ind.1	Indicators RF 1-0
5	Ind.2	
6	Ind.com	
7	VDC	
8~9	N/A	-

Latching TTL		
Actuator Terminals		RF Connector
Solder Pins/D-SUB 9Pin Male		
Pin No.	Define	-
1	VDC	-
2	TTL	RF 1-0
3	GND	-
4	TTL	RF 2-0
5	Ind.1	Indicators RF 1-0
6	Ind.2	
7	Ind.com	
8~9	N/A	-

◆ Product Selection



★ EXP: E2KL4305T00S0: Standard Series, SP2T, 2.92mm, Latching, DC~43.5GHz, 5V, Terminated, Negative common, Standard, Normal, Solder Pins.

◆ COAXIAL SWITCH

SPDT 50GHz Terminated Failsafe / Latching

◆ RF Characteristics

Frequency (GHz)	Ins.loss (dB)	Isolation (dB)	VSWR	RF Power CW (W)
DC-6	0.3	70	1.3	40
6-12	0.4	60	1.4	30
12-18	0.5	55	1.5	25
18-26.5	0.6	50	1.6	12
26.5-32	0.8	50	1.8	8
32-40	0.9	50	1.9	5
40-43	1.0	50	2.0	4
43-50	1.1	50	2.1	3

◆ Operating Voltage/Coil Current

Operating Voltage(V)	12	24	28
Coil Current (mA)	Failsafe 350	200	180
	Latching 400	200	185

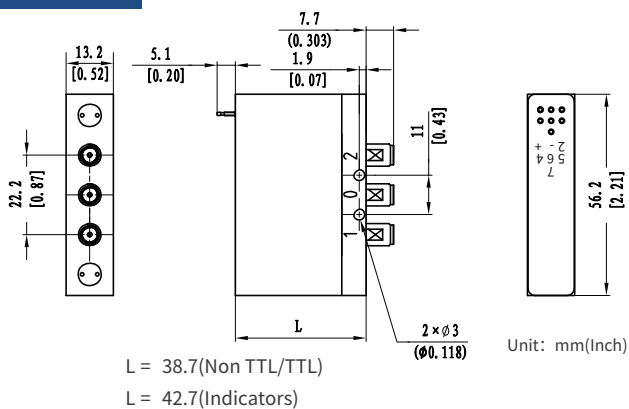
* It can be selected according to user requirements

TTL	TTL Low(V)	TTL High	
	0-0.3	3~5V	20mA
指示端 Indicators	Withstand Voltage V (max)	Current capacity mA (max)	Resistance Ω (max)
	50	100	15

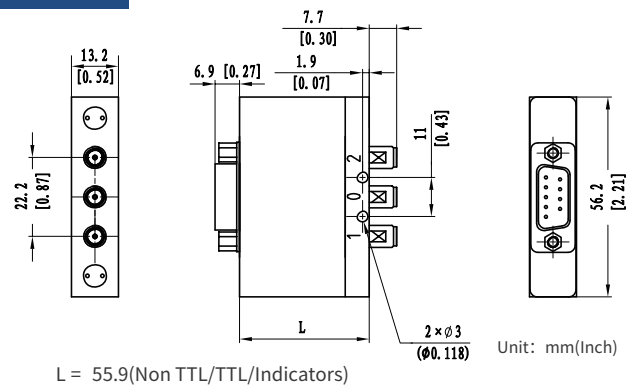
* Connect VDC&GND before the function operates

◆ Outline Drawing

Solder Pins



D-SUB Male



◆ Product Functions

- DC to 50GHz
- Low loss, Low VSWR, High Isolation
- 1.85 Connector
- Selectable TTL driver control

◆ Specifications

Switching Sequence: Break before Make

Switching Time: 15ms max

Storage temperature: -55°C~85°C

Operating temperature: -25°C~65°C(Standard)
-45°C~85°C(Extended1)
-55°C~85°C(Extended2)

Mechanical Life Cycles: 2 million cycles

RF Connectors: 1.85 Female

Impedance: 50Ω

Mechanical Shock,Non-Operating: 50G、1/2 Sine、11 ms

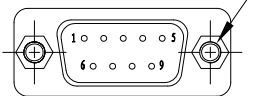
Vibration Operating: 20-2000 Hz、10G RMS

Actuator Terminals: Solder Pins/D-SUB 9Pin Male

Weight: 75g

2 × UNC#4-40▽4

[Depth 0.157]



DB9 male

◆ Truth Table

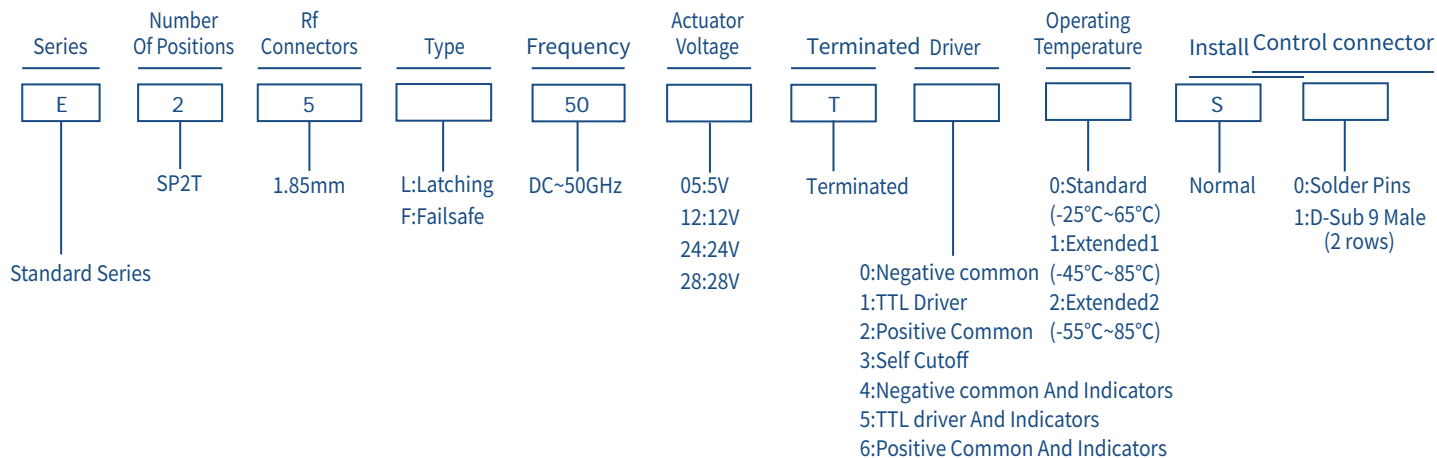
Failsafe Non TTL		
Actuator Terminals		RF Connector
Solder Pins/D-SUB 9Pin Male		
Pin No.	Define	No Power,RF 1-0
1	V	RF 2-0
2	N/A	-
3	GND	-
4	Ind.1	Indicators RF 1-0
5	Ind.2	
6	Ind.com	
7	VDC	
8~9	N/A	-

Failsafe TTL		
Actuator Terminals		RF Connector
Solder Pins/D-SUB 9Pin Male		
Pin No.	Define	No Power,RF 1-0
1	VDC	RF 2-0
2	TTL	-
3	GND	-
4	Ind.1	Indicators RF 1-0
5	Ind.2	
6	Ind.com	
7~9	N/A	-

Latching Non TTL		
Actuator Terminals		RF Connector
Solder Pins/D-SUB 9Pin Male		
Pin No.	Define	-
1	V1	RF 1-0
2	V2	RF 2-0
3	GND	-
4	Ind.1	Indicators RF 1-0
5	Ind.2	
6	Ind.com	
7	VDC	
8~9	N/A	-

Latching TTL		
Actuator Terminals		RF Connector
Solder Pins/D-SUB 9Pin Male		
Pin No.	Define	-
1	VDC	-
2	TTL	RF 1-0
3	GND	-
4	TTL	RF 2-0
5	Ind.1	Indicators RF 1-0
6	Ind.2	
7	Ind.com	
8~9	N/A	-

◆ Product Selection



★ EXP: E25L5005T00S0: Standard Series, SP2T, 1.85mm, Latching, DC~50GHz, 5V, Terminated, Negative common, Standard, Normal, Solder Pins.

◆ COAXIAL SWITCH

SPDT 53GHz Terminated Failsafe / Latching

◆ RF Characteristics

Frequency (GHz)	Ins.loss (dB)	Isolation (dB)	VSWR	RF Power CW (W)
DC-6	0.3	70	1.3	40
6-12	0.4	60	1.4	30
12-18	0.5	55	1.5	25
18-26.5	0.6	50	1.6	12
26.5-32	0.8	50	1.8	8
32-40	0.9	50	1.9	5
40-43	1.0	50	2.0	4
43-50	1.1	50	2.1	3
50-53	1.2	50	2.2	2

◆ Operating Voltage/Coil Current

Operating Voltage(V)	12	24	28
	Coil Current (mA)	Failsafe 350	200
	Latching 400	200	185

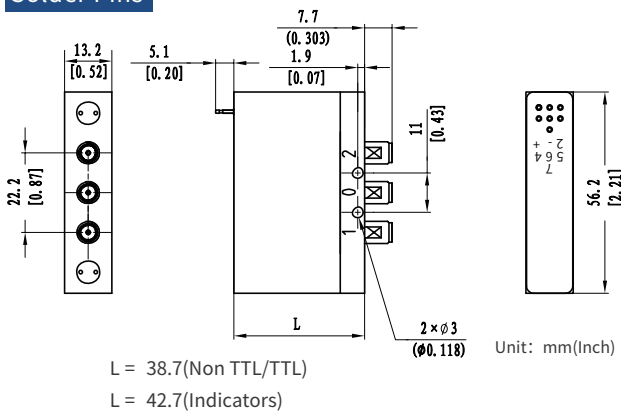
* It can be selected according to user requirements

TTL	TTL Low(V)	TTL High	
	0-0.3	3~5V	20mA
Indicators	Withstand Voltage V (max)	Current capacity mA(max)	Resistance Ω (max)
	50	100	15

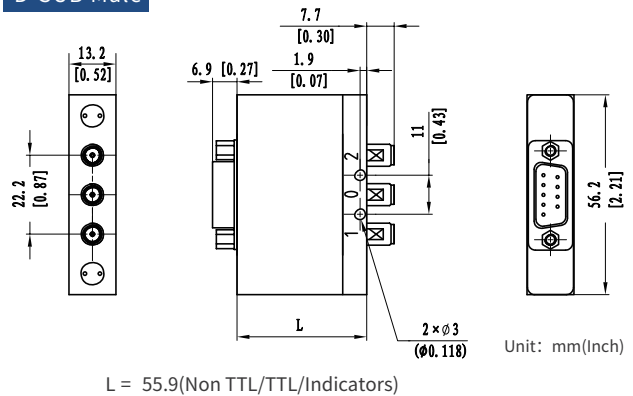
* Connect VDC & GND before the function operates

◆ Outline Drawing

Solder Pins



D-SUB Male



◆ Product Functions

- DC to 53GHz
- Low loss, Low VSWR, High Isolation
- 1.85 Connector
- Selectable TTL driver control

◆ Specifications

Switching Sequence: Break before Make

Switching Time: 15ms max

Storage temperature: -55°C~85°C

Operating temperature: -25°C~65°C(Standard)
-45°C~85°C(Extended1)
-55°C~85°C(Extended2)

Mechanical Life Cycles: 2 million cycles

RF Connectors: 1.85 Female

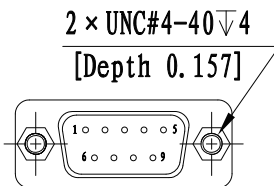
Impedance: 50Ω

Mechanical Shock, Non-Operating: 50G、1/2 Sine、11 ms

Vibration Operating: 20-2000 Hz、10G RMS

Actuator Terminals: Solder Pins/D-SUB 9Pin Male

Weight: 75g



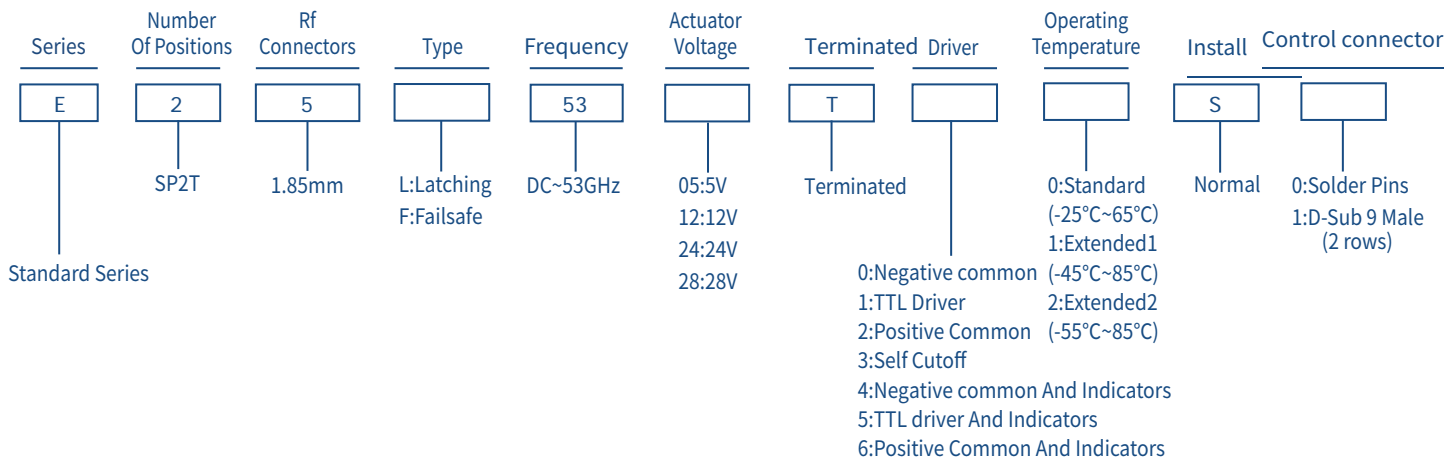
DB9 male

◆ Truth Table

Failsafe Non TTL				Failsafe TTL			
Actuator Terminals			RF Connector	Actuator Terminals			RF Connector
Solder Pins/D-SUB 9Pin Male				Solder Pins/D-SUB 9Pin Male			
Pin No.	Define		No Power,RF 1-0	Pin No.	Define		No Power,RF 1-0
1	V		RF 2-0	1	VDC		RF 2-0
2	N/A		-	2	TTL		-
3	GND		-	3	GND		-
4	Ind.1	Indicators	RF 1-0	4	Ind.1	Indicators	RF 1-0
5	Ind.2		RF 2-0	5	Ind.2		RF 2-0
6	Ind.com		-	6	Ind.com		-
7	VDC		-	7~9	N/A		-
8~9	N/A		-				

Latching Non TTL				Latching TTL			
Actuator Terminals			RF Connector	Actuator Terminals			RF Connector
Solder Pins/D-SUB 9Pin Male				Solder Pins/D-SUB 9Pin Male			
Pin No.	Define		-	Pin No.	Define		-
1	V1		RF 1-0	1	VDC		-
2	V2		RF 2-0	2	TTL		RF 1-0
3	GND		-	3	GND		-
4	Ind.1	Indicators	RF 1-0	4	TTL		RF 2-0
5	Ind.2		RF 2-0	5	Ind.1	Indicators	RF 1-0
6	Ind.com		-	6	Ind.2		RF 2-0
7	VDC		-	7	Ind.com		-
8~9	N/A		-	8~9	N/A		-

◆ Product Selection



★ EXP: E25L5305T00S0: Standard Series、SP2T、1.85mm、Latching、DC~53GHz、5V、Terminated、Negative common、Standard、Normal、Solder Pins.

◆ COAXIAL SWITCH

SPDT 67GHz Terminated Failsafe / Latching

◆ RF Characteristics

Frequency (GHz)	Ins.loss (dB)	Isolation (dB)	VSWR	RF Power CW (W)
DC-6	0.3	70	1.3	40
6-12	0.4	60	1.4	30
12-18	0.5	55	1.5	25
18-26.5	0.6	50	1.6	12
26.5-32	0.8	50	1.8	8
32-40	0.9	50	1.9	5
40-43	1.0	50	2.0	4
43-50	1.1	50	2.1	3
50-53	1.2	50	2.2	2
53-67	1.2	45	2.2	2

◆ Operating Voltage/Coil Current

Operating Voltage(V)	12	24	28	
Coil Current (mA)	Failsafe	350	200	180
	Latching	400	200	185

* It can be selected according to user requirements

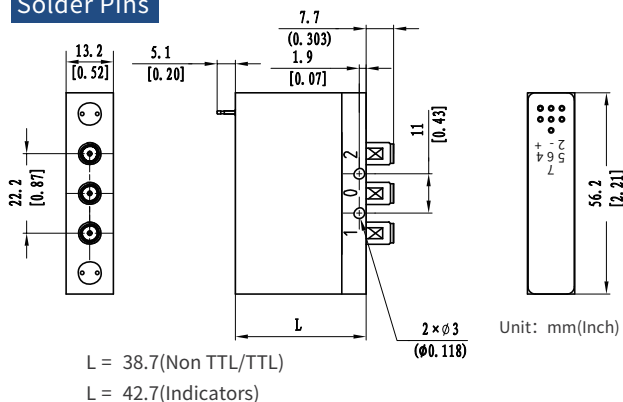
TTL	TTL Low(V)	TTL High	
	0-0.3	3~5V	20mA

Indicators	Withstand Voltage V (max)	Current capacity mA (max)	Resistance Ω (max)
	50	100	15

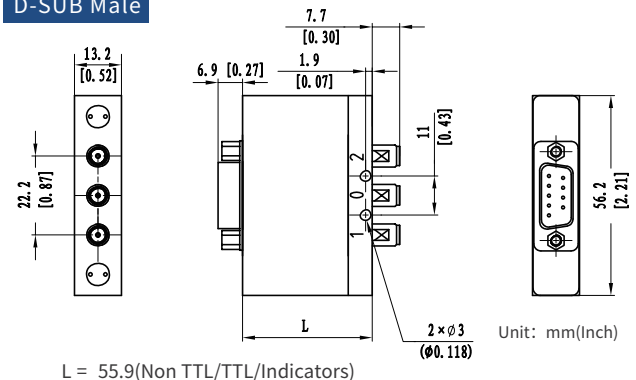
* Connect VDC & GND before the function operates

◆ Outline Drawing

Solder Pins



D-SUB Male



◆ Product Functions

- DC to 67GHz
- Low loss, Low VSWR, High Isolation
- 1.85 Connector
- Selectable TTL driver control

◆ Specifications

Switching Sequence: Break before Make

Switching Time: 15ms max

Storage temperature: -55°C~85°C

Operating temperature: -25°C~65°C(Standard)
-45°C~85°C(Extended1)
-55°C~85°C(Extended2)

Mechanical Life Cycles: 2 million cycles

RF Connectors: 1.85 Female

Impedance: 50Ω

Mechanical Shock,Non-Operating: 50G、1/2 Sine、11 ms

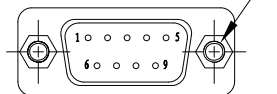
Vibration Operating: 20-2000 Hz、10G RMS

Actuator Terminals: Solder Pins/D-SUB 9Pin Male

Weight: 75g

2 × UNC#4-40▽4

[Depth 0.157]



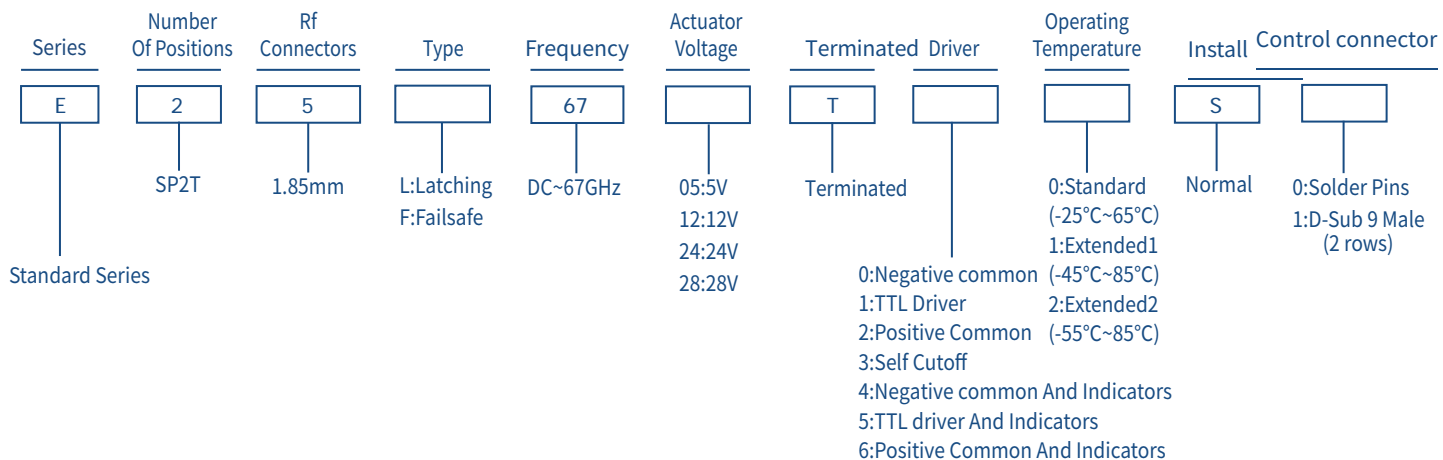
DB9 male

◆ Truth Table

Failsafe Non TTL				Failsafe TTL			
Actuator Terminals		RF Connector		Actuator Terminals		RF Connector	
Solder Pins/D-SUB 9Pin Male				Solder Pins/D-SUB 9Pin Male			
Pin No.	Define	No Power,RF 1-0		Pin No.	Define	No Power,RF 1-0	
1	V	RF 2-0		1	VDC	RF 2-0	
2	N/A	-		2	TTL	-	
3	GND	-		3	GND	-	
4	Ind.1	Indicators	RF 1-0	4	Ind.1	Indicators	RF 1-0
5	Ind.2		RF 2-0	5	Ind.2		RF 2-0
6	Ind.com		-	6	Ind.com		-
7	VDC		-	7~9	N/A		-
8~9	N/A	-					

Latching Non TTL				Latching TTL			
Actuator Terminals		RF Connector		Actuator Terminals		RF Connector	
Solder Pins/D-SUB 9Pin Male				Solder Pins/D-SUB 9Pin Male			
Pin No.	Define	-		Pin No.	Define	-	
1	V1	RF 1-0		1	VDC	-	
2	V2	RF 2-0		2	TTL	RF 1-0	
3	GND	-		3	GND	-	
4	Ind.1	Indicators	RF 1-0	4	TTL	RF 2-0	
5	Ind.2		RF 2-0	5	Ind.1	Indicators	RF 1-0
6	Ind.com		-	6	Ind.2		RF 2-0
7	VDC		-	7	Ind.com		-
8~9	N/A	-		8~9	N/A		-

◆ Product Selection



★ EXP: E25L6705T00S0: Standard Series、SP2T、1.85mm、Latching、DC~67GHz、5V、Terminated、Negative common、Standard、Normal、Solder Pins.

◆ COAXIAL SWITCH

SP3T-6T 18GHz Terminated Normally open/Latching

◆ RF Characteristics

Frequency (GHz)	Ins.loss (dB)	Isolation (dB)	VSWR	RF Power CW (W)
DC-6	0.3	70	1.3	80
6-12	0.4	60	1.4	60
12-18	0.5	50	1.5	50

◆ Operating Voltage/Coil Current

Operating Voltage(V)		12	24	28
Coil Current (mA)	Normally open	300	200	180
	Latching	320	200	180
	Latching(RESET)	1920	1200	1080

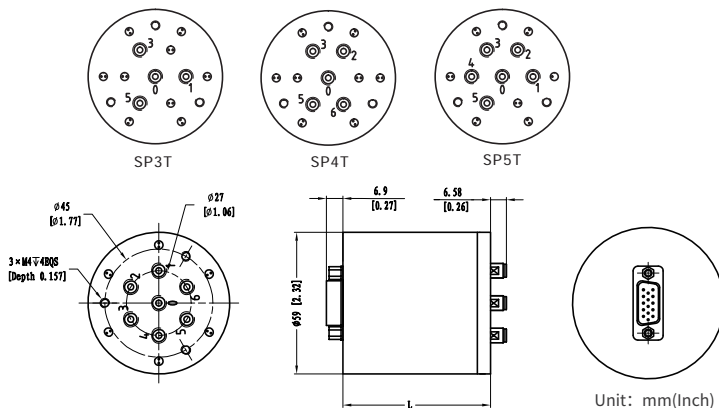
* It can be selected according to user requirements

TTL	TTL Low(V)	TTL High	
	0-0.3	3~5V	1.4mA

Indicators	Withstand Voltage V (max)	Current capacity mA (max)	Resistance Ω (max)
	50	100	15

* Connect VDC & GND before the function operates

◆ Outline Drawing



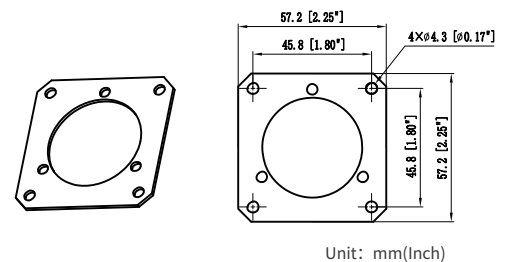
L = 61.5(Non TTL/TTL/Indicators)

◆ Product Functions

- DC to 18GHz
- Low loss, Low VSWR, High Isolation
- SMA Connector
- Selectable TTL driver control



◆ Backplane



Unit: mm(Inch)

◆ Specifications

Switching Sequence: Break before Make

Switching Time: 15ms max

Storage temperature: -55°C~85°C

Operating temperature: -25°C~65°C(Standard)
-45°C~85°C(Extended1)
-55°C~85°C(Extended2)

Mechanical Life Cycles: 2 million cycles

RF Connectors: SMA Female

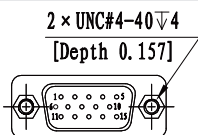
Impedance: 50Ω

Mechanical Shock,Non-Operating: 50G、1/2 Sine、11 ms

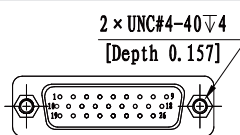
Vibration Operating: 20-2000 Hz、10G RMS

Actuator Terminals: D-SUB 15/26Pin Male

Weight: 260g



DB15 male



DB26 male

* For Latching mode, there is no indication function, and the control interface is DB15 Male.

◆ Truth Table

Latching Non TTL						
Actuator Terminals		RF Connector				
D-SUB 15/26Pin Male						
Pin No.	Define	SP3T	SP4T	SP5T	SP6T	
1	V1	RF 1-0	-	RF 1-0	RF 1-0	
2	V2	-	RF 2-0	RF 2-0	RF 2-0	
3	V3	RF 3-0	RF 3-0	RF 3-0	RF 3-0	
4	V4	-	-	RF 4-0	RF 4-0	
5	V5	RF 5-0	RF 5-0	RF 5-0	RF 5-0	
6	V6	-	RF 6-0	-	RF 6-0	
7	V (RESET)	-	-	-	-	
8	GND	-	-	-	-	
9	Ind.1	RF 1-0	-	RF 1-0	RF 1-0	Indicators
10	Ind.2	-	RF 2-0	RF 2-0	RF 2-0	
11	Ind.3	RF 3-0	RF 3-0	RF 3-0	RF 3-0	
12	Ind.4	-	-	RF 4-0	RF 4-0	
13	Ind.5	RF 5-0	RF 5-0	RF 5-0	RF 5-0	
14	Ind.6	-	RF 6-0	-	RF 6-0	
15	Ind.com	-	-	-	-	
16	VDC	-	-	-	-	
17~26		N/A				

Note: The switch should be powered on pin7 before RESET!

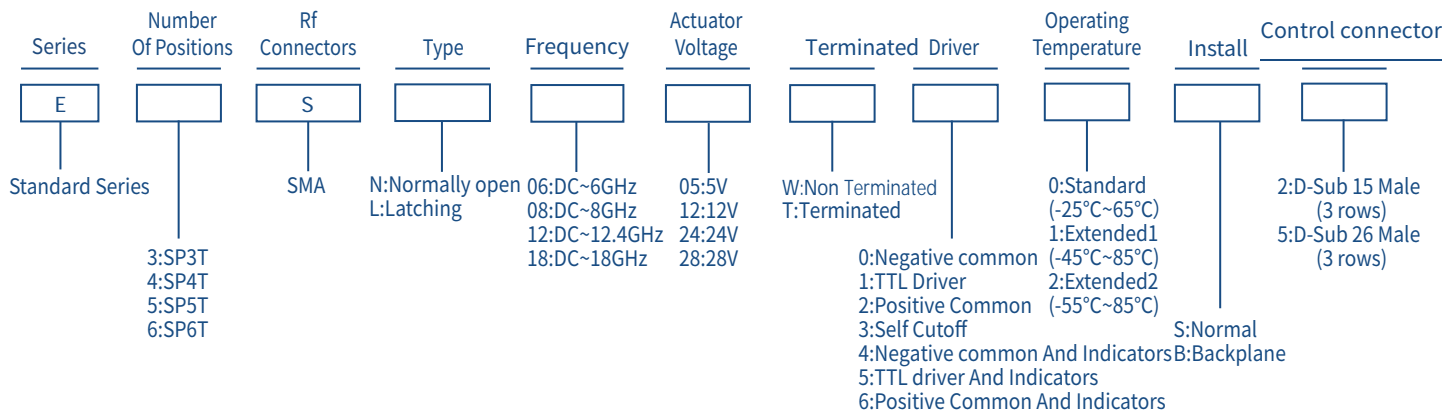
Latching TTL						
Actuator Terminals		RF Connector				
D-SUB 15/26Pin Male						
Pin No.	Define	SP3T	SP4T	SP5T	SP6T	
1	TTL	RF 1-0	-	RF 1-0	RF 1-0	
2	TTL	-	RF 2-0	RF 2-0	RF 2-0	
3	TTL	RF 3-0	RF 3-0	RF 3-0	RF 3-0	
4	TTL	-	-	RF 4-0	RF 4-0	
5	TTL	RF 5-0	RF 5-0	RF 5-0	RF 5-0	
6	TTL	-	RF 6-0	-	RF 6-0	
7	TTL (RESET)	-	-	-	-	
8	VDC	-	-	-	-	
9	GND	-	-	-	-	
10	Ind.1	RF 1-0	-	RF 1-0	RF 1-0	Indicators
11	Ind.2	-	RF 2-0	RF 2-0	RF 2-0	
12	Ind.3	RF 3-0	RF 3-0	RF 3-0	RF 3-0	
13	Ind.4	-	-	RF 4-0	RF 4-0	
14	Ind.5	RF 5-0	RF 5-0	RF 5-0	RF 5-0	
15	Ind.6	-	RF 6-0	-	RF 6-0	
16	Ind.com	-	-	-	-	
17~26		N/A				

Note: The switch should be powered on pin7 before RESET!

Normally open Non TTL						
Actuator Terminals		RF Connector				
D-SUB 15Pin Male						
Pin No.	Define	SP3T	SP4T	SP5T	SP6T	
1	V1	RF 1-0	-	RF 1-0	RF 1-0	
2	V2	-	RF 2-0	RF 2-0	RF 2-0	
3	V3	RF 3-0	RF 3-0	RF 3-0	RF 3-0	
4	V4	-	-	RF 4-0	RF 4-0	
5	V5	RF 5-0	RF 5-0	RF 5-0	RF 5-0	
6	V6	-	RF 6-0	-	RF 6-0	
7	GND	-	-	-	-	
8	Ind.1	RF 1-0	-	RF 1-0	RF 1-0	Indicators
9	Ind.2	-	RF 2-0	RF 2-0	RF 2-0	
10	Ind.3	RF 3-0	RF 3-0	RF 3-0	RF 3-0	
11	Ind.4	-	-	RF 4-0	RF 4-0	
12	Ind.5	RF 5-0	RF 5-0	RF 5-0	RF 5-0	
13	Ind.6	-	RF 6-0	-	RF 6-0	
14	Ind.com	-	-	-	-	
15	VDC	-	-	-	-	

Normally open TTL						
Actuator Terminals		RF Connector				
D-SUB 15Pin Male						
Pin No.	Define	SP3T	SP4T	SP5T	SP6T	
1	TTL	RF 1-0	-	RF 1-0	RF 1-0	
2	TTL	-	RF 2-0	RF 2-0	RF 2-0	
3	TTL	RF 3-0	RF 3-0	RF 3-0	RF 3-0	
4	TTL	-	-	RF 4-0	RF 4-0	
5	TTL	RF 5-0	RF 5-0	RF 5-0	RF 5-0	
6	TTL	-	RF 6-0	-	RF 6-0	
7	VDC	-	-	-	-	
8	GND	-	-	-	-	
9	Ind.1	RF 1-0	-	RF 1-0	RF 1-0	Indicators
10	Ind.2	-	RF 2-0	RF 2-0	RF 2-0	
11	Ind.3	RF 3-0	RF 3-0	RF 3-0	RF 3-0	
12	Ind.4	-	-	RF 4-0	RF 4-0	
13	Ind.5	RF 5-0	RF 5-0	RF 5-0	RF 5-0	
14	Ind.6	-	RF 6-0	-	RF 6-0	
15	Ind.com	-	-	-	-	

◆ Product Selection



★ EXP: E3SN0605W00S2: Standard Series、SP3T、SMA、Normally open、DC~6GHz、5V、Non Terminated、Negative common、Standard、Normal、D-Sub 15 Male.

◆ COAXIAL SWITCH

SP3T-6T 26.5GHz Terminated Normally open/Latching

◆ RF Characteristics

Frequency (GHz)	Ins.loss (dB)	Isolation (dB)	VSWR	RF Power CW (W)
DC-6	0.3	70	1.3	80
6-12	0.4	60	1.4	60
12-18	0.5	50	1.5	50
18-26.5	0.6	50	1.6	15

◆ Operating Voltage/Coil Current

Operating Voltage(V)	12	24	28	
Coil Current (mA)	Normally open	300	200	180
	Latching	320	200	180
	Latching(RESET)	1920	1200	1080

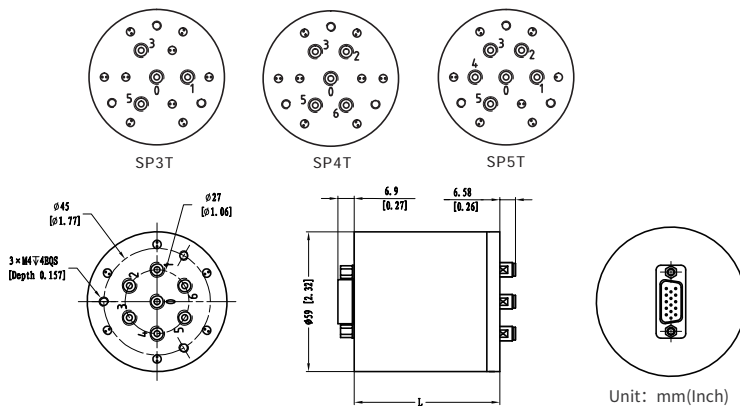
* It can be selected according to user requirements

TTL	TTL Low(V)	TTL High	
	0-0.3	3~5V	1.4mA

Indicators	Withstand Voltage V (max)	Current capacity mA (max)	Resistance Ω (max)
	50	100	15

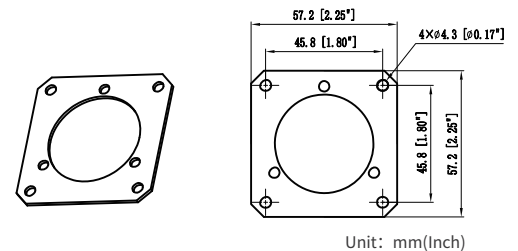
* Connect VDC & GND before the function operates

◆ Outline Drawing



L = 61.5(Non TTL/TTL/Indicators)

◆ Backplane



◆ Product Functions

- DC to 26.5GHz
- Low loss, Low VSWR, High Isolation
- SMA Connector
- Selectable TTL driver control

◆ Specifications

Switching Sequence: Break before Make

Switching Time: 15ms max

Storage temperature: -55°C~85°C

Operating temperature: -25°C~65°C(Standard)
-45°C~85°C(Extended1)
-55°C~85°C(Extended2)

Mechanical Life Cycles: 2 million cycles

RF Connectors: SMA Female

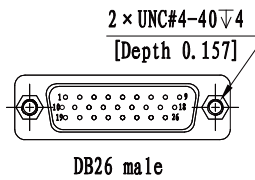
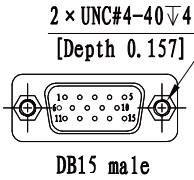
Impedance: 50 Ω

Mechanical Shock, Non-Operating: 50G、1/2 Sine、11 ms

Vibration Operating: 20-2000 Hz、10G RMS

Actuator Terminals: D-SUB 15/26Pin Male

Weight: 260g



◆ Truth Table

* For Latching mode, there is no indication function, and the control interface is DB15 Male.

Latching Non TTL					
Actuator Terminals		RF Connector			
D-SUB 15/26Pin Male					
Pin No.	Define	SP3T	SP4T	SP5T	SP6T
1	V1	RF 1-0	-	RF 1-0	RF 1-0
2	V2	-	RF 2-0	RF 2-0	RF 2-0
3	V3	RF 3-0	RF 3-0	RF 3-0	RF 3-0
4	V4	-	-	RF 4-0	RF 4-0
5	V5	RF 5-0	RF 5-0	RF 5-0	RF 5-0
6	V6	-	RF 6-0	-	RF 6-0
7	V (RESET)	-	-	-	-
8	GND	-	-	-	-
9	Ind.1	RF 1-0	-	RF 1-0	RF 1-0
10	Ind.2	-	RF 2-0	RF 2-0	RF 2-0
11	Ind.3	RF 3-0	RF 3-0	RF 3-0	RF 3-0
12	Ind.4	-	-	RF 4-0	RF 4-0
13	Ind.5	RF 5-0	RF 5-0	RF 5-0	RF 5-0
14	Ind.6	-	RF 6-0	-	RF 6-0
15	Ind.com	-	-	-	-
16	VDC	-	-	-	-
17~26		N/A			

Note: The switch should be powered on pin7 before RESET!

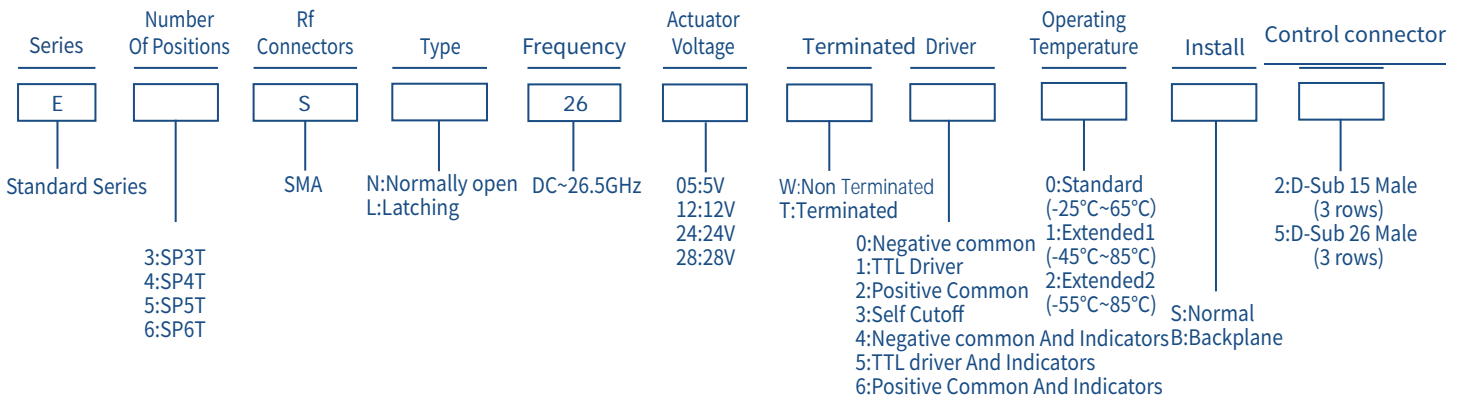
Latching TTL					
Actuator Terminals		RF Connector			
D-SUB 15/26Pin Male					
Pin No.	Define	SP3T	SP4T	SP5T	SP6T
1	TTL	RF 1-0	-	RF 1-0	RF 1-0
2	TTL	-	RF 2-0	RF 2-0	RF 2-0
3	TTL	RF 3-0	RF 3-0	RF 3-0	RF 3-0
4	TTL	-	-	RF 4-0	RF 4-0
5	TTL	RF 5-0	RF 5-0	RF 5-0	RF 5-0
6	TTL	-	RF 6-0	-	RF 6-0
7	TTL (RESET)	-	-	-	-
8	VDC	-	-	-	-
9	GND	-	-	-	-
10	Ind.1	RF 1-0	-	RF 1-0	RF 1-0
11	Ind.2	-	RF 2-0	RF 2-0	RF 2-0
12	Ind.3	RF 3-0	RF 3-0	RF 3-0	RF 3-0
13	Ind.4	-	-	RF 4-0	RF 4-0
14	Ind.5	RF 5-0	RF 5-0	RF 5-0	RF 5-0
15	Ind.6	-	RF 6-0	-	RF 6-0
16	Ind.com	-	-	-	-
17~26		N/A			

Note: The switch should be powered on pin7 before RESET!

Normally open Non TTL					
Actuator Terminals		RF Connector			
D-SUB 15Pin Male					
Pin No.	Define	SP3T	SP4T	SP5T	SP6T
1	V1	RF 1-0	-	RF 1-0	RF 1-0
2	V2	-	RF 2-0	RF 2-0	RF 2-0
3	V3	RF 3-0	RF 3-0	RF 3-0	RF 3-0
4	V4	-	-	RF 4-0	RF 4-0
5	V5	RF 5-0	RF 5-0	RF 5-0	RF 5-0
6	V6	-	RF 6-0	-	RF 6-0
7	GND	-	-	-	-
8	Ind.1	RF 1-0	-	RF 1-0	RF 1-0
9	Ind.2	-	RF 2-0	RF 2-0	RF 2-0
10	Ind.3	RF 3-0	RF 3-0	RF 3-0	RF 3-0
11	Ind.4	-	-	RF 4-0	RF 4-0
12	Ind.5	RF 5-0	RF 5-0	RF 5-0	RF 5-0
13	Ind.6	-	RF 6-0	-	RF 6-0
14	Ind.com	-	-	-	-
15	VDC	-	-	-	-

Normally open TTL					
Actuator Terminals		RF Connector			
D-SUB 15Pin Male					
Pin No.	Define	SP3T	SP4T	SP5T	SP6T
1	TTL	RF 1-0	-	RF 1-0	RF 1-0
2	TTL	-	RF 2-0	RF 2-0	RF 2-0
3	TTL	RF 3-0	RF 3-0	RF 3-0	RF 3-0
4	TTL	-	-	RF 4-0	RF 4-0
5	TTL	RF 5-0	RF 5-0	RF 5-0	RF 5-0
6	TTL	-	RF 6-0	-	RF 6-0
7	VDC	-	-	-	-
8	GND	-	-	-	-
9	Ind.1	RF 1-0	-	RF 1-0	RF 1-0
10	Ind.2	-	RF 2-0	RF 2-0	RF 2-0
11	Ind.3	RF 3-0	RF 3-0	RF 3-0	RF 3-0
12	Ind.4	-	-	RF 4-0	RF 4-0
13	Ind.5	RF 5-0	RF 5-0	RF 5-0	RF 5-0
14	Ind.6	-	RF 6-0	-	RF 6-0
15	Ind.com	-	-	-	-

◆ Product Selection



★ EXP: E3SN2605W00S2: Standard Series, SP3T, SMA, Normally open, DC-26.5GHz, 5V, Non Terminated, Negative common, Standard, Normal, D-Sub 15 Male.

◆ COAXIAL SWITCH

SP3T-6T 40GHz Terminated Normally open/Latching

◆ RF Characteristics

Frequency (GHz)	Ins.loss (dB)	Isolation (dB)	VSWR	RF Power CW (W)
DC-6	0.3	70	1.3	40
6-12	0.4	70	1.4	30
12-18	0.5	60	1.5	25
18-26.5	0.7	55	1.7	12
26.5-32	0.8	50	1.8	8
32-40	0.9	50	1.9	5

◆ Operating Voltage/Coil Current

Operating Voltage(V)		12	24	28
Coil Current (mA)	Normally open	300	200	180
	Latching	320	200	180
	Latching(RESET)	1920	1200	1080

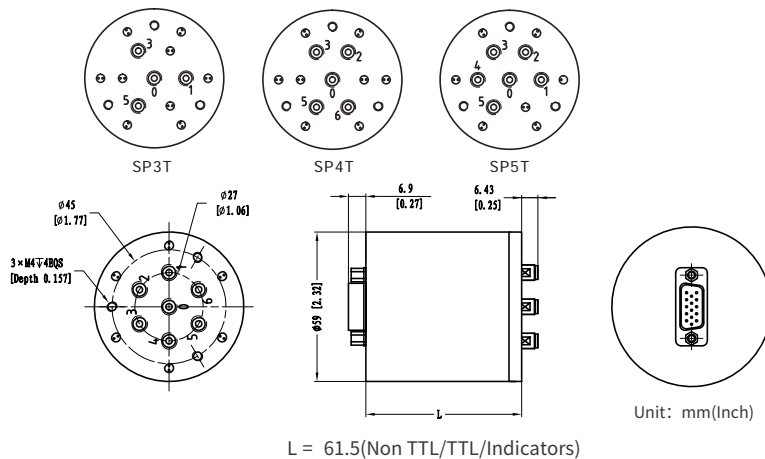
+ It can be selected according to user requirements

TTL	TTL Low(V)	TTL High	
	0-0.3	3~5V	1.4mA

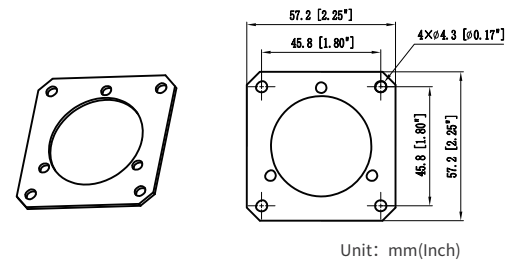
Indicators	Withstand Voltage V (max)	Current capacity mA (max)	Resistance Ω (max)
	50	100	15

+ Connect VDC & GND before the function operates

◆ Outline Drawing



◆ Backplane



◆ Product Functions

- DC to 40GHz
- Low loss, Low VSWR, High Isolation
- 2.92 Connector
- Selectable TTL driver control

◆ Specifications

Switching Sequence: Break before Make

Switching Time: 15ms max

Storage temperature: -55°C~85°C

Operating temperature: -25°C~65°C(Standard)
-45°C~85°C(Extended1)
-55°C~85°C(Extended2)

Mechanical Life Cycles: 2 million cycles

RF Connectors: 2.92 Female

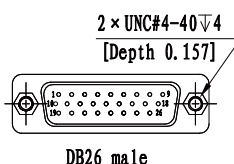
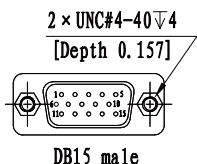
Impedance: 50 Ω

Mechanical Shock,Non-Operating: 50G、1/2 Sine、11 ms

Vibration Operating: 20-2000 Hz、10G RMS

Actuator Terminals: D-SUB 15/26Pin Male

Weight: 260g



◆ Truth Table

* For Latching mode, there is no indication function, and the control interface is DB15 Male.

Latching Non TTL					
Actuator Terminals		RF Connector			
D-SUB 15/26Pin Male					
Pin No.	Define	SP3T	SP4T	SP5T	SP6T
1	V1	RF 1-0	-	RF 1-0	RF 1-0
2	V2	-	RF 2-0	RF 2-0	RF 2-0
3	V3	RF 3-0	RF 3-0	RF 3-0	RF 3-0
4	V4	-	-	RF 4-0	RF 4-0
5	V5	RF 5-0	RF 5-0	RF 5-0	RF 5-0
6	V6	-	RF 6-0	-	RF 6-0
7	V (RESET)	-	-	-	-
8	GND	-	-	-	-
9	Ind.1	RF 1-0	-	RF 1-0	RF 1-0
10	Ind.2	-	RF 2-0	RF 2-0	RF 2-0
11	Ind.3	RF 3-0	RF 3-0	RF 3-0	RF 3-0
12	Ind.4	-	-	RF 4-0	RF 4-0
13	Ind.5	RF 5-0	RF 5-0	RF 5-0	RF 5-0
14	Ind.6	-	RF 6-0	-	RF 6-0
15	Ind.com	-	-	-	-
16	VDC	-	-	-	-
17~26	N/A				

Note: The switch should be powered on pin7 before RESET!

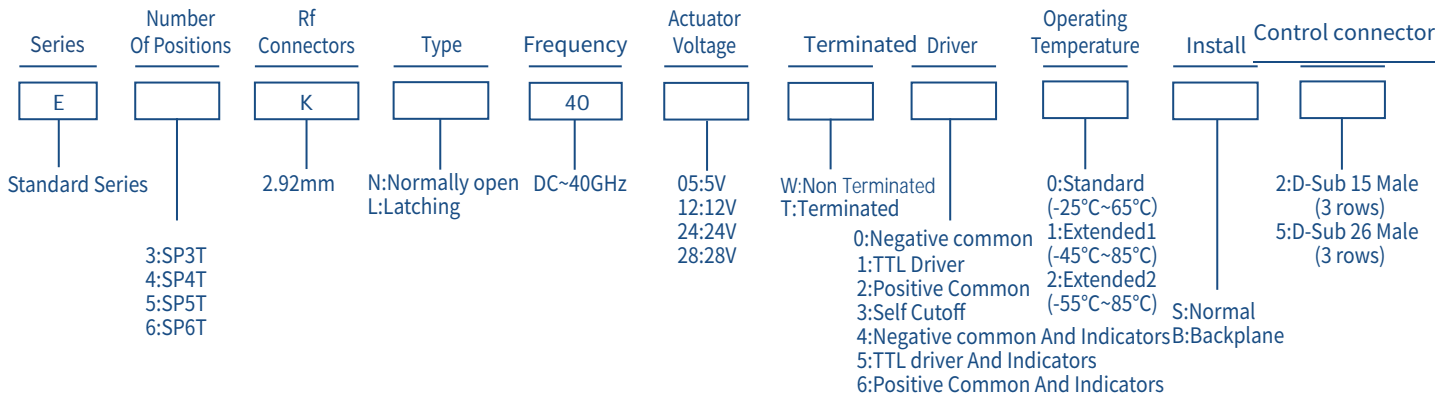
Latching TTL					
Actuator Terminals		RF Connector			
D-SUB 15/26Pin Male					
Pin No.	Define	SP3T	SP4T	SP5T	SP6T
1	TTL	RF 1-0	-	RF 1-0	RF 1-0
2	TTL	-	RF 2-0	RF 2-0	RF 2-0
3	TTL	RF 3-0	RF 3-0	RF 3-0	RF 3-0
4	TTL	-	-	RF 4-0	RF 4-0
5	TTL	RF 5-0	RF 5-0	RF 5-0	RF 5-0
6	TTL	-	RF 6-0	-	RF 6-0
7	TTL (RESET)	-	-	-	-
8	VDC	-	-	-	-
9	GND	-	-	-	-
10	Ind.1	RF 1-0	-	RF 1-0	RF 1-0
11	Ind.2	-	RF 2-0	RF 2-0	RF 2-0
12	Ind.3	RF 3-0	RF 3-0	RF 3-0	RF 3-0
13	Ind.4	-	-	RF 4-0	RF 4-0
14	Ind.5	RF 5-0	RF 5-0	RF 5-0	RF 5-0
15	Ind.6	-	RF 6-0	-	RF 6-0
16	Ind.com	-	-	-	-
17~26	N/A				

Note: The switch should be powered on pin7 before RESET!

Normally open Non TTL					
Actuator Terminals		RF Connector			
D-SUB 15Pin Male					
Pin No.	Define	SP3T	SP4T	SP5T	SP6T
1	V1	RF 1-0	-	RF 1-0	RF 1-0
2	V2	-	RF 2-0	RF 2-0	RF 2-0
3	V3	RF 3-0	RF 3-0	RF 3-0	RF 3-0
4	V4	-	-	RF 4-0	RF 4-0
5	V5	RF 5-0	RF 5-0	RF 5-0	RF 5-0
6	V6	-	RF 6-0	-	RF 6-0
7	GND	-	-	-	-
8	Ind.1	RF 1-0	-	RF 1-0	RF 1-0
9	Ind.2	-	RF 2-0	RF 2-0	RF 2-0
10	Ind.3	RF 3-0	RF 3-0	RF 3-0	RF 3-0
11	Ind.4	-	-	RF 4-0	RF 4-0
12	Ind.5	RF 5-0	RF 5-0	RF 5-0	RF 5-0
13	Ind.6	-	RF 6-0	-	RF 6-0
14	Ind.com	-	-	-	-
15	VDC	-	-	-	-

Normally open TTL					
Actuator Terminals		RF Connector			
D-SUB 15Pin Male					
Pin No.	Define	SP3T	SP4T	SP5T	SP6T
1	TTL	RF 1-0	-	RF 1-0	RF 1-0
2	TTL	-	RF 2-0	RF 2-0	RF 2-0
3	TTL	RF 3-0	RF 3-0	RF 3-0	RF 3-0
4	TTL	-	-	RF 4-0	RF 4-0
5	TTL	RF 5-0	RF 5-0	RF 5-0	RF 5-0
6	TTL	-	RF 6-0	-	RF 6-0
7	VDC	-	-	-	-
8	GND	-	-	-	-
9	Ind.1	RF 1-0	-	RF 1-0	RF 1-0
10	Ind.2	-	RF 2-0	RF 2-0	RF 2-0
11	Ind.3	RF 3-0	RF 3-0	RF 3-0	RF 3-0
12	Ind.4	-	-	RF 4-0	RF 4-0
13	Ind.5	RF 5-0	RF 5-0	RF 5-0	RF 5-0
14	Ind.6	-	RF 6-0	-	RF 6-0
15	Ind.com	-	-	-	-

◆ Product Selection



★ EXP: E3KN4005W00S2: Standard Series, SP3T, 2.92mm, Normally open, DC-40GHz, 5V, Non Terminated, Negative common, Standard D-Sub 15 Male.

◆ COAXIAL SWITCH

SP3T-6T 43.5GHz Terminated Normally open/Latching

◆ RF Characteristics

Frequency (GHz)	Ins.loss (dB)	Isolation (dB)	VSWR	RF Power CW (W)
DC-6	0.3	70	1.3	40
6-12	0.4	70	1.4	30
12-18	0.5	60	1.5	25
18-26.5	0.7	55	1.7	12
26.5-32	0.8	50	1.8	8
32-40	0.9	50	1.9	5
40-43.5	1.0	50	2.0	4

◆ Operating Voltage/Coil Current

Operating Voltage(V)		12	24	28
Coil Current (mA)	Normally open	300	200	180
	Latching	320	200	180
	Latching(RESET)	1920	1200	1080

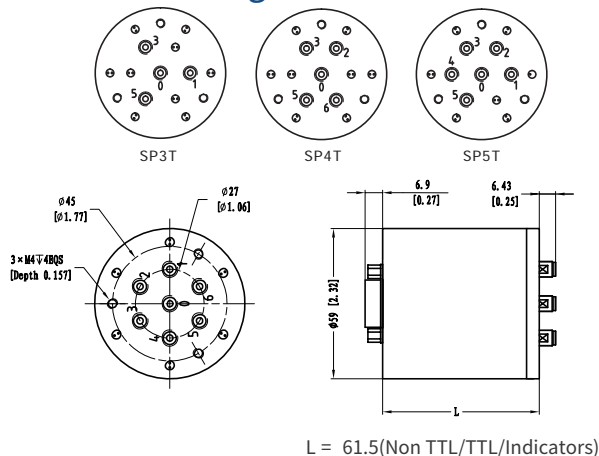
* It can be selected according to user requirements

TTL	TTL Low(V)	TTL High	
	0-0.3	3~5V	1.4mA

Indicators	Withstand Voltage V (max)	Current capacity mA (max)	Resistance Ω (max)
	50	100	15

* Connect VDC & GND before the function operates

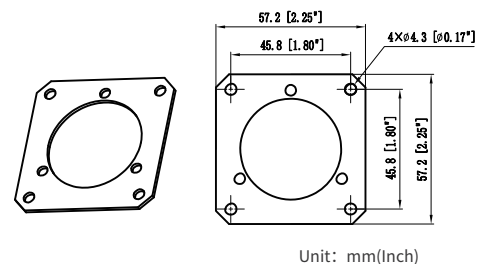
◆ Outline Drawing



◆ Product Functions

- DC to 43.5GHz
- Low loss, Low VSWR, High Isolation
- 2.92 Connector
- Selectable TTL driver control

◆ Backplane



◆ Specifications

Switching Sequence: Break before Make

Switching Time: 15ms max

Storage temperature: -55°C~85°C

Operating temperature: -25°C~65°C(Standard)
-45°C~85°C(Extended1)
-55°C~85°C(Extended2)

Mechanical Life Cycles: 2 million cycles

RF Connectors: 2.92 Female

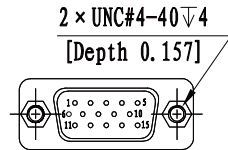
Impedance: 50 Ω

Mechanical Shock,Non-Operating: 50G、1/2 Sine、11 ms

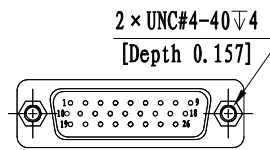
Vibration Operating: 20-2000 Hz、10G RMS

Actuator Terminals: D-SUB 15/26Pin Male

Weight: 260g



DB15 male



DB26 male

◆ Truth Table

* For Latching mode, there is no indication function, and the control interface is DB15 Male.

Latching Non TTL					
Actuator Terminals		RF Connector			
D-SUB 15/26Pin Male					
Pin No.	Define	SP3T	SP4T	SP5T	SP6T
1	V1	RF 1-0	-	RF 1-0	RF 1-0
2	V2	-	RF 2-0	RF 2-0	RF 2-0
3	V3	RF 3-0	RF 3-0	RF 3-0	RF 3-0
4	V4	-	-	RF 4-0	RF 4-0
5	V5	RF 5-0	RF 5-0	RF 5-0	RF 5-0
6	V6	-	RF 6-0	-	RF 6-0
7	V(RESET)	-	-	-	-
8	GND	-	-	-	-
9	Ind.1	RF 1-0	-	RF 1-0	RF 1-0
10	Ind.2	-	RF 2-0	RF 2-0	RF 2-0
11	Ind.3	RF 3-0	RF 3-0	RF 3-0	RF 3-0
12	Ind.4	-	-	RF 4-0	RF 4-0
13	Ind.5	RF 5-0	RF 5-0	RF 5-0	RF 5-0
14	Ind.6	-	RF 6-0	-	RF 6-0
15	Ind.com	-	-	-	-
16	VDC	-	-	-	-
17~26		N/A			

Note: The switch should be powered on pin7 before RESET!

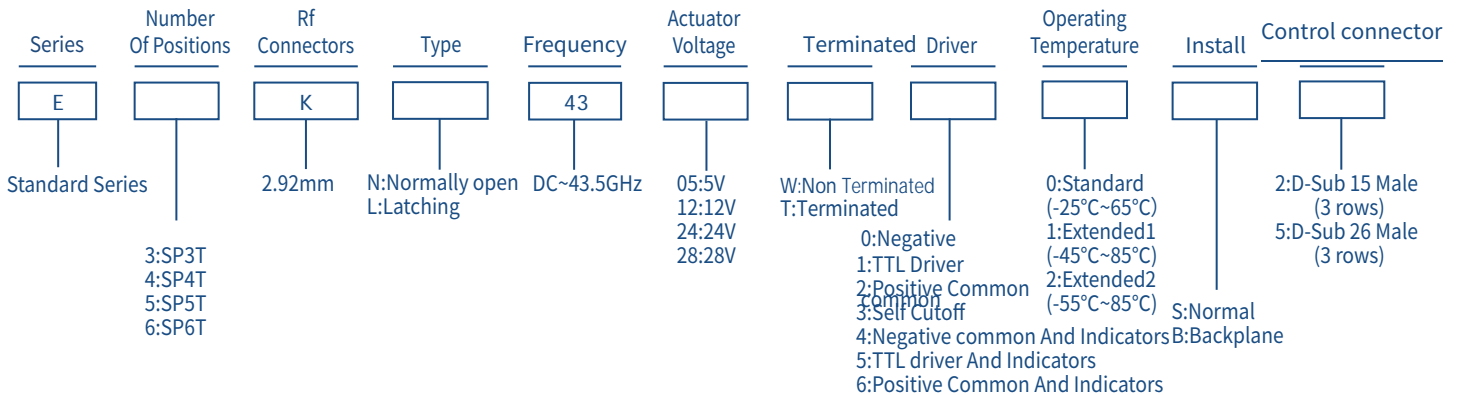
Latching TTL					
Actuator Terminals		RF Connector			
D-SUB 15/26Pin Male					
Pin No.	Define	SP3T	SP4T	SP5T	SP6T
1	TTL	RF 1-0	-	RF 1-0	RF 1-0
2	TTL	-	RF 2-0	RF 2-0	RF 2-0
3	TTL	RF 3-0	RF 3-0	RF 3-0	RF 3-0
4	TTL	-	-	RF 4-0	RF 4-0
5	TTL	RF 5-0	RF 5-0	RF 5-0	RF 5-0
6	TTL	-	RF 6-0	-	RF 6-0
7	TTL(RESET)	-	-	-	-
8	VDC	-	-	-	-
9	GND	-	-	-	-
10	Ind.1	RF 1-0	-	RF 1-0	RF 1-0
11	Ind.2	-	RF 2-0	RF 2-0	RF 2-0
12	Ind.3	RF 3-0	RF 3-0	RF 3-0	RF 3-0
13	Ind.4	-	-	RF 4-0	RF 4-0
14	Ind.5	RF 5-0	RF 5-0	RF 5-0	RF 5-0
15	Ind.6	-	RF 6-0	-	RF 6-0
16	Ind.com	-	-	-	-
17~26		N/A			

Note: The switch should be powered on pin7 before RESET!

Normally open Non TTL					
Actuator Terminals		RF Connector			
D-SUB 15Pin Male					
Pin No.	Define	SP3T	SP4T	SP5T	SP6T
1	V1	RF 1-0	-	RF 1-0	RF 1-0
2	V2	-	RF 2-0	RF 2-0	RF 2-0
3	V3	RF 3-0	RF 3-0	RF 3-0	RF 3-0
4	V4	-	-	RF 4-0	RF 4-0
5	V5	RF 5-0	RF 5-0	RF 5-0	RF 5-0
6	V6	-	RF 6-0	-	RF 6-0
7	GND	-	-	-	-
8	Ind.1	RF 1-0	-	RF 1-0	RF 1-0
9	Ind.2	-	RF 2-0	RF 2-0	RF 2-0
10	Ind.3	RF 3-0	RF 3-0	RF 3-0	RF 3-0
11	Ind.4	-	-	RF 4-0	RF 4-0
12	Ind.5	RF 5-0	RF 5-0	RF 5-0	RF 5-0
13	Ind.6	-	RF 6-0	-	RF 6-0
14	Ind.com	-	-	-	-
15	VDC	-	-	-	-

Normally open TTL					
Actuator Terminals		RF Connector			
D-SUB 15Pin Male					
Pin No.	Define	SP3T	SP4T	SP5T	SP6T
1	TTL	RF 1-0	-	RF 1-0	RF 1-0
2	TTL	-	RF 2-0	RF 2-0	RF 2-0
3	TTL	RF 3-0	RF 3-0	RF 3-0	RF 3-0
4	TTL	-	-	RF 4-0	RF 4-0
5	TTL	RF 5-0	RF 5-0	RF 5-0	RF 5-0
6	TTL	-	RF 6-0	-	RF 6-0
7	VDC	-	-	-	-
8	GND	-	-	-	-
9	Ind.1	RF 1-0	-	RF 1-0	RF 1-0
10	Ind.2	-	RF 2-0	RF 2-0	RF 2-0
11	Ind.3	RF 3-0	RF 3-0	RF 3-0	RF 3-0
12	Ind.4	-	-	RF 4-0	RF 4-0
13	Ind.5	RF 5-0	RF 5-0	RF 5-0	RF 5-0
14	Ind.6	-	RF 6-0	-	RF 6-0
15	Ind.com	-	-	-	-

◆ Product Selection



★ EXP: E3KN4305W00S2: Standard Series, SP3T, 2.92mm, Normally open, DC~43.5GHz, 5V, Non Terminated, Negative common, Standard, Normal, D-Sub 15 Male.

◆ COAXIAL SWITCH

SP3T-6T 50GHz Terminated Normally open/Latching

◆ RF Characteristics

Frequency (GHz)	Ins.loss (dB)	Isolation (dB)	VSWR	RF Power CW (W)
DC-6	0.3	70	1.3	40
6-12	0.4	70	1.4	30
12-18	0.5	60	1.5	25
18-26.5	0.7	55	1.7	12
26.5-32	0.8	50	1.8	8
32-40	0.9	50	1.9	5
40-43	1.0	50	2.0	4
43-50	1.1	50	2.1	3

◆ Operating Voltage/Coil Current

Operating Voltage(V)		12	24	28
Coil Current (mA)	Normally open	300	200	180
	Latching	320	200	180
	Latching(RESET)	1920	1200	1080

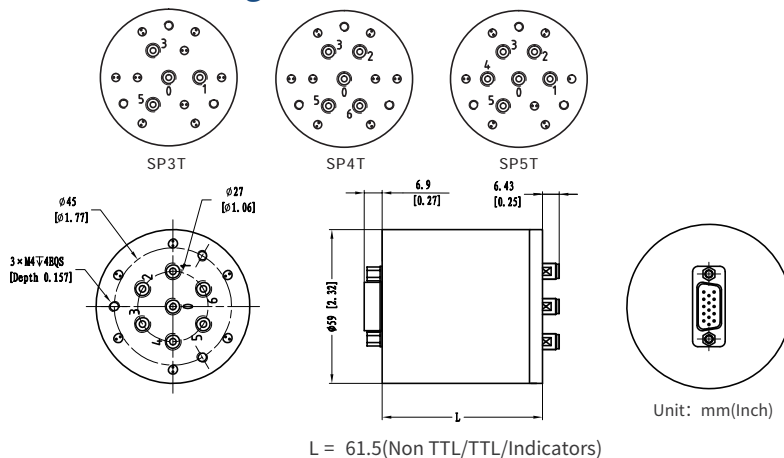
* It can be selected according to user requirements

TTL	TTL Low(V)	TTL High	
	0-0.3	3~5V	1.4mA

Indicators	Withstand Voltage V (max)	Current capacity mA(max)	Resistance Ω (max)
	50	100	15

* Connect VDC & GND before the function operates

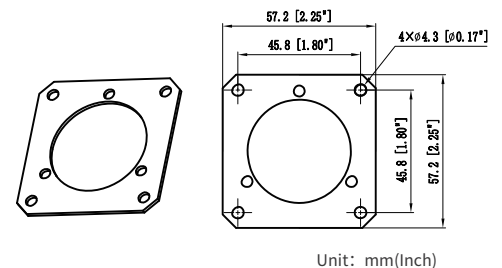
◆ Outline Drawing



◆ Product Functions

- DC to 50GHz
- Low loss, Low VSWR, High Isolation
- 1.85 Connector
- Selectable TTL driver control

◆ Backplane



◆ Specifications

Switching Sequence: Break before Make

Switching Time: 15ms max

Storage temperature: -55°C~85°C

Operating temperature: -25°C~65°C(Standard)

-45°C~85°C(Extended1)

-55°C~85°C(Extended2)

Mechanical Life Cycles: 2 million cycles

RF Connectors: 1.85 Female

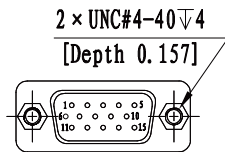
Impedance: 50Ω

Mechanical Shock,Non-Operating: 50G、1/2 Sine、11 ms

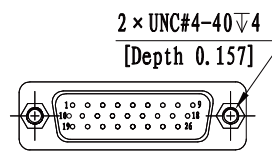
Vibration Operating: 20-2000 Hz、10G RMS

Actuator Terminals: D-SUB 15/26Pin Male

Weight: 260g



DB15 male



DB26 male

◆ Truth Table

* For Latching mode, there is no indication function, and the control interface is DB15 Male.

Latching Non TTL					
Actuator Terminals		RF Connector			
D-SUB 15/26Pin Male					
Pin No.	Define	SP3T	SP4T	SP5T	SP6T
1	V1	RF 1-0	-	RF 1-0	RF 1-0
2	V2	-	RF 2-0	RF 2-0	RF 2-0
3	V3	RF 3-0	RF 3-0	RF 3-0	RF 3-0
4	V4	-	-	RF 4-0	RF 4-0
5	V5	RF 5-0	RF 5-0	RF 5-0	RF 5-0
6	V6	-	RF 6-0	-	RF 6-0
7	V(RESET)	-	-	-	-
8	GND	-	-	-	-
9	Ind.1	RF 1-0	-	RF 1-0	RF 1-0
10	Ind.2	-	RF 2-0	RF 2-0	RF 2-0
11	Ind.3	RF 3-0	RF 3-0	RF 3-0	RF 3-0
12	Ind.4	-	-	RF 4-0	RF 4-0
13	Ind.5	RF 5-0	RF 5-0	RF 5-0	RF 5-0
14	Ind.6	-	RF 6-0	-	RF 6-0
15	Ind.com	-	-	-	-
16	VDC	-	-	-	-
17~26		N/A			

Note: The switch should be powered on pin7 before RESET!

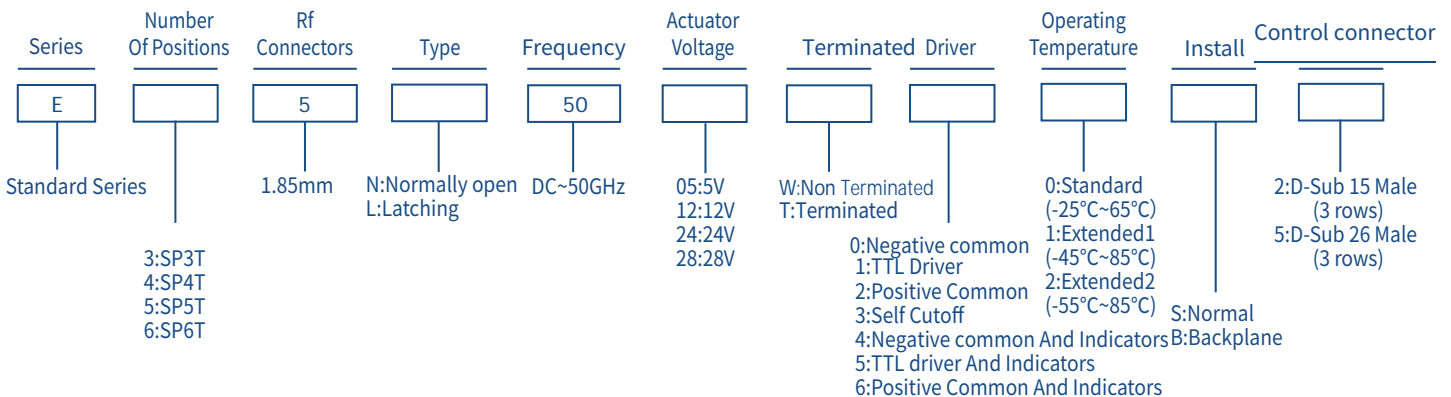
Latching TTL					
Actuator Terminals		RF Connector			
D-SUB 15/26Pin Male					
Pin No.	Define	SP3T	SP4T	SP5T	SP6T
1	TTL	RF 1-0	-	RF 1-0	RF 1-0
2	TTL	-	RF 2-0	RF 2-0	RF 2-0
3	TTL	RF 3-0	RF 3-0	RF 3-0	RF 3-0
4	TTL	-	-	RF 4-0	RF 4-0
5	TTL	RF 5-0	RF 5-0	RF 5-0	RF 5-0
6	TTL	-	RF 6-0	-	RF 6-0
7	TTL (RESET)	-	-	-	-
8	VDC	-	-	-	-
9	GND	-	-	-	-
10	Ind.1	RF 1-0	-	RF 1-0	RF 1-0
11	Ind.2	-	RF 2-0	RF 2-0	RF 2-0
12	Ind.3	RF 3-0	RF 3-0	RF 3-0	RF 3-0
13	Ind.4	-	-	RF 4-0	RF 4-0
14	Ind.5	RF 5-0	RF 5-0	RF 5-0	RF 5-0
15	Ind.6	-	RF 6-0	-	RF 6-0
16	Ind.com	-	-	-	-
17~26		N/A			

Note: The switch should be powered on pin7 before RESET!

Normally open Non TTL					
Actuator Terminals		RF Connector			
D-SUB 15Pin Male					
Pin No.	Define	SP3T	SP4T	SP5T	SP6T
1	V1	RF 1-0	-	RF 1-0	RF 1-0
2	V2	-	RF 2-0	RF 2-0	RF 2-0
3	V3	RF 3-0	RF 3-0	RF 3-0	RF 3-0
4	V4	-	-	RF 4-0	RF 4-0
5	V5	RF 5-0	RF 5-0	RF 5-0	RF 5-0
6	V6	-	RF 6-0	-	RF 6-0
7	GND	-	-	-	-
8	Ind.1	RF 1-0	-	RF 1-0	RF 1-0
9	Ind.2	-	RF 2-0	RF 2-0	RF 2-0
10	Ind.3	RF 3-0	RF 3-0	RF 3-0	RF 3-0
11	Ind.4	-	-	RF 4-0	RF 4-0
12	Ind.5	RF 5-0	RF 5-0	RF 5-0	RF 5-0
13	Ind.6	-	RF 6-0	-	RF 6-0
14	Ind.com	-	-	-	-
15	VDC	-	-	-	-

Normally open TTL					
Actuator Terminals		RF Connector			
D-SUB 15Pin Male					
Pin No.	Define	SP3T	SP4T	SP5T	SP6T
1	TTL	RF 1-0	-	RF 1-0	RF 1-0
2	TTL	-	RF 2-0	RF 2-0	RF 2-0
3	TTL	RF 3-0	RF 3-0	RF 3-0	RF 3-0
4	TTL	-	-	RF 4-0	RF 4-0
5	TTL	RF 5-0	RF 5-0	RF 5-0	RF 5-0
6	TTL	-	RF 6-0	-	RF 6-0
7	VDC	-	-	-	-
8	GND	-	-	-	-
9	Ind.1	RF 1-0	-	RF 1-0	RF 1-0
10	Ind.2	-	RF 2-0	RF 2-0	RF 2-0
11	Ind.3	RF 3-0	RF 3-0	RF 3-0	RF 3-0
12	Ind.4	-	-	RF 4-0	RF 4-0
13	Ind.5	RF 5-0	RF 5-0	RF 5-0	RF 5-0
14	Ind.6	-	RF 6-0	-	RF 6-0
15	Ind.com	-	-	-	-

◆ Product Selection



★ EXP: E35N5005W00S2: Standard Series, SP3T, 1.85mm, Normally open, DC~50GHz, 5V, Non Terminated, Negative common, Standard, Normal, D-Sub 15 Male.

◆ COAXIAL SWITCH

SP3T-6T 53GHz Terminated Normally open/Latching

◆ RF Characteristics

Frequency (GHz)	Ins.loss (dB)	Isolation (dB)	VSWR	RF Power CW (W)
DC-6	0.3	70	1.3	40
6-12	0.4	70	1.4	30
12-18	0.5	60	1.5	25
18-26.5	0.7	55	1.7	12
26.5-32	0.8	50	1.8	8
32-40	0.9	50	1.9	5
40-43	1.0	50	2.0	4
43-50	1.1	50	2.1	3
50-53	1.2	50	2.2	2

◆ Operating Voltage/Coil Current

Operating Voltage(V)		12	24	28
Coil Current (mA)	Normally open	300	200	180
	Latching	320	200	180
	Latching(RESET)	320	200	180

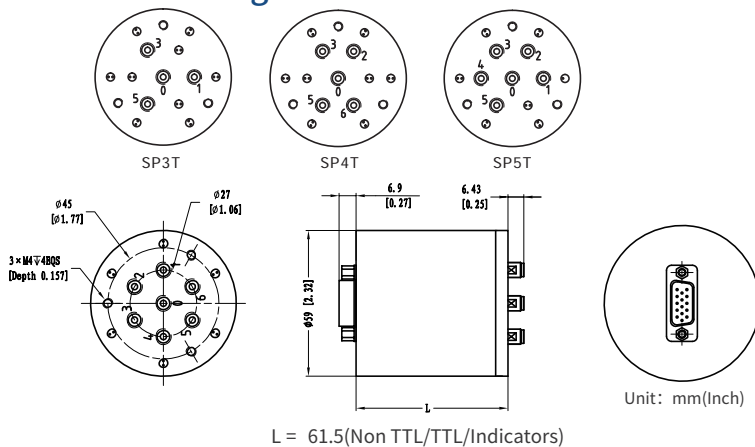
* It can be selected according to user requirements

TTL	TTL Low(V)	TTL High	
	0-0.3	3~5V	1.4mA

Indicators	Withstand Voltage V (max)	Current capacity mA (max)	Resistance Ω (max)
	50	100	15

* Connect VDC & GND before the function operates

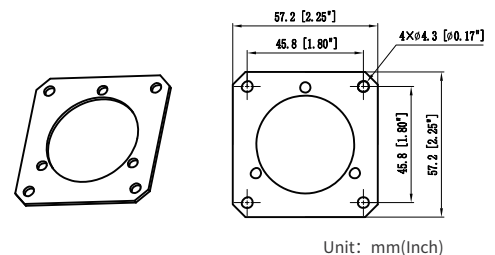
◆ Outline Drawing



◆ Product Functions

- DC to 53GHz
- Low loss, Low VSWR, High Isolation
- 1.85 Connector
- Selectable TTL driver control

◆ Backplane



◆ Specifications

Switching Sequence: Break before Make

Switching Time: 15ms max

Storage temperature: -55°C~85°C

Operating temperature: -25°C~65°C(Standard)
-45°C~85°C(Extended1)
-55°C~85°C(Extended2)

Mechanical Life Cycles: 2 million cycles

RF Connectors: 1.85 Female

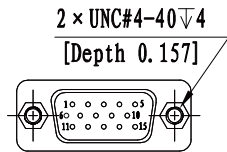
Impedance: 50Ω

Mechanical Shock,Non-Operating: 50G、1/2 Sine、11 ms

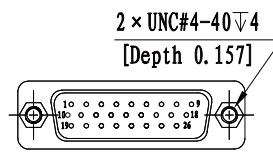
Vibration Operating: 20-2000 Hz、10G RMS

Actuator Terminals: D-SUB 15/26Pin Male

Weight: 260g



DB15 male



DB26 male

◆ Truth Table

* For Latching mode, there is no indication function, and the control interface is DB15 Male.

Latching Non TTL					
Actuator Terminals		RF Connector			
D-SUB 15/26Pin Male					
Pin No.	Define	SP3T	SP4T	SP5T	SP6T
1	V1	RF 1-0	-	RF 1-0	RF 1-0
2	V2	-	RF 2-0	RF 2-0	RF 2-0
3	V3	RF 3-0	RF 3-0	RF 3-0	RF 3-0
4	V4	-	-	RF 4-0	RF 4-0
5	V5	RF 5-0	RF 5-0	RF 5-0	RF 5-0
6	V6	-	RF 6-0	-	RF 6-0
7	V (RESET)	-	-	-	-
8	GND	-	-	-	-
9	Ind.1	RF 1-0	-	RF 1-0	RF 1-0
10	Ind.2	-	RF 2-0	RF 2-0	RF 2-0
11	Ind.3	RF 3-0	RF 3-0	RF 3-0	RF 3-0
12	Ind.4	-	-	RF 4-0	RF 4-0
13	Ind.5	RF 5-0	RF 5-0	RF 5-0	RF 5-0
14	Ind.6	-	RF 6-0	-	RF 6-0
15	Ind.com	-	-	-	-
16	VDC	-	-	-	-
17~25	N/A				

Note: The switch should be powered on pin7 before RESET!

Latching TTL					
Actuator Terminals		RF Connector			
D-SUB 15/26Pin Male					
Pin No.	Define	SP3T	SP4T	SP5T	SP6T
1	TTL	RF 1-0	-	RF 1-0	RF 1-0
2	TTL	-	RF 2-0	RF 2-0	RF 2-0
3	TTL	RF 3-0	RF 3-0	RF 3-0	RF 3-0
4	TTL	-	-	RF 4-0	RF 4-0
5	TTL	RF 5-0	RF 5-0	RF 5-0	RF 5-0
6	TTL	-	RF 6-0	-	RF 6-0
7	TTL (RESET)	-	-	-	-
8	VDC	-	-	-	-
9	GND	-	-	-	-
10	Ind.1	RF 1-0	-	RF 1-0	RF 1-0
11	Ind.2	-	RF 2-0	RF 2-0	RF 2-0
12	Ind.3	RF 3-0	RF 3-0	RF 3-0	RF 3-0
13	Ind.4	-	-	RF 4-0	RF 4-0
14	Ind.5	RF 5-0	RF 5-0	RF 5-0	RF 5-0
15	Ind.6	-	RF 6-0	-	RF 6-0
16	Ind.com	-	-	-	-
17~25	N/A				

Note: The switch should be powered on pin7 before RESET!

Normally open Non TTL					
Actuator Terminals		RF Connector			
D-SUB 15Pin Male					
Pin No.	Define	SP3T	SP4T	SP5T	SP6T
1	V1	RF 1-0	-	RF 1-0	RF 1-0
2	V2	-	RF 2-0	RF 2-0	RF 2-0
3	V3	RF 3-0	RF 3-0	RF 3-0	RF 3-0
4	V4	-	-	RF 4-0	RF 4-0
5	V5	RF 5-0	RF 5-0	RF 5-0	RF 5-0
6	V6	-	RF 6-0	-	RF 6-0
7	GND	-	-	-	-
8	Ind.1	RF 1-0	-	RF 1-0	RF 1-0
9	Ind.2	-	RF 2-0	RF 2-0	RF 2-0
10	Ind.3	RF 3-0	RF 3-0	RF 3-0	RF 3-0
11	Ind.4	-	-	RF 4-0	RF 4-0
12	Ind.5	RF 5-0	RF 5-0	RF 5-0	RF 5-0
13	Ind.6	-	RF 6-0	-	RF 6-0
14	Ind.com	-	-	-	-
15	VDC	-	-	-	-

Normally open TTL					
Actuator Terminals		RF Connector			
D-SUB 15Pin Male					
Pin No.	Define	SP3T	SP4T	SP5T	SP6T
1	TTL	RF 1-0	-	RF 1-0	RF 1-0
2	TTL	-	RF 2-0	RF 2-0	RF 2-0
3	TTL	RF 3-0	RF 3-0	RF 3-0	RF 3-0
4	TTL	-	-	RF 4-0	RF 4-0
5	TTL	RF 5-0	RF 5-0	RF 5-0	RF 5-0
6	TTL	-	RF 6-0	-	RF 6-0
7	VDC	-	-	-	-
8	GND	-	-	-	-
9	Ind.1	RF 1-0	-	RF 1-0	RF 1-0
10	Ind.2	-	RF 2-0	RF 2-0	RF 2-0
11	Ind.3	RF 3-0	RF 3-0	RF 3-0	RF 3-0
12	Ind.4	-	-	RF 4-0	RF 4-0
13	Ind.5	RF 5-0	RF 5-0	RF 5-0	RF 5-0
14	Ind.6	-	RF 6-0	-	RF 6-0
15	Ind.com	-	-	-	-

◆ Product Selection

Series	Number Of Positions	Rf Connectors	Type	Frequency	Actuator Voltage	Terminated Driver	Operating Temperature	Install	Control connector
E		5		53					
Standard Series	3:SP3T 4:SP4T 5:SP5T 6:SP6T	1.85mm	N:Normally open L:Latching	DC~53GHz	05:5V 12:12V 24:24V 28:28V	W:Non Terminated T:Terminated	0:Standard (-25°C~65°C) 1:Extended1 (-45°C~85°C) 2:Extended2 (-55°C~85°C)	S:Normal	2:D-Sub 15 Male (3 rows) 5:D-Sub 26 Male (3 rows)

★ EXP: E35N5305W00S2: Standard Series、SP3T、1.85mm、Normally open、DC~53GHz、5V、Non Terminated、Negative common、Standard、Normal、D-Sub 15 Male.

◆ COAXIAL SWITCH

SP7T-8T 18GHz

Terminated

Normally open/Latching

◆ RF Characteristics

Frequency (GHz)	Ins.loss (dB)	Isolation (dB)	VSWR	RF Power CW (W)
DC-6	0.3	70	1.3	80
6-12	0.4	60	1.4	60
12-18	0.5	50	1.5	50

◆ Operating Voltage/Coil Current

Operating Voltage(V)		12	24	28
Coil Current (mA)	Normally open	300	200	180
	Latching	320	200	180
	Latching(RESET)	2560	1600	1440

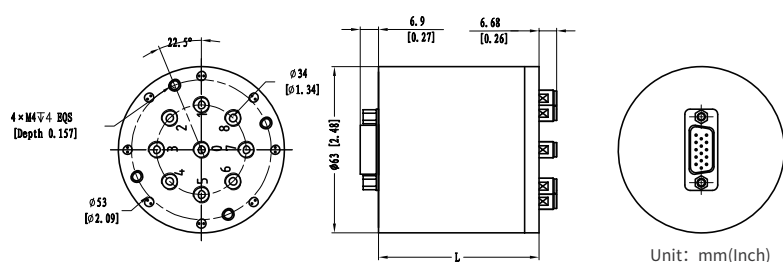
* It can be selected according to user requirements

TTL	TTL Low(V)	TTL High	
	0-0.3	3~5V	1.4mA

Indicators	Withstand Voltage V (max)	Current capacity mA (max)	Resistance Ω (max)
	50	100	15

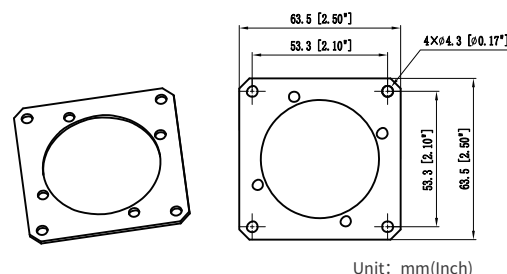
* Connect VDC & GND before the function operates

◆ Outline Drawing



L = 61.5(Non TTL/TTL/Indicators)

◆ Backplane



◆ Product Functions

- DC to 18GHz
- Low loss, Low VSWR, High Isolation
- SMA Connector
- Selectable TTL driver control

◆ Specifications

Switching Sequence: Break before Make

Switching Time: 15ms max

Storage temperature: -55°C~85°C

Operating temperature: -25°C~65°C(Standard)
-45°C~85°C(Extended1)
-55°C~85°C(Extended2)

Mechanical Life Cycles: 2 million cycles

RF Connectors: SMA Female

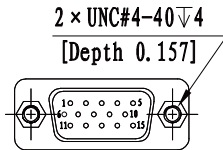
Impedance: 50 Ω

Mechanical Shock,Non-Operating: 50G、1/2 Sine、11 ms

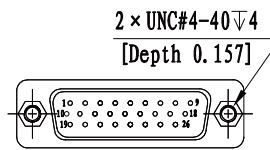
Vibration Operating: 20-2000 Hz、10G RMS

Actuator Terminals: D-SUB 15/26Pin Male

Weight: 320G



DB15 male



DB26 male

◆ Truth Table

* No indication function, control interface DB15 Male.

Normally open Non TTL			
Actuator Terminals		RF Connector	
D-SUB 15/26Pin Male			
Pin No.	Define	SP7T	SP8T
1	V1	RF 1-0	RF 1-0
2	V2	RF 2-0	RF 2-0
3	V3	RF 3-0	RF 3-0
4	V4	RF 4-0	RF 4-0
5	V5	RF 5-0	RF 5-0
6	V6	RF 6-0	RF 6-0
7	V7	RF 7-0	RF 7-0
8	V8	-	RF 8-0
9	GND	-	-
10	Ind.1	RF 1-0	RF 1-0
11	Ind.2	RF 2-0	RF 2-0
12	Ind.3	RF 3-0	RF 3-0
13	Ind.4	RF 4-0	RF 4-0
14	Ind.5	RF 5-0	RF 5-0
15	Ind.6	RF 6-0	RF 6-0
16	Ind.7	RF 7-0	RF 7-0
17	Ind.8	-	RF 8-0
18	Ind.com	-	-
19	VDC	-	-
20~26	N/A	-	-

Normally open TTL			
Actuator Terminals		RF Connector	
D-SUB 15/26Pin Male			
Pin No.	Define	SP7T	SP8T
1	TTL	RF 1-0	RF 1-0
2	TTL	RF 2-0	RF 2-0
3	TTL	RF 3-0	RF 3-0
4	TTL	RF 4-0	RF 4-0
5	TTL	RF 5-0	RF 5-0
6	TTL	RF 6-0	RF 6-0
7	TTL	RF 7-0	RF 7-0
8	TTL	-	RF 8-0
9	VDC	-	-
10	GND	-	-
11	Ind.1	RF 1-0	RF 1-0
12	Ind.2	RF 2-0	RF 2-0
13	Ind.3	RF 3-0	RF 3-0
14	Ind.4	RF 4-0	RF 4-0
15	Ind.5	RF 5-0	RF 5-0
16	Ind.6	RF 6-0	RF 6-0
17	Ind.7	RF 7-0	RF 7-0
18	Ind.8	-	RF 8-0
19	Ind.com	-	-
20~26	N/A	-	-

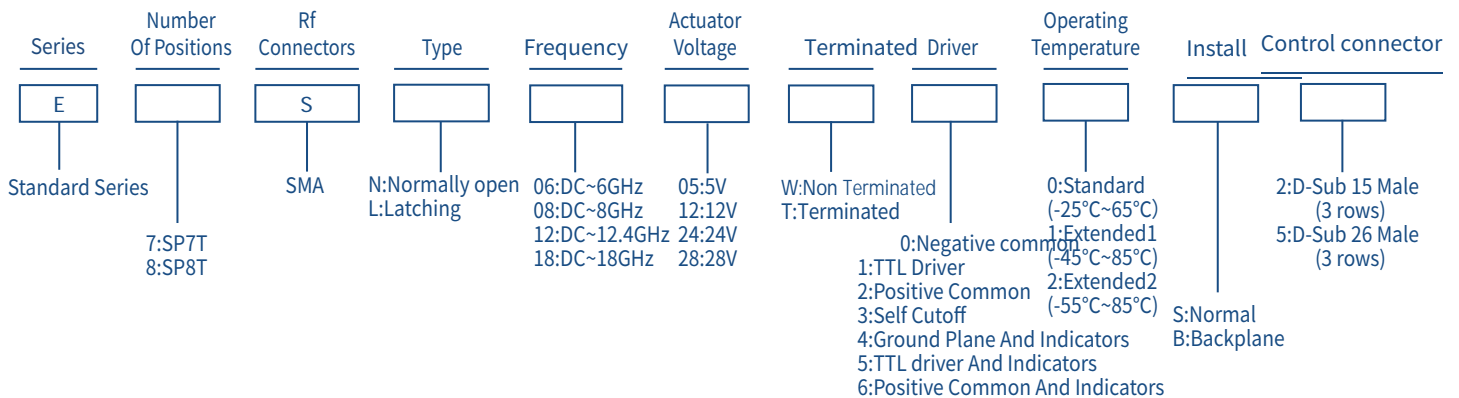
Latching Non TTL			
Actuator Terminals		RF Connector	
D-SUB 15/26Pin Male			
Pin No.	Define	SP7T	SP8T
1	V1	RF 1-0	RF 1-0
2	V2	RF 2-0	RF 2-0
3	V3	RF 3-0	RF 3-0
4	V4	RF 4-0	RF 4-0
5	V5	RF 5-0	RF 5-0
6	V6	RF 6-0	RF 6-0
7	V7	RF 7-0	RF 7-0
8	V8	-	RF 8-0
9	V (RESET)	-	-
10	GND	-	-
11	Ind.1	RF 1-0	RF 1-0
12	Ind.2	RF 2-0	RF 2-0
13	Ind.3	RF 3-0	RF 3-0
14	Ind.4	RF 4-0	RF 4-0
15	Ind.5	RF 5-0	RF 5-0
16	Ind.6	RF 6-0	RF 6-0
17	Ind.7	RF 7-0	RF 7-0
18	Ind.8	-	RF 8-0
19	Ind.com	-	-
20	VDC	-	-
21~26	N/A	-	-

Latching TTL			
Actuator Terminals		RF Connector	
D-SUB 15/26Pin Male			
Pin No.	Define	SP7T	SP8T
1	TTL	RF 1-0	RF 1-0
2	TTL	RF 2-0	RF 2-0
3	TTL	RF 3-0	RF 3-0
4	TTL	RF 4-0	RF 4-0
5	TTL	RF 5-0	RF 5-0
6	TTL	RF 6-0	RF 6-0
7	TTL	RF 7-0	RF 7-0
8	TTL	-	RF 8-0
9	TTL (RESET)	-	-
10	VDC	-	-
11	GND	-	-
12	Ind.1	RF 1-0	RF 1-0
13	Ind.2	RF 2-0	RF 2-0
14	Ind.3	RF 3-0	RF 3-0
15	Ind.4	RF 4-0	RF 4-0
16	Ind.5	RF 5-0	RF 5-0
17	Ind.6	RF 6-0	RF 6-0
18	Ind.7	RF 7-0	RF 7-0
19	Ind.8	-	RF 8-0
20	Ind.com	-	-
21~26	N/A	-	-

Note: The switch should be powered on pin9 before RESET!

Note: The switch should be powered on pin9 before RESET!

◆ Product Selection



★ EXP: E7SN0605W00S2: Standard Series, SP7T, SMA, Normally open, DC~6GHz, 5V, Non Terminated, Ground Plane, Standard, No Driver, D-Sub 15 Male.

◆ COAXIAL SWITCH

SP7T-8T 26.5GHz Terminated Normally open/Latching

◆ RF Characteristics

Frequency (GHz)	Ins.loss (dB)	Isolation (dB)	VSWR	RF Power CW (W)
DC-6	0.3	70	1.3	80
6-12	0.4	60	1.4	60
12-18	0.5	50	1.5	50
18-26.5	0.6	50	1.6	15

◆ Operating Voltage/Coil Current

Operating Voltage(V)	12	24	28	
Coil Current (mA)	Normally open	300	200	180
	Latching	320	200	180
	Latching(RESET)	2560	1600	1440

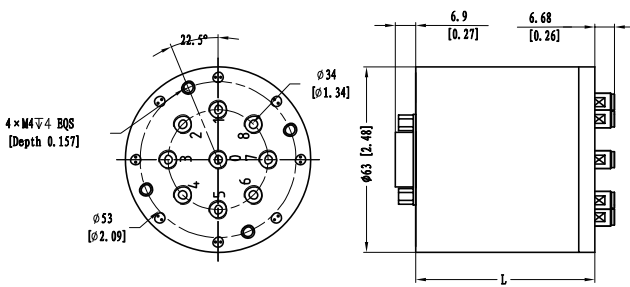
* It can be selected according to user requirements

TTL	TTL Low(V)	TTL High	
	0-0.3	3~5V	1.4mA

Indicators	Withstand Voltage V (max)	Current capacity mA(max)	Resistance Ω (max)
	50	100	15

* Connect VDC & GND before the function operates

◆ Outline Drawing



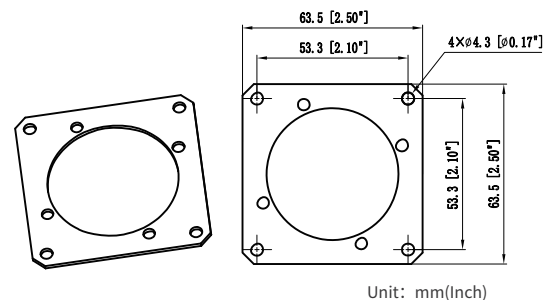
L = 61.5(Non TTL/TTL/Indicators)

◆ Product Functions

- DC to 26.5GHz
- Low loss, Low VSWR, High Isolation
- SMA Connector
- Selectable TTL driver control



◆ Backplane



◆ Specifications

Switching Sequence: Break before Make

Switching Time: 15ms max

Storage temperature: -55°C~85°C

Operating temperature: -25°C~65°C(Standard)
-45°C~85°C(Extended1)
-55°C~85°C(Extended2)

Mechanical Life Cycles: 2 million cycles

RF Connectors: SMA Female

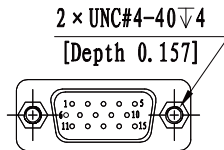
Impedance: 50Ω

Mechanical Shock,Non-Operating: 50G、1/2 Sine、11 ms

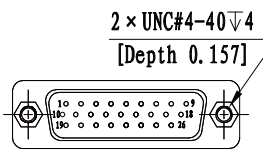
Vibration Operating: 20-2000 Hz、10G RMS

Actuator Terminals: D-SUB 15/26Pin Male

Weight: 320G



DB15 male



DB26 male

◆ Truth Table

* No indication function, control interface DB15 Male.

Normally open Non TTL			
Actuator Terminals D-SUB 15/26Pin Male		RF Connector	
Pin No.	Define	SP7T	SP8T
1	V1	RF 1-0	RF 1-0
2	V2	RF 2-0	RF 2-0
3	V3	RF 3-0	RF 3-0
4	V4	RF 4-0	RF 4-0
5	V5	RF 5-0	RF 5-0
6	V6	RF 6-0	RF 6-0
7	V7	RF 7-0	RF 7-0
8	V8	-	RF 8-0
9	GND	-	-
10	Ind.1	RF 1-0	RF 1-0
11	Ind.2	RF 2-0	RF 2-0
12	Ind.3	RF 3-0	RF 3-0
13	Ind.4	RF 4-0	RF 4-0
14	Ind.5	RF 5-0	RF 5-0
15	Ind.6	RF 6-0	RF 6-0
16	Ind.7	RF 7-0	RF 7-0
17	Ind.8	-	RF 8-0
18	Ind.com	-	-
19	VDC	-	-
20~26	N/A	-	-

Normally open TTL			
Actuator Terminals D-SUB 15/26Pin Male		RF Connector	
Pin No.	Define	SP7T	SP8T
1	TTL	RF 1-0	RF 1-0
2	TTL	RF 2-0	RF 2-0
3	TTL	RF 3-0	RF 3-0
4	TTL	RF 4-0	RF 4-0
5	TTL	RF 5-0	RF 5-0
6	TTL	RF 6-0	RF 6-0
7	TTL	RF 7-0	RF 7-0
8	TTL	-	RF 8-0
9	VDC	-	-
10	GND	-	-
11	Ind.1	RF 1-0	RF 1-0
12	Ind.2	RF 2-0	RF 2-0
13	Ind.3	RF 3-0	RF 3-0
14	Ind.4	RF 4-0	RF 4-0
15	Ind.5	RF 5-0	RF 5-0
16	Ind.6	RF 6-0	RF 6-0
17	Ind.7	RF 7-0	RF 7-0
18	Ind.8	-	RF 8-0
19	Ind.com	-	-
20~26	N/A	-	-

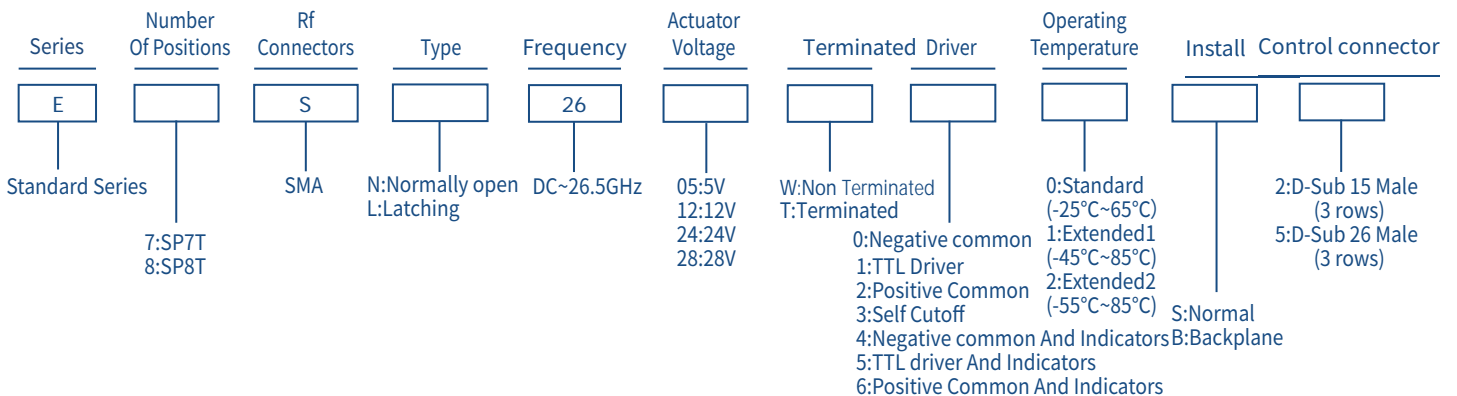
Latching Non TTL			
Actuator Terminals D-SUB 15/26Pin Male		RF Connector	
Pin No.	Define	SP7T	SP8T
1	V1	RF 1-0	RF 1-0
2	V2	RF 2-0	RF 2-0
3	V3	RF 3-0	RF 3-0
4	V4	RF 4-0	RF 4-0
5	V5	RF 5-0	RF 5-0
6	V6	RF 6-0	RF 6-0
7	V7	RF 7-0	RF 7-0
8	V8	-	RF 8-0
9	V (RESET)	-	-
10	GND	-	-
11	Ind.1	RF 1-0	RF 1-0
12	Ind.2	RF 2-0	RF 2-0
13	Ind.3	RF 3-0	RF 3-0
14	Ind.4	RF 4-0	RF 4-0
15	Ind.5	RF 5-0	RF 5-0
16	Ind.6	RF 6-0	RF 6-0
17	Ind.7	RF 7-0	RF 7-0
18	Ind.8	-	RF 8-0
19	Ind.com	-	-
20	VDC	-	-
21-26	N/A	-	-

Note: The switch should be powered on pin9 before RESET!

Latching TTL			
Actuator Terminals D-SUB 15/26Pin Male		RF Connector	
Pin No.	Define	SP7T	SP8T
1	TTL	RF 1-0	RF 1-0
2	TTL	RF 2-0	RF 2-0
3	TTL	RF 3-0	RF 3-0
4	TTL	RF 4-0	RF 4-0
5	TTL	RF 5-0	RF 5-0
6	TTL	RF 6-0	RF 6-0
7	TTL	RF 7-0	RF 7-0
8	TTL	-	RF 8-0
9	TTL (RESET)	-	-
10	VDC	-	-
11	GND	-	-
12	Ind.1	RF 1-0	RF 1-0
13	Ind.2	RF 2-0	RF 2-0
14	Ind.3	RF 3-0	RF 3-0
15	Ind.4	RF 4-0	RF 4-0
16	Ind.5	RF 5-0	RF 5-0
17	Ind.6	RF 6-0	RF 6-0
18	Ind.7	RF 7-0	RF 7-0
19	Ind.8	-	RF 8-0
20	Ind.com	-	-
21-26	N/A	-	-

Note: The switch should be powered on pin9 before RESET!

◆ Product Selection



★ EXP: E7SN2605W00S2: Standard Series, SP7T, SMA, Normally open, DC~26.5GHz, 5V, Non Terminated, Negative common, Standard, Normal, D-Sub 15 Male.

◆ COAXIAL SWITCH

SP7T-8T 40GHz Terminated Normally open/Latching

◆ RF Characteristics

Frequency (GHz)	Ins.loss (dB)	Isolation (dB)	VSWR	RF Power CW (W)
DC-6	0.3	70	1.3	40
6-12	0.4	70	1.4	30
12-18	0.5	60	1.5	25
18-26.5	0.7	55	1.7	12
26.5-32	0.8	50	1.8	8
32-40	0.9	50	1.9	5

◆ Operating Voltage/Coil Current

Operating Voltage(V)		12	24	28
Coil Current (mA)	Normally open	300	200	180
	Latching	320	200	180
	Latching(RESET)	2560	1600	1440

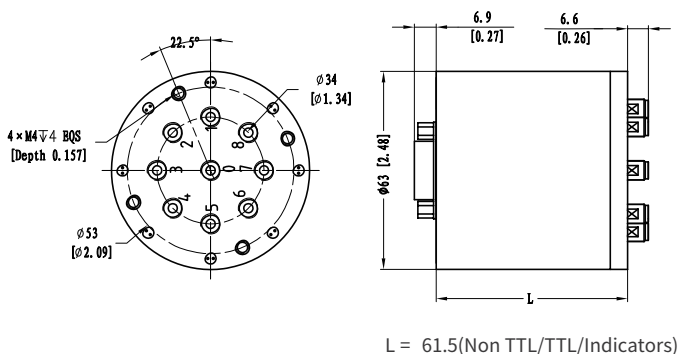
* It can be selected according to user requirements

TTL	TTL Low(V)	TTL High	
	0-0.3	3~5V	1.4mA

Indicators	Withstand Voltage V (max)	Current capacity mA(max)	Resistance Ω (max)
	50	100	15

* Connect VDC & GND before the function operates

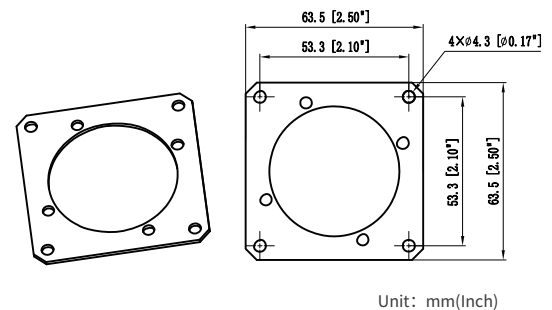
◆ Outline Drawing



◆ Product Functions

- DC to 40GHz
- Low loss, Low VSWR, High Isolation
- 2.92 Connector
- Selectable TTL driver control

◆ Backplane



◆ Specifications

Switching Sequence: Break before Make

Switching Time: 15ms max

Storage temperature: $-55^\circ\text{C} \sim 85^\circ\text{C}$

Operating temperature: $-25^\circ\text{C} \sim 65^\circ\text{C}$ (Standard)
 $-45^\circ\text{C} \sim 85^\circ\text{C}$ (Extended1)
 $-55^\circ\text{C} \sim 85^\circ\text{C}$ (Extended2)

Mechanical Life Cycles: 2 million cycles

RF Connectors: 2.92 Female

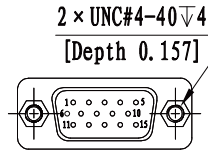
Impedance: 50Ω

Mechanical Shock, Non-Operating: 50G、1/2 Sine、11 ms

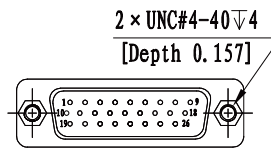
Vibration Operating: 20-2000 Hz、10G RMS

Actuator Terminals: D-SUB 15Pin Male

Weight: 320G



DB15 male



DB26 male

◆ Truth Table

* No indication function, control interface DB15 Male.

Normally open Non TTL			
Actuator Terminals		RF Connector	
D-SUB 15/26Pin Male			
Pin No.	Define	SP7T	SP8T
1	V1	RF 1-0	RF 1-0
2	V2	RF 2-0	RF 2-0
3	V3	RF 3-0	RF 3-0
4	V4	RF 4-0	RF 4-0
5	V5	RF 5-0	RF 5-0
6	V6	RF 6-0	RF 6-0
7	V7	RF 7-0	RF 7-0
8	V8	-	RF 8-0
9	GND	-	-
10	Ind.1	RF 1-0	RF 1-0
11	Ind.2	RF 2-0	RF 2-0
12	Ind.3	RF 3-0	RF 3-0
13	Ind.4	RF 4-0	RF 4-0
14	Ind.5	RF 5-0	RF 5-0
15	Ind.6	RF 6-0	RF 6-0
16	Ind.7	RF 7-0	RF 7-0
17	Ind.8	-	RF 8-0
18	Ind.com	-	-
19	VDC	-	-
20~26	N/A	-	-

Normally open TTL			
Actuator Terminals		RF Connector	
D-SUB 15/26Pin Male			
Pin No.	Define	SP7T	SP8T
1	TTL	RF 1-0	RF 1-0
2	TTL	RF 2-0	RF 2-0
3	TTL	RF 3-0	RF 3-0
4	TTL	RF 4-0	RF 4-0
5	TTL	RF 5-0	RF 5-0
6	TTL	RF 6-0	RF 6-0
7	TTL	RF 7-0	RF 7-0
8	TTL	-	RF 8-0
9	VDC	-	-
10	GND	-	-
11	Ind.1	RF 1-0	RF 1-0
12	Ind.2	RF 2-0	RF 2-0
13	Ind.3	RF 3-0	RF 3-0
14	Ind.4	RF 4-0	RF 4-0
15	Ind.5	RF 5-0	RF 5-0
16	Ind.6	RF 6-0	RF 6-0
17	Ind.7	RF 7-0	RF 7-0
18	Ind.8	-	RF 8-0
19	Ind.com	-	-
20~26	N/A	-	-

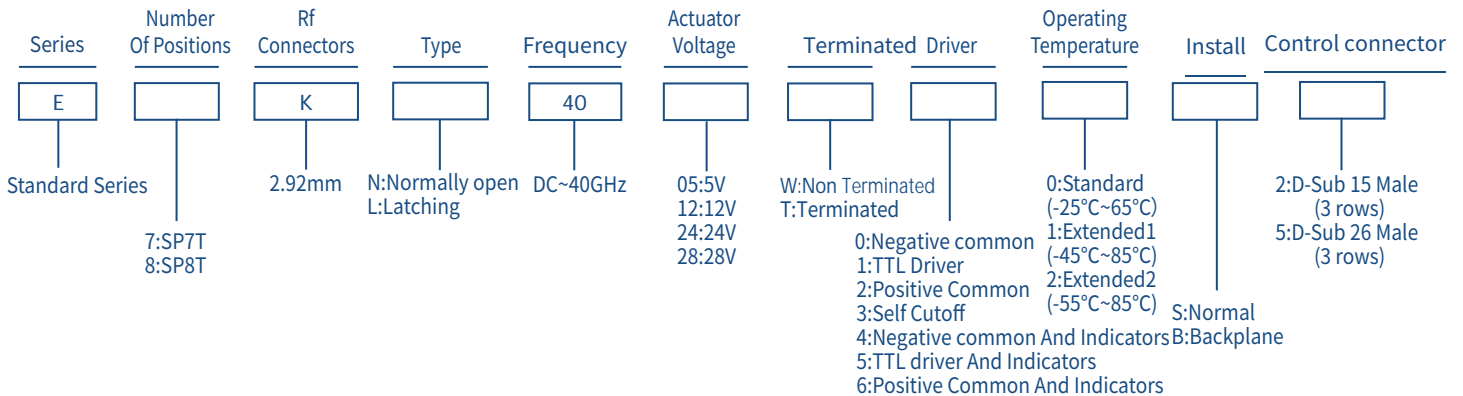
Latching Non TTL			
Actuator Terminals		RF Connector	
D-SUB 15/26Pin Male			
Pin No.	Define	SP7T	SP8T
1	V1	RF 1-0	RF 1-0
2	V2	RF 2-0	RF 2-0
3	V3	RF 3-0	RF 3-0
4	V4	RF 4-0	RF 4-0
5	V5	RF 5-0	RF 5-0
6	V6	RF 6-0	RF 6-0
7	V7	RF 7-0	RF 7-0
8	V8	-	RF 8-0
9	V(RESET)	-	-
10	GND	-	-
11	Ind.1	RF 1-0	RF 1-0
12	Ind.2	RF 2-0	RF 2-0
13	Ind.3	RF 3-0	RF 3-0
14	Ind.4	RF 4-0	RF 4-0
15	Ind.5	RF 5-0	RF 5-0
16	Ind.6	RF 6-0	RF 6-0
17	Ind.7	RF 7-0	RF 7-0
18	Ind.8	-	RF 8-0
19	Ind.com	-	-
20	VDC	-	-
21~26	N/A	-	-

Latching TTL			
Actuator Terminals		RF Connector	
D-SUB 15/26Pin Male			
Pin No.	Define	SP7T	SP8T
1	TTL	RF 1-0	RF 1-0
2	TTL	RF 2-0	RF 2-0
3	TTL	RF 3-0	RF 3-0
4	TTL	RF 4-0	RF 4-0
5	TTL	RF 5-0	RF 5-0
6	TTL	RF 6-0	RF 6-0
7	TTL	RF 7-0	RF 7-0
8	TTL	-	RF 8-0
9	TTL (RESET)	-	-
10	VDC	-	-
11	GND	-	-
12	Ind.1	RF 1-0	RF 1-0
13	Ind.2	RF 2-0	RF 2-0
14	Ind.3	RF 3-0	RF 3-0
15	Ind.4	RF 4-0	RF 4-0
16	Ind.5	RF 5-0	RF 5-0
17	Ind.6	RF 6-0	RF 6-0
18	Ind.7	RF 7-0	RF 7-0
19	Ind.8	-	RF 8-0
20	Ind.com	-	-
21~26	N/A	-	-

Note: The switch should be powered on pin9 before RESET!

Note: The switch should be powered on pin9 before RESET!

◆ Product Selection



★ EXP: E7KN4005W00S2: Standard Series, SP7T, 2.92mm, Normally open, DC-40GHz, 5V, Non Terminated, Negative common, Standard, Normal, D-Sub 15 Male.

◆ COAXIAL SWITCH

SP9T-10T 18GHz

Terminated

Normally open/Latching

◆ RF Characteristics

Frequency (GHz)	Ins.loss (dB)	Isolation (dB)	VSWR	RF Power CW (W)
DC-6	0.3	70	1.3	80
6-12	0.4	60	1.4	60
12-18	0.5	50	1.5	50

◆ Operating Voltage/Coil Current

Operating Voltage(V)		12	24	28
Coil Current (mA)	Normally open	300	200	180
	Latching	320	200	180
	Latching(RESET)	3200	2000	1800

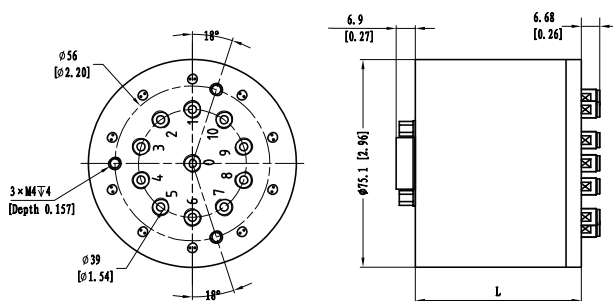
* It can be selected according to user requirements

TTL	TTL Low(V)	TTL High	
	0-0.3	3~5V	1.4mA

Indicators	Withstand Voltage V (max)	Current capacity mA(max)	Resistance Ω (max)
	50	100	15

* Connect VDC & GND before the function operates

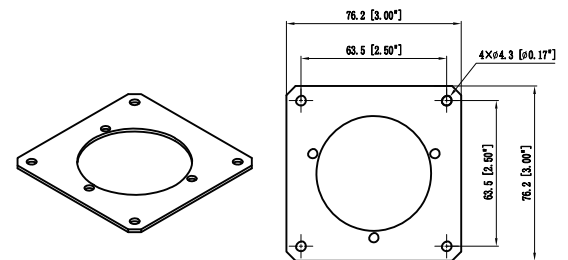
◆ Outline Drawing



L = 61.5(Non TTL/TTL/Indicators)

Unit: mm(Inch)

◆ Backplane



Unit: mm(Inch)



◆ Product Functions

- DC to 18GHz
- Low loss, Low VSWR, High Isolation
- SMA Connector
- Selectable TTL driver control

◆ Specifications

Switching Sequence: Break before Make

Switching Time: 15ms max

Storage temperature: -55°C~85°C

Operating temperature: -25°C~65°C(Standard)
-45°C~85°C(Extended1)
-55°C~85°C(Extended2)

Mechanical Life Cycles: 2 million cycles

RF Connectors: SMA Female

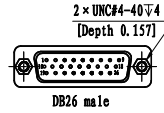
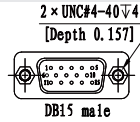
Impedance: 50 Ω

Mechanical Shock, Non-Operating: 50G, 1/2 Sine, 11 ms

Vibration Operating: 20-2000 Hz, 10G RMS

Actuator Terminals: D-SUB 15/26Pin Male

Weight: 405g



◆ Truth Table

* No indication function, control interface DB15 Male.

Normally open Non TTL			
Actuator Terminals		RF Connector	
D-SUB 15/26Pin Male			
Pin No.	Define	SP9T	SP10T
1	V1	RF 1-0	RF 1-0
2	V2	RF 2-0	RF 2-0
3	V3	RF 3-0	RF 3-0
4	V4	RF 4-0	RF 4-0
5	V5	RF 5-0	RF 5-0
6	V6	RF 6-0	RF 6-0
7	V7	RF 7-0	RF 7-0
8	V8	RF 8-0	RF 8-0
9	V9	RF 9-0	RF 9-0
10	V10	-	RF 10-0
11	GND	-	-
12	Ind.1	RF 1-0	RF 1-0
13	Ind.2	RF 2-0	RF 2-0
14	Ind.3	RF 3-0	RF 3-0
15	Ind.4	RF 4-0	RF 4-0
16	Ind.5	RF 5-0	RF 5-0
17	Ind.6	RF 6-0	RF 6-0
18	Ind.7	RF 7-0	RF 7-0
19	Ind.8	RF 8-0	RF 8-0
20	Ind.9	RF 9-0	RF 9-0
21	Ind.10	-	RF 10-0
22	Ind.com	-	-
23	VDC	-	-
24-26	N/A	-	-

Normally open TTL			
Actuator Terminals		RF Connector	
D-SUB 15/26Pin Male			
Pin No.	Define	SP9T	SP10T
1	TTL	RF 1-0	RF 1-0
2	TTL	RF 2-0	RF 2-0
3	TTL	RF 3-0	RF 3-0
4	TTL	RF 4-0	RF 4-0
5	TTL	RF 5-0	RF 5-0
6	TTL	RF 6-0	RF 6-0
7	TTL	RF 7-0	RF 7-0
8	TTL	RF 8-0	RF 8-0
9	TTL	RF 9-0	RF 9-0
10	TTL	-	RF 10-0
11	VDC	-	-
12	GND	-	-
13	Ind.1	RF 1-0	RF 1-0
14	Ind.2	RF 2-0	RF 2-0
15	Ind.3	RF 3-0	RF 3-0
16	Ind.4	RF 4-0	RF 4-0
17	Ind.5	RF 5-0	RF 5-0
18	Ind.6	RF 6-0	RF 6-0
19	Ind.7	RF 7-0	RF 7-0
20	Ind.8	RF 8-0	RF 8-0
21	Ind.9	RF 9-0	RF 9-0
22	Ind.10	-	RF 10-0
23	Ind.com	-	-
24-26	N/A	-	-

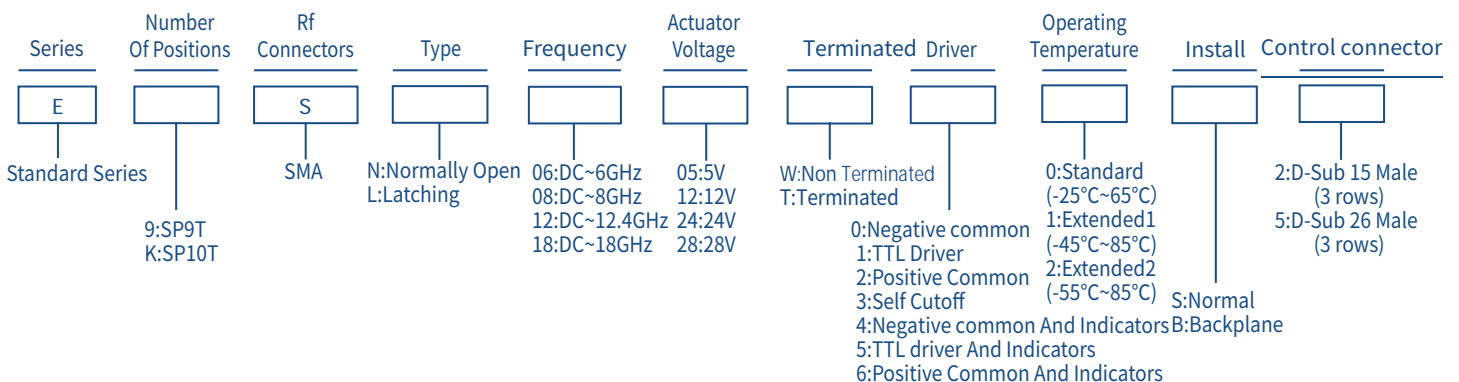
Latching Non TTL			
Actuator Terminals		RF Connector	
D-SUB 15/26Pin Male			
Pin No.	Define	SP9T	SP10T
1	V1	RF 1-0	RF 1-0
2	V2	RF 2-0	RF 2-0
3	V3	RF 3-0	RF 3-0
4	V4	RF 4-0	RF 4-0
5	V5	RF 5-0	RF 5-0
6	V6	RF 6-0	RF 6-0
7	V7	RF 7-0	RF 7-0
8	V8	RF 8-0	RF 8-0
9	V9	RF 9-0	RF 9-0
10	V10	-	RF 10-0
11	V(RESET)	-	-
12	GND	-	-
13	Ind.1	RF 1-0	RF 1-0
14	Ind.2	RF 2-0	RF 2-0
15	Ind.3	RF 3-0	RF 3-0
16	Ind.4	RF 4-0	RF 4-0
17	Ind.5	RF 5-0	RF 5-0
18	Ind.6	RF 6-0	RF 6-0
19	Ind.7	RF 7-0	RF 7-0
20	Ind.8	RF 8-0	RF 8-0
21	Ind.9	RF 9-0	RF 9-0
22	Ind.10	-	RF 10-0
23	Ind.com	-	-
24	VDC	-	-
25-26	N/A	-	-

Latching TTL			
Actuator Terminals		RF Connector	
D-SUB 15/26Pin Male			
Pin No.	Define	SP9T	SP10T
1	TTL	RF 1-0	RF 1-0
2	TTL	RF 2-0	RF 2-0
3	TTL	RF 3-0	RF 3-0
4	TTL	RF 4-0	RF 4-0
5	TTL	RF 5-0	RF 5-0
6	TTL	RF 6-0	RF 6-0
7	TTL	RF 7-0	RF 7-0
8	TTL	RF 8-0	RF 8-0
9	TTL	RF 9-0	RF 9-0
10	TTL	-	RF 10-0
11	TTL (RESET)	-	-
12	VDC	-	-
13	GND	-	-
14	Ind.1	RF 1-0	RF 1-0
15	Ind.2	RF 2-0	RF 2-0
16	Ind.3	RF 3-0	RF 3-0
17	Ind.4	RF 4-0	RF 4-0
18	Ind.5	RF 5-0	RF 5-0
19	Ind.6	RF 6-0	RF 6-0
20	Ind.7	RF 7-0	RF 7-0
21	Ind.8	RF 8-0	RF 8-0
22	Ind.9	RF 9-0	RF 9-0
23	Ind.10	-	RF 10-0
24	Ind.com	-	-
25-26	N/A	-	-

Note: The switch should be powered on pin11 before RESET!

Note: The switch should be powered on pin11 before RESET!

◆ Product Selection



★ EXP: E9SN0605W00S2: Standard Series, SP9T, SMA, Normally Open, DC~6GHz, 5V, Non Terminated, Negative common, Standard, Normal, D-Sub 15 Male.

◆ COAXIAL SWITCH

SP9T-10T 26.5GHz Terminated Normally open/Latching

◆ RF Characteristics

Frequency (GHz)	Ins.loss (dB)	Isolation (dB)	VSWR	RF Power CW (W)
DC-6	0.3	70	1.3	80
6-12	0.4	60	1.4	60
12-18	0.5	50	1.5	50
18-26.5	0.7	50	1.7	15

◆ Operating Voltage/Coil Current

Operating Voltage(V)		12	24	28
Coil Current (mA)	Normally open	300	200	180
	Latching	320	200	180
	Latching(RESET)	3200	2000	1800

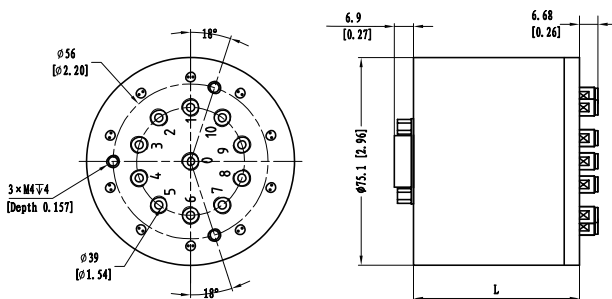
* It can be selected according to user requirements

TTL	TTL Low(V)	TTL High	
	0-0.3	3~5V	1.4mA

Indicators	Withstand Voltage V (max)	Current capacity mA(max)	Resistance Ω (max)
	50	100	15

* Connect VDC & GND before the function operates

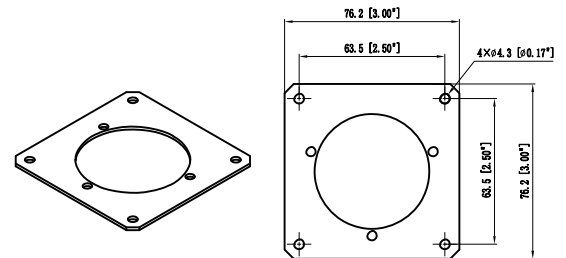
◆ Outline Drawing



L = 61.5(Non TTL/TTL/Indicators)

Unit: mm(Inch)

◆ Backplane



Unit: mm(Inch)



◆ Product Functions

- DC to 26.5GHz
- Low loss, Low VSWR, High Isolation
- SMA Connector
- Selectable TTL driver control

◆ Specifications

Switching Sequence: Break before Make

Switching Time: 15ms max

Storage temperature: -55°C~85°C

Operating temperature: -25°C~65°C(Standard)

-45°C~85°C(Extended1)

-55°C~85°C(Extended2)

Mechanical Life Cycles: 2 million cycles

RF Connectors: SMA Female

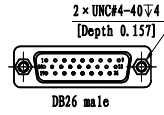
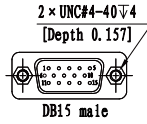
Impedance: 50 Ω

Mechanical Shock, Non-Operating: 50G, 1/2 Sine, 11 ms

Vibration Operating: 20-2000 Hz, 10G RMS

Actuator Terminals: D-SUB 15/26Pin Male

Weight: 405g



◆ Truth Table

* No indication function, control interface DB15 Male.

Normally open Non TTL			
Actuator Terminals		RF Connector	
D-SUB 15/26Pin Male			
Pin No.	Define	SP9T	SP10T
1	V1	RF 1-0	RF 1-0
2	V2	RF 2-0	RF 2-0
3	V3	RF 3-0	RF 3-0
4	V4	RF 4-0	RF 4-0
5	V5	RF 5-0	RF 5-0
6	V6	RF 6-0	RF 6-0
7	V7	RF 7-0	RF 7-0
8	V8	RF 8-0	RF 8-0
9	V9	RF 9-0	RF 9-0
10	V10	-	RF 10-0
11	GND	-	-
12	Ind.1	RF 1-0	RF 1-0
13	Ind.2	RF 2-0	RF 2-0
14	Ind.3	RF 3-0	RF 3-0
15	Ind.4	RF 4-0	RF 4-0
16	Ind.5	RF 5-0	RF 5-0
17	Ind.6	RF 6-0	RF 6-0
18	Ind.7	RF 7-0	RF 7-0
19	Ind.8	RF 8-0	RF 8-0
20	Ind.9	RF 9-0	RF 9-0
21	Ind.10	-	RF 10-0
22	Ind.com	-	-
23	VDC	-	-
24~26	N/A	-	-

Normally open TTL			
Actuator Terminals		RF Connector	
D-SUB 15/26Pin Male			
Pin No.	Define	SP9T	SP10T
1	TTL	RF 1-0	RF 1-0
2	TTL	RF 2-0	RF 2-0
3	TTL	RF 3-0	RF 3-0
4	TTL	RF 4-0	RF 4-0
5	TTL	RF 5-0	RF 5-0
6	TTL	RF 6-0	RF 6-0
7	TTL	RF 7-0	RF 7-0
8	TTL	RF 8-0	RF 8-0
9	TTL	RF 9-0	RF 9-0
10	TTL	-	RF 10-0
11	VDC	-	-
12	GND	-	-
13	Ind.1	RF 1-0	RF 1-0
14	Ind.2	RF 2-0	RF 2-0
15	Ind.3	RF 3-0	RF 3-0
16	Ind.4	RF 4-0	RF 4-0
17	Ind.5	RF 5-0	RF 5-0
18	Ind.6	RF 6-0	RF 6-0
19	Ind.7	RF 7-0	RF 7-0
20	Ind.8	RF 8-0	RF 8-0
21	Ind.9	RF 9-0	RF 9-0
22	Ind.10	-	RF 10-0
23	Ind.com	-	-
24~26	N/A	-	-

Latching Non TTL			
Actuator Terminals		RF Connector	
D-SUB 15/26Pin Male			
Pin No.	Define	SP9T	SP10T
1	V1	RF 1-0	RF 1-0
2	V2	RF 2-0	RF 2-0
3	V3	RF 3-0	RF 3-0
4	V4	RF 4-0	RF 4-0
5	V5	RF 5-0	RF 5-0
6	V6	RF 6-0	RF 6-0
7	V7	RF 7-0	RF 7-0
8	V8	RF 8-0	RF 8-0
9	V9	RF 9-0	RF 9-0
10	V10	-	RF 10-0
11	V(RESET)	-	-
12	GND	-	-
13	Ind.1	RF 1-0	RF 1-0
14	Ind.2	RF 2-0	RF 2-0
15	Ind.3	RF 3-0	RF 3-0
16	Ind.4	RF 4-0	RF 4-0
17	Ind.5	RF 5-0	RF 5-0
18	Ind.6	RF 6-0	RF 6-0
19	Ind.7	RF 7-0	RF 7-0
20	Ind.8	RF 8-0	RF 8-0
21	Ind.9	RF 9-0	RF 9-0
22	Ind.10	-	RF 10-0
23	Ind.com	-	-
24	VDC	-	-
25~26	N/A	-	-

Latching TTL			
Actuator Terminals		RF Connector	
D-SUB 15/26Pin Male			
Pin No.	Define	SP9T	SP10T
1	TTL	RF 1-0	RF 1-0
2	TTL	RF 2-0	RF 2-0
3	TTL	RF 3-0	RF 3-0
4	TTL	RF 4-0	RF 4-0
5	TTL	RF 5-0	RF 5-0
6	TTL	RF 6-0	RF 6-0
7	TTL	RF 7-0	RF 7-0
8	TTL	RF 8-0	RF 8-0
9	TTL	RF 9-0	RF 9-0
10	TTL	-	RF 10-0
11	TTL (RESET)	-	-
12	VDC	-	-
13	GND	-	-
14	Ind.1	RF 1-0	RF 1-0
15	Ind.2	RF 2-0	RF 2-0
16	Ind.3	RF 3-0	RF 3-0
17	Ind.4	RF 4-0	RF 4-0
18	Ind.5	RF 5-0	RF 5-0
19	Ind.6	RF 6-0	RF 6-0
20	Ind.7	RF 7-0	RF 7-0
21	Ind.8	RF 8-0	RF 8-0
22	Ind.9	RF 9-0	RF 9-0
23	Ind.10	-	RF 10-0
24	Ind.com	-	-
25~26	N/A	-	-

Note: The switch should be powered on pin11 before RESET!

Note: The switch should be powered on pin11 before RESET!

◆ Product Selection

Series	Number Of Positions	Rf Connectors	Type	Frequency	Actuator Voltage	Terminated Driver	Operating Temperature	Install	Control connector
E		S		26					
Standard Series	9:SP9T K:SP10T	SMA	N:Normally Open L:Latching	DC~26.5GHz	05:5V 12:12V 24:24V 28:28V	W:Non Terminated T:Terminated	0:Standard (-25°C~65°C) 1:Extended1 (-45°C~85°C) 2:Extended2 (-55°C~85°C)	S:Normal	2:D-Sub 15 Male (3 rows) 5:D-Sub 26 Male (3 rows)

★ EXP: E9SN2605W00S2: Standard Series, SP9T, SMA, Normally Open, DC~26.5GHz, 5V, Non Terminated, Negative common, Standard, Normal, D-Sub 15 Male.

◆ COAXIAL SWITCH

SP11T-12T 18GHz

Terminated

Normally open/Latching

◆ RF Characteristics

Frequency (GHz)	Ins.loss (dB)	Isolation (dB)	VSWR	RF Power CW (W)
DC-6	0.3	70	1.3	80
6-12	0.4	60	1.5	60
12-18	0.6	50	1.6	50

◆ Operating Voltage/Coil Current

Operating Voltage(V)		12	24	28
Coil Current (mA)	Normally open	300	200	180
	Latching	320	200	180
	Latching(RESET)	3840	2400	2160

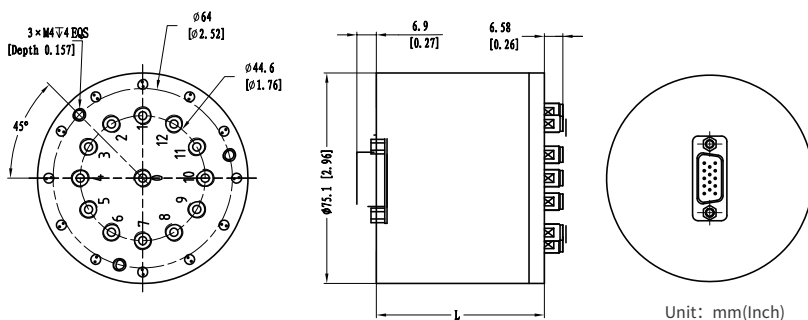
* It can be selected according to user requirements

TTL	TTL Low(V)	TTL High	
	0-0.3	3~5V	1.4mA

Indicators	Withstand Voltage V (max)	Current capacity mA(max)	Resistance Ω (max)
	50	100	15

* Connect VDC & GND before the function operates

◆ Outline Drawing



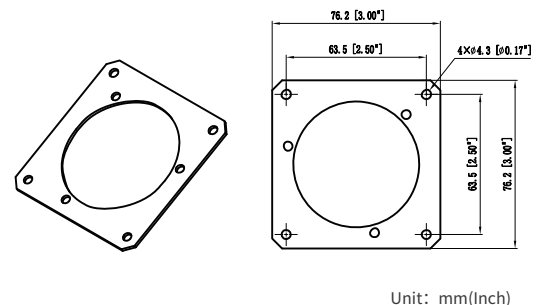
L = 61.5(Non TTL/TTL/Indicators)



◆ Product Functions

- DC to 18GHz
- Low loss, Low VSWR, High Isolation
- SMA Connector
- Selectable TTL driver control

◆ Backplane



◆ Specifications

Switching Sequence: Break before Make

Switching Time: 15ms max

Storage temperature: -55°C~85°C

Operating temperature: -25°C~65°C(Standard)
-45°C~85°C(Extended1)
-55°C~85°C(Extended2)

Mechanical Life Cycles: 2 million cycles

RF Connectors: SMA Female

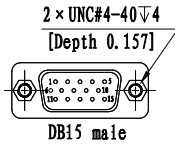
Impedance: 50Ω

Mechanical Shock, Non-Operating: 50G、1/2 Sine、11 ms

Vibration Operating: 20-2000 Hz、10G RMS

Actuator Terminals: D-SUB 15Pin Male

Weight: 485g



◆ Truth Table

Normally open Non TTL			
Actuator Terminals		RF Connector	
D-SUB 15Pin Male			
Pin No.	Define	SP11T	SP12T
1	V1	RF 1-0	RF 1-0
2	V2	RF 2-0	RF 2-0
3	V3	RF 3-0	RF 3-0
4	V4	RF 4-0	RF 4-0
5	V5	RF 5-0	RF 5-0
6	V6	RF 6-0	RF 6-0
7	V7	RF 7-0	RF 7-0
8	V8	RF 8-0	RF 8-0
9	V9	RF 9-0	RF 9-0
10	V10	RF 10-0	RF 10-0
11	V11	RF 11-0	RF 11-0
12	V12	-	RF 12-0
13	GND	-	-
14~15	N/A	-	-

Normally open TTL			
Actuator Terminals		RF Connector	
D-SUB 15Pin Male			
Pin No.	Define	SP11T	SP12T
1	TTL	RF 1-0	RF 1-0
2	TTL	RF 2-0	RF 2-0
3	TTL	RF 3-0	RF 3-0
4	TTL	RF 4-0	RF 4-0
5	TTL	RF 5-0	RF 5-0
6	TTL	RF 6-0	RF 6-0
7	TTL	RF 7-0	RF 7-0
8	TTL	RF 8-0	RF 8-0
9	TTL	RF 9-0	RF 9-0
10	TTL	RF 10-0	RF 10-0
11	TTL	RF 11-0	RF 11-0
12	TTL	-	RF 12-0
13	VDC	-	-
14	GND	-	-
15	N/A	-	-

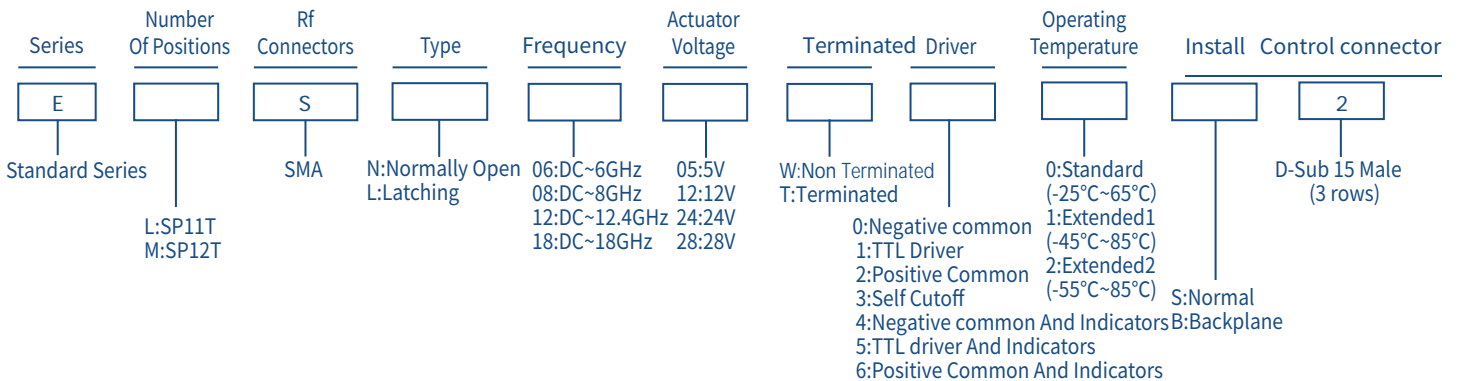
Latching Non TTL			
Actuator Terminals		RF Connector	
D-SUB 15Pin Male			
Pin No.	Define	SP11T	SP12T
1	V1	RF 1-0	RF 1-0
2	V2	RF 2-0	RF 2-0
3	V3	RF 3-0	RF 3-0
4	V4	RF 4-0	RF 4-0
5	V5	RF 5-0	RF 5-0
6	V6	RF 6-0	RF 6-0
7	V7	RF 7-0	RF 7-0
8	V8	RF 8-0	RF 8-0
9	V9	RF 9-0	RF 9-0
10	V10	RF 10-0	RF 10-0
11	V11	RF 11-0	RF 11-0
12	V12	-	RF 12-0
13	V(RESET)	-	-
14	GND	-	-
15	N/A	-	-

Note: The switch should be powered on pin13 before RESET!

Latching TTL			
Actuator Terminals		RF Connector	
D-SUB 15Pin Male			
Pin No.	Define	SP11T	SP12T
1	TTL	RF 1-0	RF 1-0
2	TTL	RF 2-0	RF 2-0
3	TTL	RF 3-0	RF 3-0
4	TTL	RF 4-0	RF 4-0
5	TTL	RF 5-0	RF 5-0
6	TTL	RF 6-0	RF 6-0
7	TTL	RF 7-0	RF 7-0
8	TTL	RF 8-0	RF 8-0
9	TTL	RF 9-0	RF 9-0
10	TTL	RF 10-0	RF 10-0
11	TTL	RF 11-0	RF 11-0
12	TTL	-	RF 12-0
13	TTL (RESET)	-	-
14	VDC	-	-
15	GND	-	-

Note: The switch should be powered on pin13 before RESET!

◆ Product Selection



★ EXP: ELSN0605W00S2: Standard Series, SP11T, SMA, Normally Open, DC~6GHz, 5V, Non Terminated, Negative common, Standard, Normal, D-Sub 15 Male.

◆ COAXIAL SWITCH

SPDT N 12.4GHz High Power Failsafe / Latching

◆ RF Characteristics

Frequency (GHz)	Ins.loss (dB)	Isolation (dB)	VSWR	RF Power CW (W)
DC-5	0.3	70	1.3	350
5-12.4	0.5	60	1.5	250

◆ Operating Voltage/Coil Current

Operating Voltage(V)		12	24	28
Coil Current (mA)	Failsafe	300	180	150
	Latching	320	180	150

* It can be selected according to user requirements

TTL	TTL Low(V)	TTL High	
	0-0.3	3~5V	20mA

Indicators	Withstand Voltage V (max)	Current capacity mA(max)	Resistance Ω (max)
	50	100	15

* Connect VDC & GND before the function operates

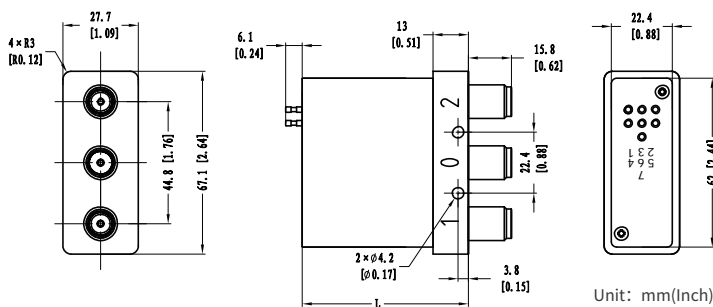


◆ Product Functions

- DC to 12.4GHz
- Low loss, Low VSWR, High Isolation
- N Female Connector
- Selectable TTL driver control

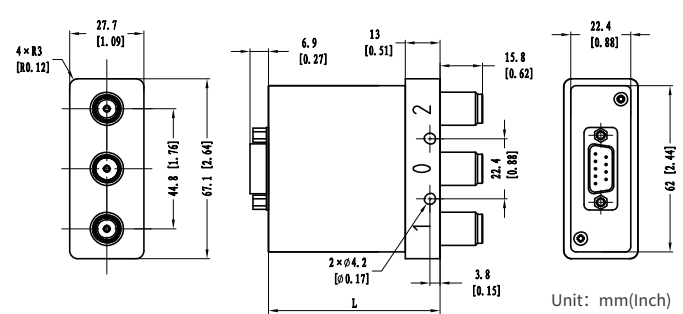
◆ Outline Drawing

Solder Pins



L = 61(Non TTL/TTL/Indicators)

D-SUB Male



L = 64(Non TTL/TTL/Indicators)

◆ Specifications

Switching Sequence: Break before Make

Switching Time: 15ms max

Storage temperature: -55°C~85°C

Operating temperature: -25°C~65°C(Standard)
-45°C~85°C(Extended1)
-55°C~85°C(Extended2)

Mechanical Life Cycles: 2 million cycles

RF Connectors: N Female

Impedance: 50Ω

Mechanical Shock, Non-Operating: 50G, 1/2 Sine, 11 ms

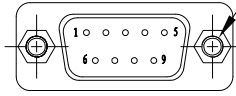
Vibration Operating: 20-2000 Hz, 10G RMS

Actuator Terminals: Solder Pins/D-SUB 9Pin Male

Weight: 250g

2 × UNC#4-40▽4

[Depth 0.157]



◆ Truth Table

DB9 male

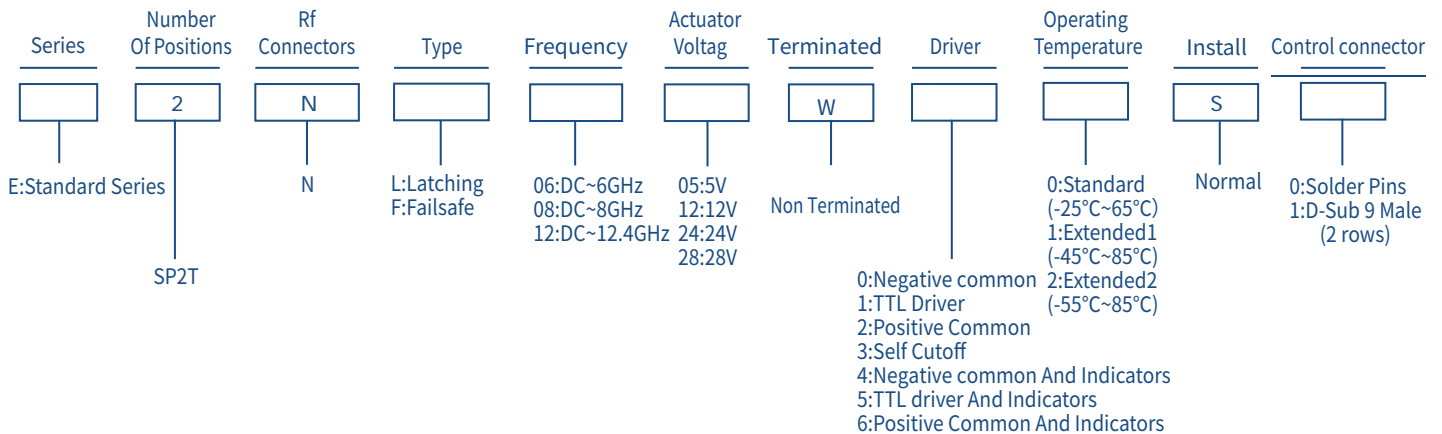
Failsafe Non TTL		
Actuator Terminals		RF Connector
Solder Pins/D-SUB 9Pin Male		
Pin No.	Define	No Power,RF 1-0
1	V	RF 2-0
2	N/A	-
3	GND	-
4	Ind.1	RF 1-0
5	Ind.2	RF 2-0
6	Ind.com	-
7	VDC	-
8~9	N/A	-

Failsafe TTL		
Actuator Terminals		RF Connector
Solder Pins/D-SUB 9Pin Male		
Pin No.	Define	No Power,RF 1-0
1	VDC	RF 2-0
2	TTL	-
3	GND	-
4	Ind.1	RF 1-0
5	Ind.2	RF 2-0
6	Ind.com	-
7~9	N/A	-

Latching Non TTL		
Actuator Terminals		RF Connector
Solder Pins/D-SUB 9Pin Male		
Pin No.	Define	-
1	V1	RF 1-0
2	V2	RF 2-0
3	GND	-
4	Ind.1	RF 1-0
5	Ind.2	RF 2-0
6	Ind.com	-
7	VDC	-
8~9	N/A	-

Latching TTL		
Actuator Terminals		RF Connector
Solder Pins/D-SUB 9Pin Male		
Pin No.	Define	-
1	VDC	-
2	TTL	RF 1-0
3	GND	-
4	TTL	RF 2-0
5	Ind.1	RF 1-0
6	Ind.2	RF 2-0
7	Ind.com	-
8~9	N/A	-

◆ Product Selection



★ EXP: E2NL0605W00S0: Standard Series、SP2T、N、Latching、DC~6GHz、5V、Non Terminated、Negative common、Standard、Normal、Solder Pins.

◆ COAXIAL SWITCH

SPDT N 18GHz High Power Failsafe / Latching

◆ RF Characteristics

Frequency (GHz)	Ins.loss (dB)	Isolation (dB)	VSWR	RF Power CW (W)
DC-5	0.3	70	1.3	350
5-12	0.5	60	1.5	250
12-18	0.7	50	1.7	180

◆ Operating Voltage/Coil Current

Operating Voltage(V)		12	24	28
Coil Current (mA)	Failsafe	300	180	150
	Latching	320	180	150

* It can be selected according to user requirements

TTL	TTL Low(V)	TTL High	
	0-0.3	3~5V	20mA

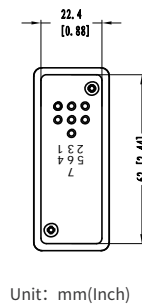
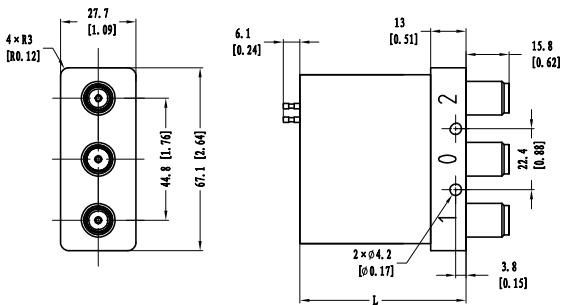
Indicators	Withstand Voltage V (max)	Current capacity mA(max)	Resistance Ω (max)
	50	100	15

* Connect VDC & GND before the function operates

◆ Outline Drawing

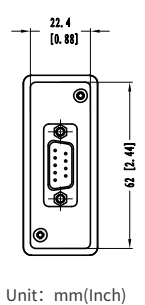
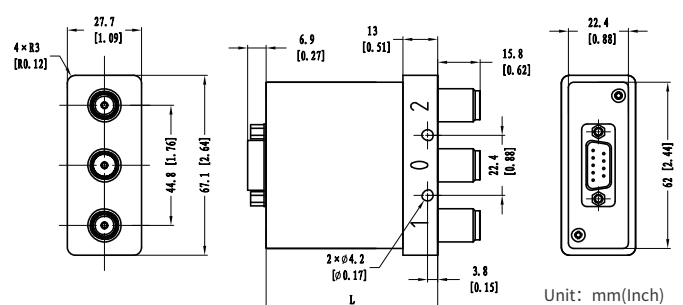
Solder Pins

D-SUB Male



Unit: mm(Inch)

L = 61.5(Non TTL/TTL/Indicators)



Unit: mm(Inch)

L = 64(Non TTL/TTL/Indicators)

◆ Specifications

Switching Sequence: Break before Make

Switching Time: 15ms max

Storage temperature: -55°C~85°C

Operating temperature: -25°C~65°C(Standard)

-45°C~85°C(Extended1)

-55°C~85°C(Extended2)

Mechanical Life Cycles: 2 million cycles

RF Connectors: N Female

Impedance: 50Ω

Mechanical Shock,Non-Operating: 50G、1/2 Sine、11 ms

Vibration Operating: 20-2000 Hz、10G RMS

Actuator Terminals: Solder Pins/D-SUB 9Pin Male

Weight: 250g

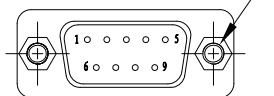


◆ Product Functions

- DC to 18GHz
- Low loss, Low VSWR, High Isolation
- N Female Connector
- Selectable TTL driver control

2 × UNC#4-40▽4

[Depth 0.157]



◆ Truth Table

DB9 male

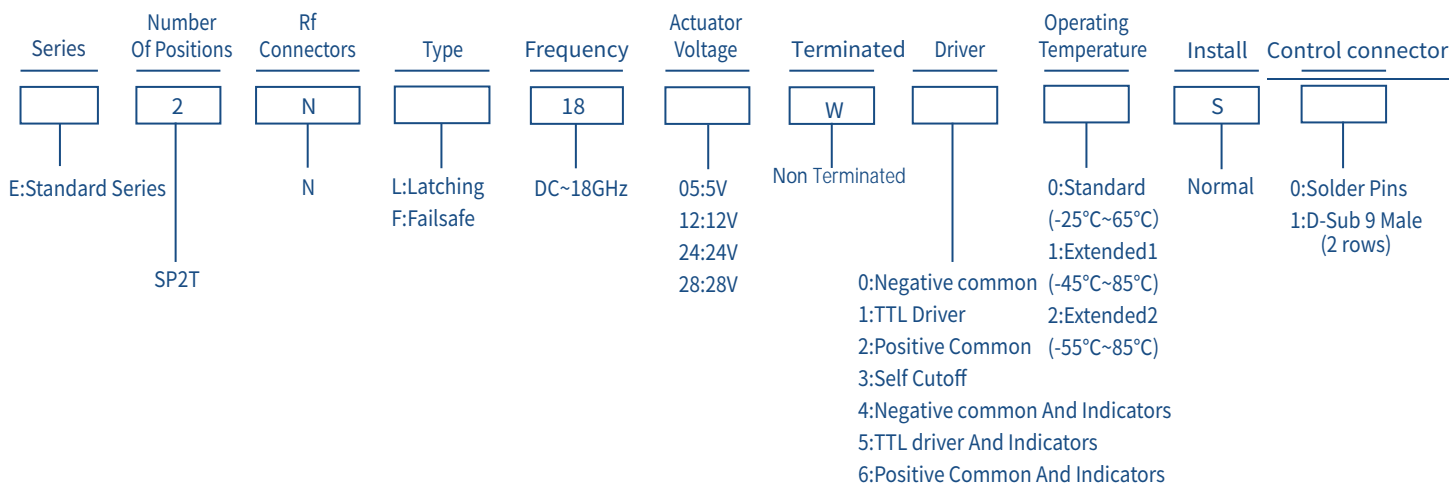
Failsafe Non TTL		
Actuator Terminals		RF Connector
Solder Pins/D-SUB 9Pin Male		
Pin No.	Define	No Power,RF 1-0
1	V	RF 2-0
2	N/A	-
3	GND	-
4	Ind.1	Indicators RF 1-0
5	Ind.2	
6	Ind.com	
7	VDC	
8~9	N/A	-

Failsafe TTL		
Actuator Terminals		RF Connector
Solder Pins/D-SUB 9Pin Male		
Pin No.	Define	No Power,RF 1-0
1	VDC	RF 2-0
2	TTL	-
3	GND	-
4	Ind.1	Indicators RF 1-0
5	Ind.2	
6	Ind.com	
7~9	N/A	-

Latching Non TTL		
Actuator Terminals		RF Connector
Solder Pins/D-SUB 9Pin Male		
Pin No.	Define	-
1	V1	RF 1-0
2	V2	RF 2-0
3	GND	-
4	Ind.1	Indicators RF 1-0
5	Ind.2	
6	Ind.com	
7	VDC	
8~9	N/A	-

Latching TTL		
Actuator Terminals		RF Connector
Solder Pins/D-SUB 9Pin Male		
Pin No.	Define	-
1	VDC	-
2	TTL	RF 1-0
3	GND	-
4	TTL	RF 2-0
5	Ind.1	Indicators RF 1-0
6	Ind.2	
7	Ind.com	
8~9	N/A	-

◆ Product Selection



★ EXP: E2NL1805W00S0: Standard Series、SP2T、N、Latching、DC~18GHz、5V、Non Terminated、Negative common、Standard、Normal、Solder Pins.

◆ COAXIAL SWITCH

SP3T-6T N 12.4GHz

High Power

Normally open/Failsafe

◆ RF Characteristics

Frequency (GHz)	Ins.loss (dB)	Isolation (dB)	VSWR	RF Power CW (W)
DC-5	0.3	70	1.3	350
5-12.4	0.5	60	1.5	250

◆ Operating Voltage/Coil Current

Operating Voltage(V)		12	24	28
Coil Current (mA)	Normally open	300	150	140
	Failsafe	270	150	170

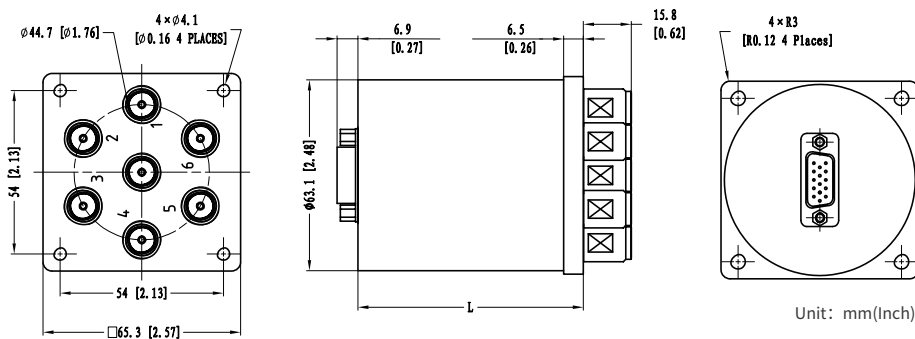
* It can be selected according to user requirements

TTL	TTL Low(V)	TTL High	
	0-0.3	3~5V	1.4mA

Indicators	Withstand Voltage V (max)	Current capacity mA(max)	Resistance Ω (max)
	50	100	15

Connect VDC & GND before the function operates

◆ Outline Drawing

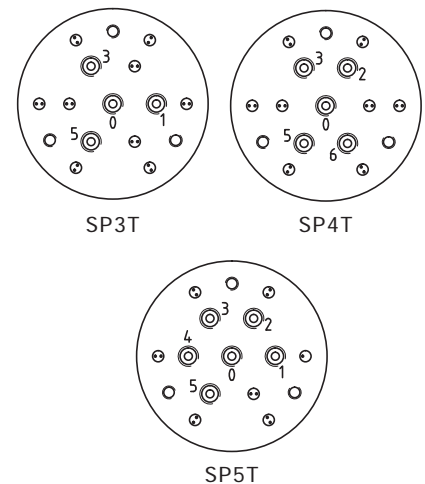


L = 74.5(Non TTL/TTL/Indicators)



◆ Product Functions

- DC to 12.4GHz
- Low loss, Low VSWR, High Isolation
- N Female Connector
- Selectable TTL control



◆ Specifications

Switching Sequence: Break before Make

Switching Time: 15ms max

Storage temperature: -55°C~85°C

Operating temperature: -25°C~65°C(Standard)

-45°C~85°C(Extended1)

-55°C~85°C(Extended2)

Mechanical Life Cycles: 2 million cycles

RF Connectors: N Female

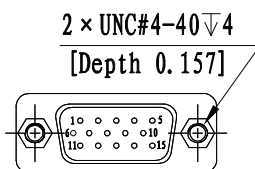
Impedance: 50Ω

Mechanical Shock,Non-Operating: 50G、1/2 Sine、11 ms

Vibration Operating: 20-2000 Hz、10G RMS

Actuator Terminals: D-SUB 15Pin Male

Weight: 955g



DB15 male

◆ Truth Table

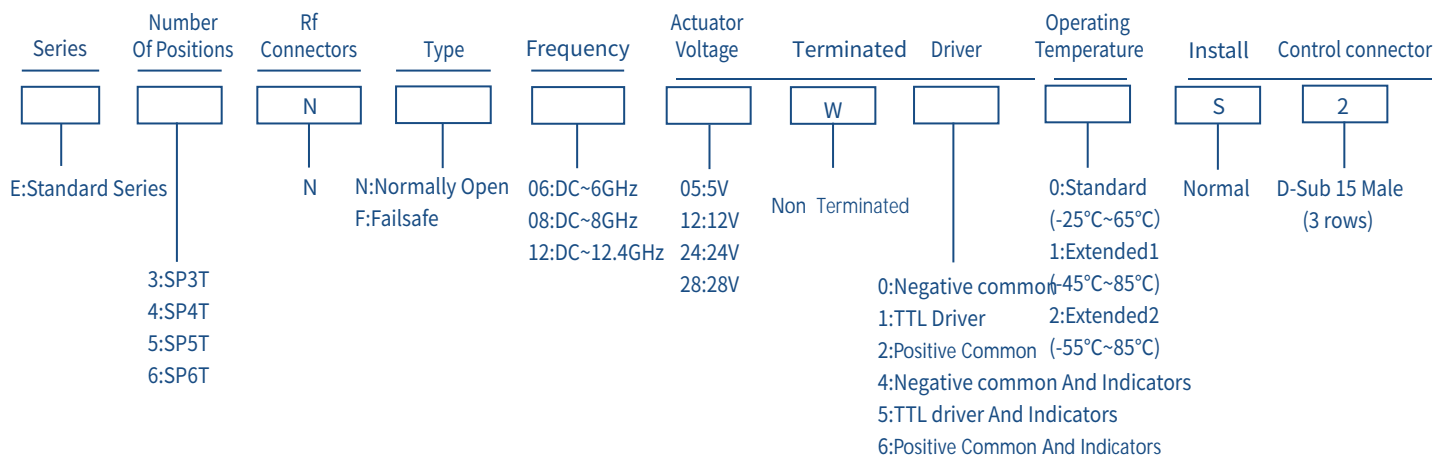
Normally open Non TTL					
Actuator Terminals		RF Connector			
D-SUB 15Pin Male					
Pin No.	Define	SP3T	SP4T	SP5T	SP6T
1	V1	RF 1-0	-	RF 1-0	RF 1-0
2	V2	-	RF 2-0	RF 2-0	RF 2-0
3	V3	RF 3-0	RF 3-0	RF 3-0	RF 3-0
4	V4	-	-	RF 4-0	RF 4-0
5	V5	RF 5-0	RF 5-0	RF 5-0	RF 5-0
6	V6	-	RF 6-0	-	RF 6-0
7	GND	-	-	-	-
8	Ind.1	RF 1-0	-	RF 1-0	RF 1-0
9	Ind.2	-	RF 2-0	RF 2-0	RF 2-0
10	Ind.3	RF 3-0	RF 3-0	RF 3-0	RF 3-0
11	Ind.4	-	-	RF 4-0	RF 4-0
12	Ind.5	RF 5-0	RF 5-0	RF 5-0	RF 5-0
13	Ind.6	-	RF 6-0	-	RF 6-0
14	Ind.com	-	-	-	-
15	VDC	-	-	-	-

Normally open TTL					
Actuator Terminals		RF Connector			
D-SUB 15Pin Male					
Pin No.	Define	SP3T	SP4T	SP5T	SP6T
1	TTL	RF 1-0	-	RF 1-0	RF 1-0
2	TTL	-	RF 2-0	RF 2-0	RF 2-0
3	TTL	RF 3-0	RF 3-0	RF 3-0	RF 3-0
4	TTL	-	-	RF 4-0	RF 4-0
5	TTL	RF 5-0	RF 5-0	RF 5-0	RF 5-0
6	TTL	-	RF 6-0	-	RF 6-0
7	VDC	-	-	-	-
8	GND	-	-	-	-
9	Ind.1	RF 1-0	-	RF 1-0	RF 1-0
10	Ind.2	-	RF 2-0	RF 2-0	RF 2-0
11	Ind.3	RF 3-0	RF 3-0	RF 3-0	RF 3-0
12	Ind.4	-	-	RF 4-0	RF 4-0
13	Ind.5	RF 5-0	RF 5-0	RF 5-0	RF 5-0
14	Ind.6	-	RF 6-0	-	RF 6-0
15	Ind.com	-	-	-	-

Failsafe Non TTL					
Actuator Terminals		RF Connector			
D-SUB 15Pin Male					
Pin No.	Define	SP3T	SP4T	SP5T	SP6T
-	No Power	RF 1-0	RF 2-0	RF 1-0	RF 1-0
1	V1	-	-	-	-
2	V2	-	-	RF 2-0	RF 2-0
3	V3	RF 3-0	RF 3-0	RF 3-0	RF 3-0
4	V4	-	-	RF 4-0	RF 4-0
5	V5	RF 5-0	RF 5-0	RF 5-0	RF 5-0
6	V6	-	RF 6-0	-	RF 6-0
7	GND	-	-	-	-
8	Ind.1	RF 1-0	-	RF 1-0	RF 1-0
9	Ind.2	-	RF 2-0	RF 2-0	RF 2-0
10	Ind.3	RF 3-0	RF 3-0	RF 3-0	RF 3-0
11	Ind.4	-	-	RF 4-0	RF 4-0
12	Ind.5	RF 5-0	RF 5-0	RF 5-0	RF 5-0
13	Ind.6	-	RF 6-0	-	RF 6-0
14	Ind.com	-	-	-	-
15	VDC	-	-	-	-

Failsafe TTL					
Actuator Terminals		RF Connector			
D-SUB 15Pin Male					
Pin No.	Define	SP3T	SP4T	SP5T	SP6T
-	No Power	RF 1-0	RF 2-0	RF 1-0	RF 1-0
1	TTL	-	-	-	-
2	TTL	-	-	RF 2-0	RF 2-0
3	TTL	RF 3-0	RF 3-0	RF 3-0	RF 3-0
4	TTL	-	-	RF 4-0	RF 4-0
5	TTL	RF 5-0	RF 5-0	RF 5-0	RF 5-0
6	TTL	-	RF 6-0	-	RF 6-0
7	VDC	-	-	-	-
8	GND	-	-	-	-
9	Ind.1	RF 1-0	-	RF 1-0	RF 1-0
10	Ind.2	-	RF 2-0	RF 2-0	RF 2-0
11	Ind.3	RF 3-0	RF 3-0	RF 3-0	RF 3-0
12	Ind.4	-	-	RF 4-0	RF 4-0
13	Ind.5	RF 5-0	RF 5-0	RF 5-0	RF 5-0
14	Ind.6	-	RF 6-0	-	RF 6-0
15	Ind.com	-	-	-	-

◆ Product Selection



★ EXP: E3NN0605W00S2: Standard Series, SP3T, N, Normally Open, DC~6GHz, 5V, Non Terminated, Negative common, Standard, Normal, D-Sub 15 Male.

◆ COAXIAL SWITCH

SP7T-8T N 8GHz

High Power Normally open

◆ RF Characteristics

Frequency (GHz)	Ins.loss (dB)	Isolation (dB)	VSWR	RF Power CW (W)
DC-5	0.3	70	1.3	350
5-8	0.5	60	1.5	300



◆ Operating Voltage/Coil Current

Operating Voltage(V)	12	24	28	
Coil Current (mA)	Normally open	300	150	140

* It can be selected according to user requirements

TTL	TTL Low(V)	TTL High	
	0-0.3	3~5V	1.4mA

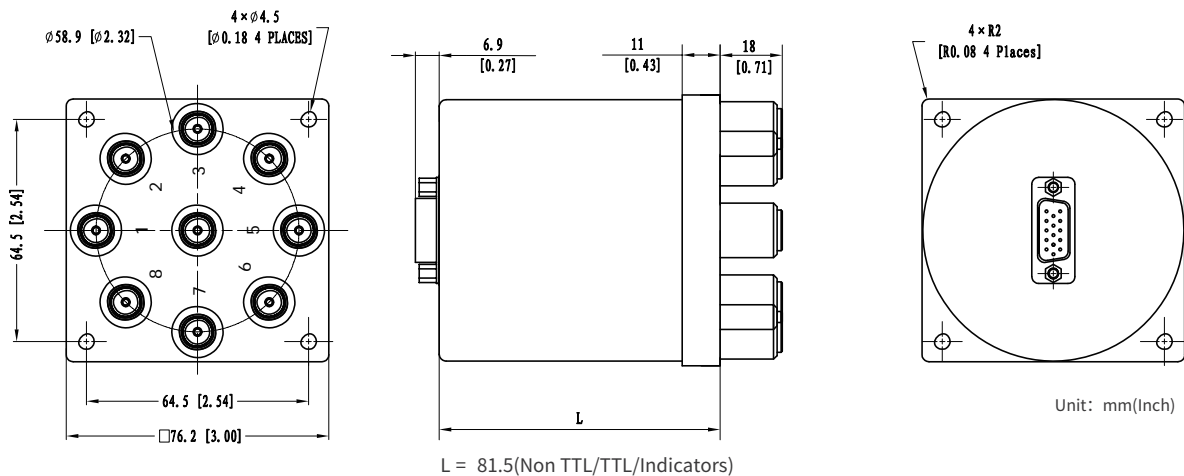
Indicators	Withstand Voltage V (max)	Current capacity mA(max)	Resistance Ω (max)
	50	100	15

* Connect VDC & GND before the function operates

◆ Product Functions

- DC to 8GHz
- Low loss, Low VSWR, High Isolation
- N Female Connector
- Selectable TTL driver control

◆ Outline Drawing



◆ Specifications

Switching Sequence: Break before Make

Switching Time: 15ms max

Storage temperature: -55°C~85°C

Operating temperature: -25°C~65°C(Standard)
-45°C~85°C(Extended1)
-55°C~85°C(Extended2)

Mechanical Life Cycles: 2 million cycles

RF Connectors: N Female

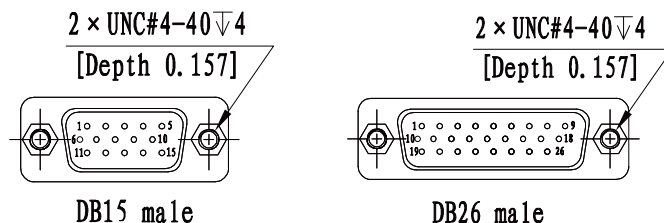
Impedance: 50Ω

Mechanical Shock, Non-Operating: 50G、1/2 Sine、11 ms

Vibration Operating: 20-2000 Hz、10G RMS

Actuator Terminals: D-SUB 15Pin Male

Weight: 1310g



DB15 male

DB26 male

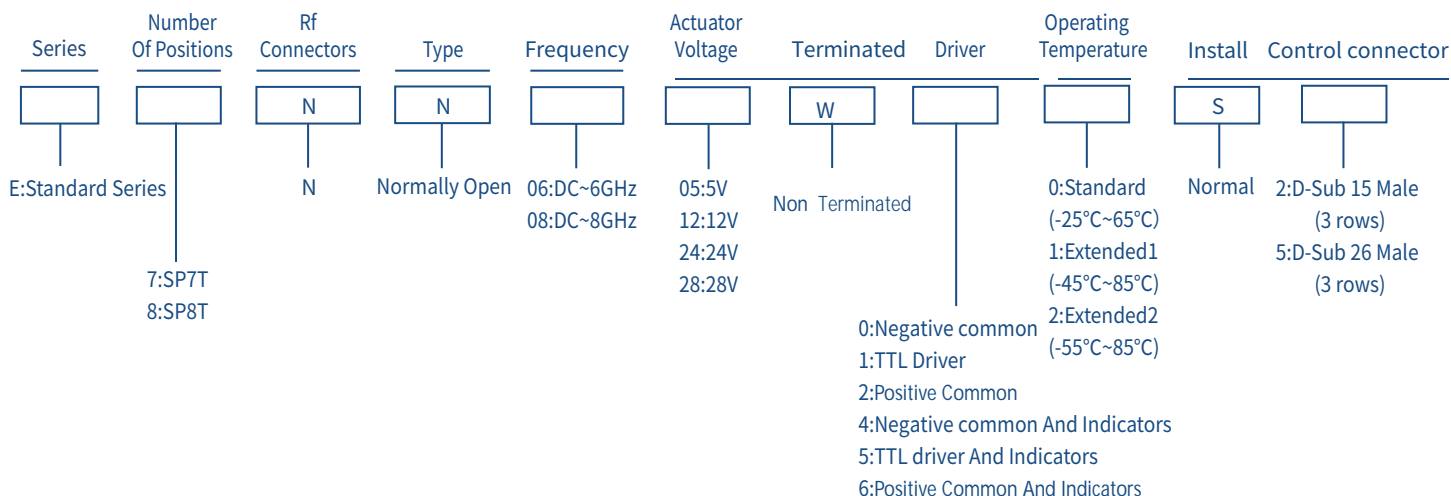
◆ Truth Table

* No indication function, control interface DB15 Male.

Normally open Non TTL			
Actuator Terminals		RF Connector	
D-SUB 15/26Pin Male			
Pin No.	Define	SP7T	SP8T
1	V1	RF 1-0	RF 1-0
2	V2	RF 2-0	RF 2-0
3	V3	RF 3-0	RF 3-0
4	V4	RF 4-0	RF 4-0
5	V5	RF 5-0	RF 5-0
6	V6	RF 6-0	RF 6-0
7	V7	RF 7-0	RF 7-0
8	V8	-	RF 8-0
9	GND	-	-
10	Ind.1	RF 1-0	RF 1-0
11	Ind.2	RF 2-0	RF 2-0
12	Ind.3	RF 3-0	RF 3-0
13	Ind.4	RF 4-0	RF 4-0
14	Ind.5	RF 5-0	RF 5-0
15	Ind.6	RF 6-0	RF 6-0
16	Ind.7	RF 7-0	RF 7-0
17	Ind.8	-	RF 8-0
18	Ind.com	-	-
19	VDC	-	-
20~26	N/A	-	-

Normally open TTL			
Actuator Terminals		RF Connector	
D-SUB 15/26Pin Male			
Pin No.	Define	SP7T	SP8T
1	TTL	RF 1-0	RF 1-0
2	TTL	RF 2-0	RF 2-0
3	TTL	RF 3-0	RF 3-0
4	TTL	RF 4-0	RF 4-0
5	TTL	RF 5-0	RF 5-0
6	TTL	RF 6-0	RF 6-0
7	TTL	RF 7-0	RF 7-0
8	TTL	-	RF 8-0
9	VDC	-	-
10	GND	-	-
11	Ind.1	RF 1-0	RF 1-0
12	Ind.2	RF 2-0	RF 2-0
13	Ind.3	RF 3-0	RF 3-0
14	Ind.4	RF 4-0	RF 4-0
15	Ind.5	RF 5-0	RF 5-0
16	Ind.6	RF 6-0	RF 6-0
17	Ind.7	RF 7-0	RF 7-0
18	Ind.8	-	RF 8-0
19	Ind.com	-	-
20~26	N/A	-	-

◆ Product Selection



★ EXP: E7NN0605W00S2: Standard Series, SP7T, N, Normally Open, DC~6GHz, 5V, Non Terminated, Negative common, Standard, Normal, D-Sub 15 Male.

◆ COAXIAL SWITCH

SP9T-10T N 6GHz

High Power

Normally open

◆ RF Characteristics

Frequency (GHz)	Ins.loss (dB)	Isolation (dB)	VSWR	RF Power CW (W)
DC-4	0.3	70	1.3	350
4-6	0.4	70	1.6	300



◆ Operating Voltage/Coil Current

Operating Voltage(V)		12	24	28
Coil Current (mA)	Normally open	300	150	140

* It can be selected according to user requirements

TTL	TTL Low(V)	TTL High	
	0-0.3	3~5V	1.4mA

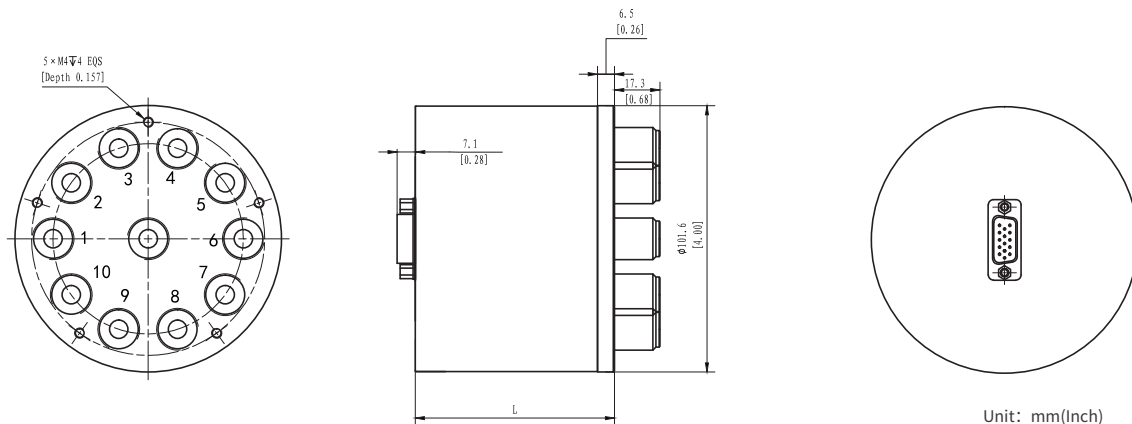
Indicators	Withstand Voltage V (max)	Current capacity mA (max)	Resistance Ω (max)
	50	100	15

* Connect VDC & GND before the function operates

◆ Product Functions

- DC to 6GHz
- Low loss, Low VSWR, High Isolation
- N Female Connector
- Selectable TTL driver control

◆ Outline Drawing



L = 76(Non TTL/TTL/Indicators)

◆ Specifications

Switching Sequence: Break before Make

Switching Time: 15ms max

Storage temperature: -55°C~85°C

Operating temperature: -25°C~65°C(Standard)
-45°C~85°C(Extended1)
-55°C~85°C(Extended2)

Mechanical Life Cycles: 2 million cycles

RF Connectors: N Female

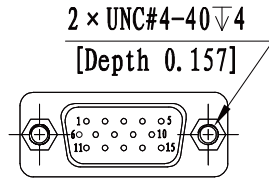
Impedance: 50 Ω

Mechanical Shock, Non-Operating: 50G, 1/2 Sine, 11 ms

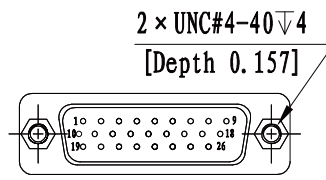
Vibration Operating: 20-2000 Hz, 10G RMS

Actuator Terminals: D-SUB 15Pin Male

Weight: 2010g



DB15 male



DB26 male

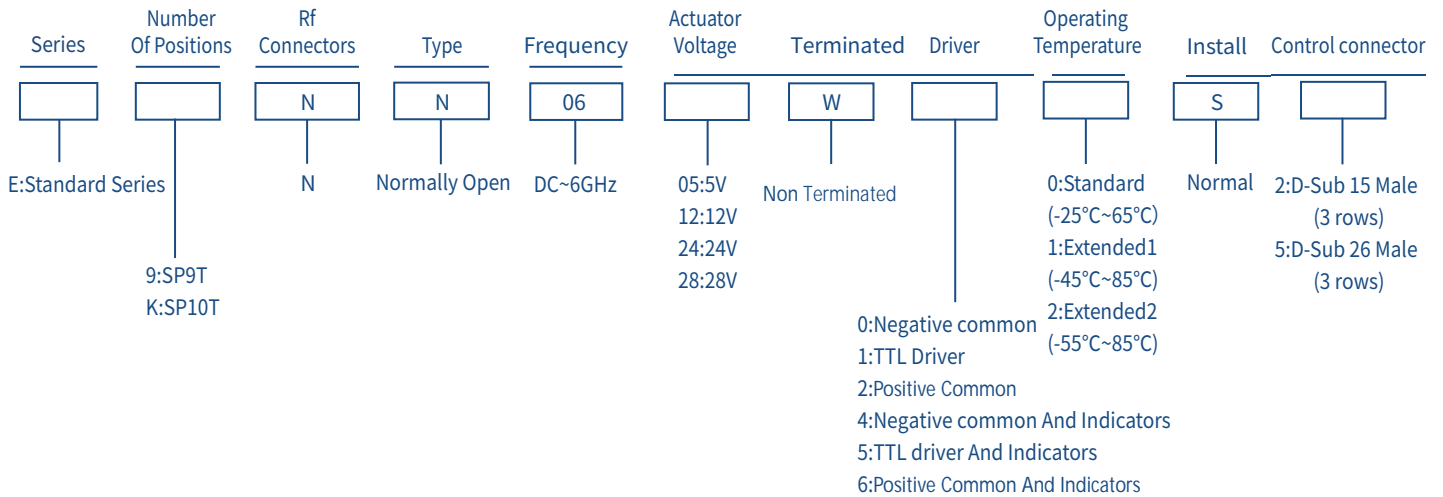
◆ Truth Table

* No indication function, control interface DB15 Male.

Normally open Non TTL			
Actuator Terminals		RF Connector	
D-SUB 15/26Pin Male			
Pin No.	Define	SP7T	SP8T
1	V1	RF 1-0	RF 1-0
2	V2	RF 2-0	RF 2-0
3	V3	RF 3-0	RF 3-0
4	V4	RF 4-0	RF 4-0
5	V5	RF 5-0	RF 5-0
6	V6	RF 6-0	RF 6-0
7	V7	RF 7-0	RF 7-0
8	V8	-	RF 8-0
9	GND	-	-
10	Ind.1	Indicators	RF 1-0
11	Ind.2		RF 2-0
12	Ind.3		RF 3-0
13	Ind.4		RF 4-0
14	Ind.5		RF 5-0
15	Ind.6		RF 6-0
16	Ind.7		RF 7-0
17	Ind.8		-
18	Ind.com		-
19	VDC	-	-
20~26	N/A	-	-

Normally open TTL			
Actuator Terminals		RF Connector	
D-SUB 15/26Pin Male			
Pin No.	Define	SP7T	SP8T
1	TTL	RF 1-0	RF 1-0
2	TTL	RF 2-0	RF 2-0
3	TTL	RF 3-0	RF 3-0
4	TTL	RF 4-0	RF 4-0
5	TTL	RF 5-0	RF 5-0
6	TTL	RF 6-0	RF 6-0
7	TTL	RF 7-0	RF 7-0
8	TTL	-	RF 8-0
9	VDC	-	-
10	GND	-	-
11	Ind.1	Indicators	RF 1-0
12	Ind.2		RF 2-0
13	Ind.3		RF 3-0
14	Ind.4		RF 4-0
15	Ind.5		RF 5-0
16	Ind.6		RF 6-0
17	Ind.7		RF 7-0
18	Ind.8		-
19	Ind.com		-
20~26	N/A	-	-

◆ Product Selection



★ EXP: E9NN0612W00S2: Standard Series, SP9T, N, Normally Open, DC~6GHz, 12V, Non Terminated, Negative common, Standard, Normal, D-Sub 15 Male.

◆ COAXIAL SWITCH

DPDT N 12.4GHz High Power Failsafe / Latching

◆ RF Characteristics

Frequency (GHz)	Ins.loss (dB)	Isolation (dB)	VSWR	RF Power CW (W)
DC-5	0.3	70	1.3	350
5-12.4	0.5	60	1.5	250

◆ Operating Voltage/Coil Current

Operating Voltage(V)		12	24	28
Coil Current (mA)	Failsafe	350	200	180
	Latching	400	200	185

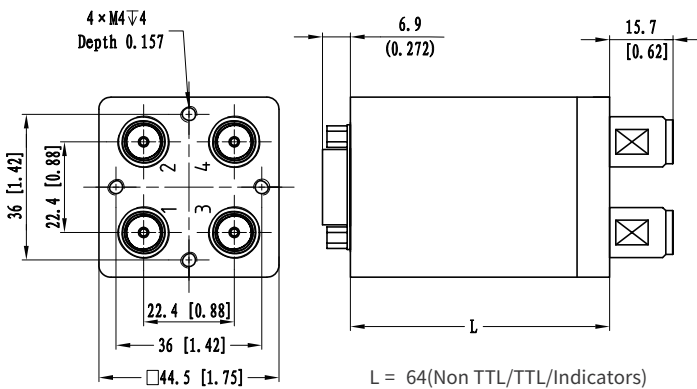
* It can be selected according to user requirements

TTL	TTL Low(V)	TTL High	
	0-0.3	3~5V	1.4mA

Indicators	Withstand Voltage V (max)	Current capacity mA (max)	Resistance Ω (max)
	50	100	15

* Connect VDC&GND before the function operates

◆ Outline Drawing

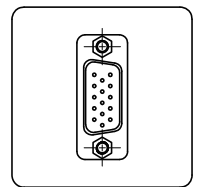


◆ Product Functions

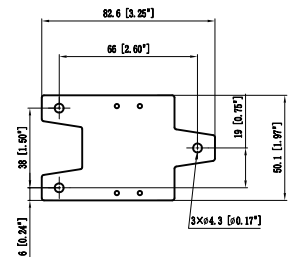
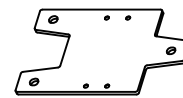
- DC to 12.4GHz
- Low loss, Low VSWR, High Isolation
- N Female Connector
- Selectable TTL driver control



◆ Backplane



Unit: mm(Inch)



Unit: mm(Inch)

◆ Specifications

Switching Sequence: Break before Make

Switching Time: 15ms max

Storage temperature: -55°C~85°C

Operating temperature: -25°C~65°C(Standard)
-45°C~85°C(Extended1)
-55°C~85°C(Extended2)

Mechanical Life Cycles: 2 million cycles

RF Connectors: N Female

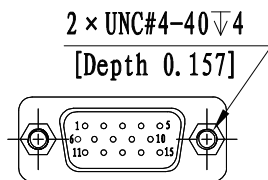
Impedance: 50Ω

Mechanical Shock,Non-Operating: 50G、1/2 Sine、11 ms

Vibration Operating: 20-2000 Hz、10G RMS

Actuator Terminals: D-SUB 15Pin Male

Weight: 380g



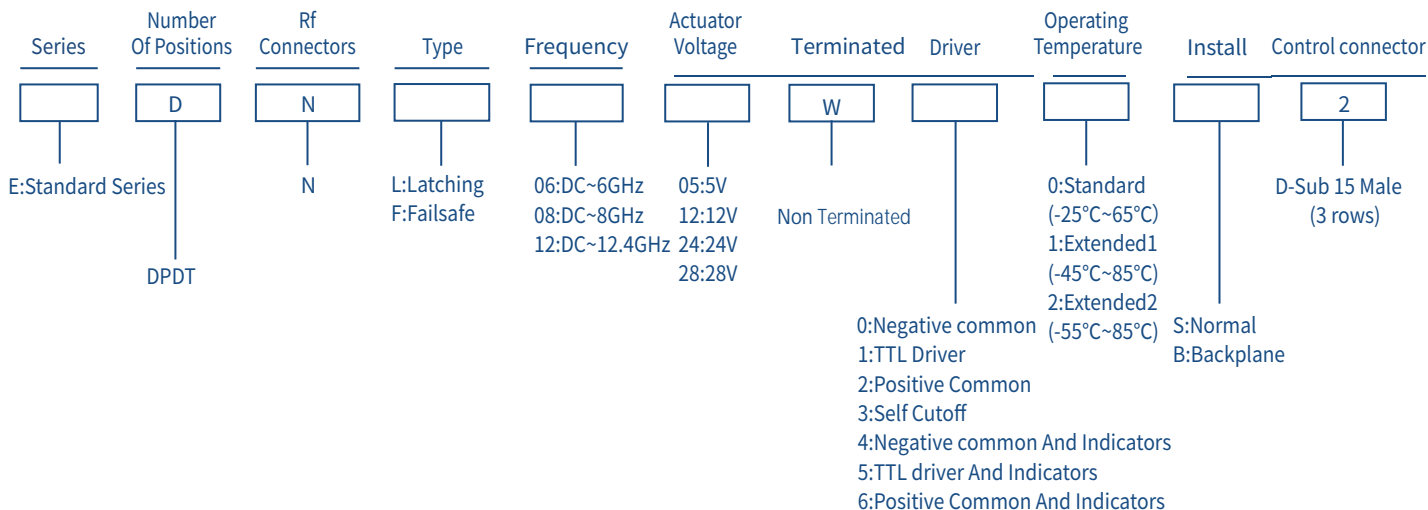
DB15 male

◆ Truth Table

Failsafe Non TTL			Failsafe TTL			
Actuator Terminals		RF Connector	Actuator Terminals		RF Connector	
Solder Pins/D-SUB 15Pin Male			Solder Pins/D-SUB 15Pin Male			
Pin No.	Define	No Power,RF 1-2,3-4	Pin No.	Define	No Power,RF 1-2,3-4	
1	GND	-	1	VDC	-	
2	V	RF 1-3,2-4	2	GND	-	
3~11	N/A	-	3	TTL	RF 1-3,2-4	
12	VDC	Indicators	4~12	N/A	-	
13	Ind.1		RF 1-2,3-4	13	Ind.1	RF 1-2,3-4
14	Ind.2		RF 1-3,2-4	14	Ind.2	RF 1-3,2-4
15	Ind.com	-	15	Ind.com	-	

Latching Non TTL			Latching TTL			
Actuator Terminals		RF Connector	Actuator Terminals		RF Connector	
Solder Pins/D-SUB 15Pin Male			Solder Pins/D-SUB 15Pin Male			
Pin No.	Define	-	Pin No.	Define	-	
1	V1	RF 1-2,3-4	1	VDC	-	
2	V2	RF 1-3,2-4	2	GND	-	
3	GND	-	3	TTL	RF 1-2,3-4	
4~11	N/A	-	4	TTL	RF 1-3,2-4	
12	VDC	Indicators	5~12	N/A	-	
13	Ind.1		RF 1-2,3-4	13	Ind.1	RF 1-2,3-4
14	Ind.2		RF 1-3,2-4	14	Ind.2	RF 1-3,2-4
15	Ind.com	-	15	Ind.com	-	

◆ Product Selection



★ EXP: EDNL0605W00S2: Standard Series、DPDT、N、Latching、DC-6GHz、5V、Non Terminated、Negative common、Standard、Normal、D-Sub 15 Male.

◆ COAXIAL SWITCH

SPDT SC 6GHz High Power Failsafe / Latching

◆ RF Characteristics

Frequency (GHz)	Ins.loss (dB)	Isolation (dB)	VSWR	RF Power CW (W)
DC-6	0.3	70	1.3	650



◆ Operating Voltage/Coil Current

Operating Voltage(V)		12	24	28
Coil Current (mA)	Failsafe	350	200	180
	Latching	400	200	185

* It can be selected according to user requirements

TTL	TTL Low(V)	TTL High	
	0-0.3	3~5V	20mA

Indicators	Withstand Voltage V (max)	Current capacity mA (max)	Resistance Ω (max)
	50	100	15

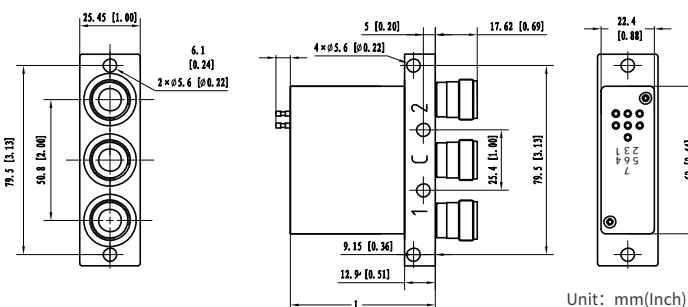
* Connect VDC & GND before the function operates

◆ Product Functions

- DC to 6GHz
- Low loss, Low VSWR, High Isolation
- SC Female Connector
- Selectable TTL driver control

◆ Outline Drawing

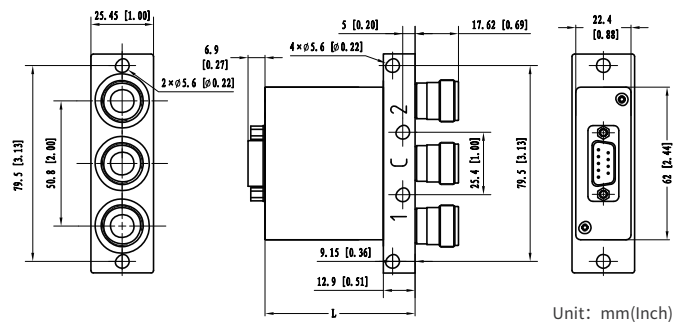
Solder Pins



Unit: mm(Inch)

L = 61(Non TTL/TTL/Indicators)

D-SUB Male



Unit: mm(Inch)

L = 64(Non TTL/TTL/Indicators)

◆ Specifications

Switching Sequence: Break before Make

Switching Time: 15ms max

Storage temperature: -55°C~85°C

Operating temperature: -25°C~65°C(Standard)
-45°C~85°C(Extended1)
-55°C~85°C(Extended2)

Mechanical Life Cycles: 2 million cycles

RF Connectors: SC Female

Impedance: 50 Ω

Mechanical Shock, Non-Operating: 50G, 1/2 Sine, 11 ms

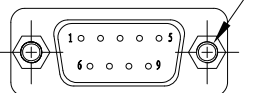
Vibration Operating: 20-2000 Hz, 10G RMS

Actuator Terminals: Solder Pins/D-SUB 9Pin Male

Weight: 240g

2 × UNC#4-40▽4

[Depth 0.157]



◆ Truth Table

DB9 male

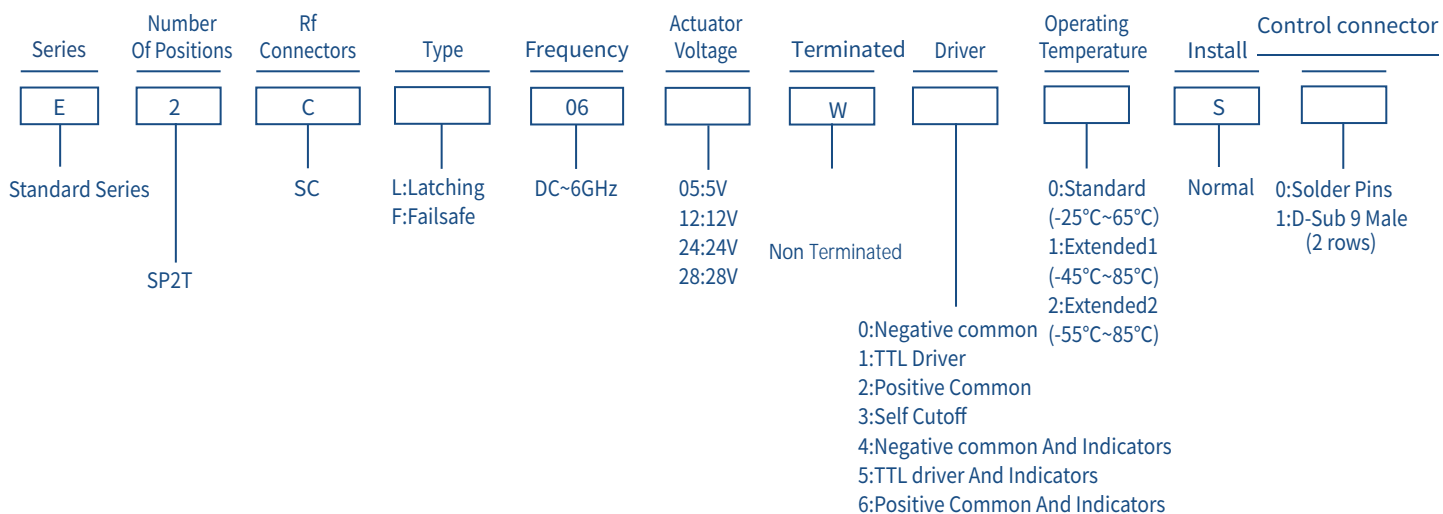
Failsafe Non TTL		
Actuator Terminals		RF Connector
Solder Pins/D-SUB 9Pin Male		
Pin No.	Define	No Power,RF 1-0
1	V	RF 2-0
2	N/A	-
3	GND	-
4	Ind.1	RF 1-0
5	Ind.2	RF 2-0
6	Ind.com	-
7	VDC	-
8~9	N/A	-

Failsafe TTL		
Actuator Terminals		RF Connector
Solder Pins/D-SUB 9Pin Male		
Pin No.	Define	No Power,RF 1-0
1	VDC	RF 2-0
2	TTL	-
3	GND	-
4	Ind.1	RF 1-0
5	Ind.2	RF 2-0
6	Ind.com	-
7~9	N/A	-

Latching Non TTL		
Actuator Terminals		RF Connector
Solder Pins/D-SUB 9Pin Male		
Pin No.	Define	-
1	V1	RF 1-0
2	V2	RF 2-0
3	GND	-
4	Ind.1	RF 1-0
5	Ind.2	RF 2-0
6	Ind.com	-
7	VDC	-
8~9	N/A	-

Latching TTL		
Actuator Terminals		RF Connector
Solder Pins/D-SUB 9Pin Male		
Pin No.	Define	-
1	VDC	-
2	TTL	RF 1-0
3	GND	-
4	TTL	RF 2-0
5	Ind.1	RF 1-0
6	Ind.2	RF 2-0
7	Ind.com	-
8~9	N/A	-

◆ Product Selection



★ EXP: E2CL0605W00S0: Standard Series, SP2T, SC, Latching, DC~6GHz, 5V, Non Terminated, Negative common, Standard, Normal, Solder Pins.

◆ COAXIAL SWITCH

SP6T SC 6GHz High Power Normally open

◆ RF Characteristics

Frequency (GHz)	Ins.loss (dB)	Isolation (dB)	VSWR	RF Power CW (W)
DC-6	0.3	70	1.3	650



◆ Operating Voltage/Coil Current

Operating Voltage(V)		12	24	28
Coil Current (mA)	Normally open	300	150	140

* It can be selected according to user requirements

TTL	TTL Low(V)	TTL High	
	0-0.3	3~5V	1.4mA

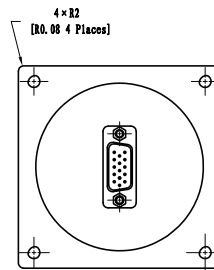
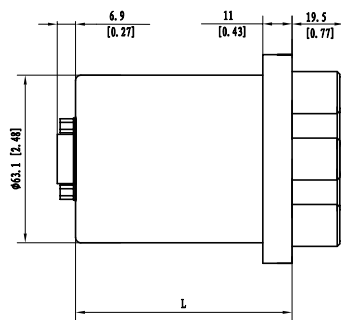
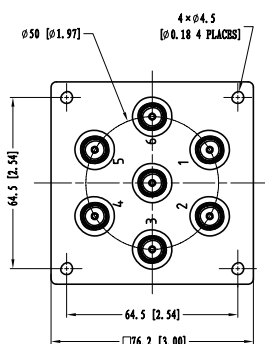
Indicators	Withstand Voltage V (max)	Current capacity mA(max)	Resistance Ω (max)
	50	100	15

* Connect VDC & GND before the function operates

◆ Product Functions

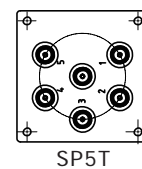
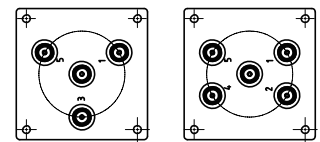
- DC to 6GHz
- Low loss, Low VSWR, High Isolation
- SC Female Connector
- Selectable TTL driver control

◆ Outline Drawing



Unit: mm(Inch)

L = 81.5(Non TTL/TTL/Indicators)



◆ Specifications

Switching Sequence: Break before Make

Switching Time: 15ms max

Storage temperature: -55°C~85°C

Operating temperature: -25°C~65°C(Standard)
-45°C~85°C(Extended1)
-55°C~85°C(Extended2)

Mechanical Life Cycles: 2 million cycles

RF Connectors: SC Female

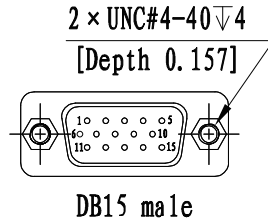
Impedance: 50Ω

Mechanical Shock,Non-Operating: 50G、1/2 Sine、11 ms

Vibration Operating: 20-2000 Hz、10G RMS

Actuator Terminals: D-SUB 15Pin Male

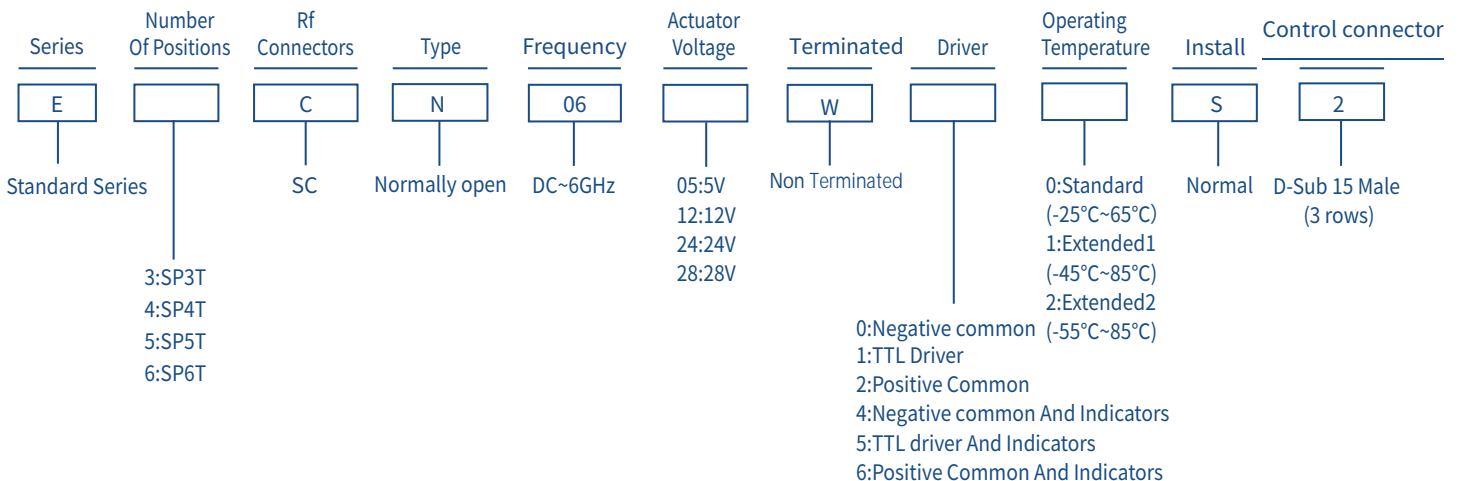
Weight: 700g



◆ Truth Table

Normally open Non TTL						Normally open TTL					
Actuator Terminals		RF Connector				Actuator Terminals		RF Connector			
D-SUB 15Pin Male						D-SUB 15Pin Male					
Pin No.	Define	SP3T	SP4T	SP5T	SP6T	Pin No.	Define	SP3T	SP4T	SP5T	SP6T
1	V1	RF 1-0	-	RF 1-0	RF 1-0	1	TTL	RF 1-0	-	RF 1-0	RF 1-0
2	V2	-	RF 2-0	RF 2-0	RF 2-0	2	TTL	-	RF 2-0	RF 2-0	RF 2-0
3	V3	RF 3-0	RF 3-0	RF 3-0	RF 3-0	3	TTL	RF 3-0	RF 3-0	RF 3-0	RF 3-0
4	V4	-	-	RF 4-0	RF 4-0	4	TTL	-	-	RF 4-0	RF 4-0
5	V5	RF 5-0	RF 5-0	RF 5-0	RF 5-0	5	TTL	RF 5-0	RF 5-0	RF 5-0	RF 5-0
6	V6	-	RF 6-0	-	RF 6-0	6	TTL	-	RF 6-0	-	RF 6-0
7	GND	-	-	-	-	7	VDC	-	-	-	-
8	Ind.1	RF 1-0	-	RF 1-0	RF 1-0	8	GND	-	-	-	-
9	Ind.2	-	RF 2-0	RF 2-0	RF 2-0	9	Ind.1	RF 1-0	-	RF 1-0	RF 1-0
10	Ind.3	RF 3-0	RF 3-0	RF 3-0	RF 3-0	10	Ind.2	-	RF 2-0	RF 2-0	RF 2-0
11	Ind.4	-	-	RF 4-0	RF 4-0	11	Ind.3	RF 3-0	RF 3-0	RF 3-0	RF 3-0
12	Ind.5	RF 5-0	RF 5-0	RF 5-0	RF 5-0	12	Ind.4	-	-	RF 4-0	RF 4-0
13	Ind.6	-	RF 6-0	-	RF 6-0	13	Ind.5	RF 5-0	RF 5-0	RF 5-0	RF 5-0
14	Ind.com	-	-	-	-	14	Ind.6	-	RF 6-0	-	RF 6-0
15	VDC	-	-	-	-	15	Ind.com	-	-	-	-

◆ Product Selection



★ EXP: E3CN0605W00S2: Standard Series、SP3T、SC、Normally open、DC~6GHz、5V、Non Terminated、Negative common、Standard、Normal、D-Sub 15 Male.

Smart



◆ Specifications

- Miniaturized
- Low High Cost Performance
- Touchable Screen Interface Design
- Provide Remote Control Interface And Instructions
- Simple Operation

SP6T 18/26.5/40/43.5/ 50/53GHz USB

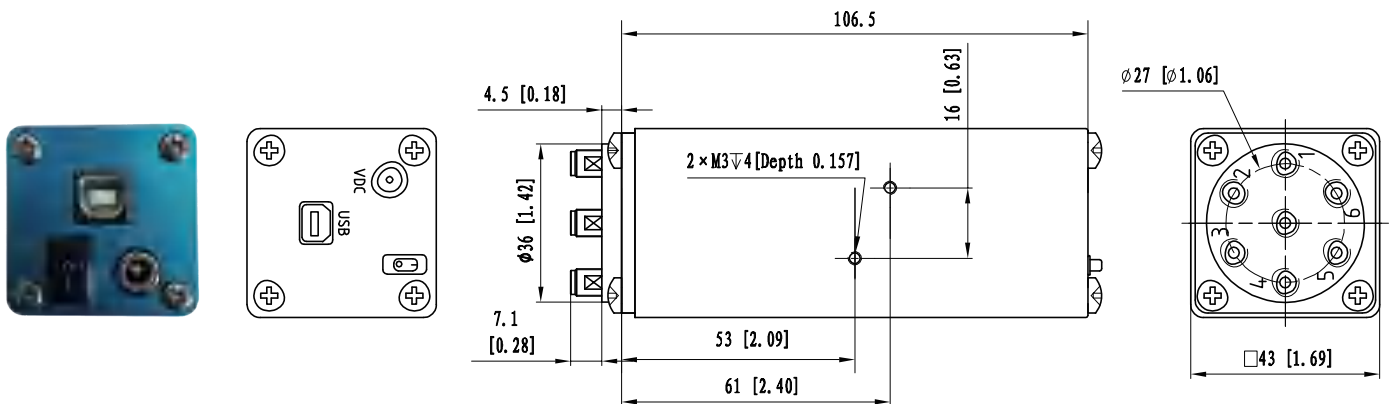
◆ RF Characteristics

Frequency (GHz)	Ins.loss (dB)	Isolation (dB)	VSWR	RF Power CW (W)
DC-6	0.3	70	1.3	40
6-12	0.4	70	1.4	30
12-18	0.5	60	1.5	25
18-26.5	0.7	55	1.7	12
26.5-32	0.8	50	1.8	8
32-40	0.9	50	1.9	5
40-43	1.0	50	2.0	4
43-50	1.2	50	2.2	3
50-53	1.3	50	2.2	2

◆ Operating Voltage/Coil Current

Operating Voltage(V)		12
Coil Current(mA)	Normally open	300

◆ Outline Drawing



◆ Product Functions

- DC to 53GHz
- Low loss, Low VSWR, High Isolation
- SMA/2.92/1.85 Connector
- Channel Indicator Light Function

◆ Specifications

Switching Sequence: Break before Make

Switching Time: 15ms max

Storage temperature: -55°C~85°C

Operating temperature: -25°C~65°C(Standard)
-45°C~85°C(Extended1)
-55°C~85°C(Extended2)

Mechanical Life Cycles: 2 million cycles

RF Connectors: SMA/2.92/1.85

Impedance: 50Ω

Mechanical Shock,Non-Operating: 50G、1/2 Sine、11 ms

Vibration Operating: 20-2000 Hz、10G RMS

Actuator Terminals: USB

Weight: 295g

◆ COAXIAL SWITCH

SP8T 18/26.5/40GHz USB

◆ RF Characteristics

Frequency (GHz)	Ins.loss (dB)	Isolation (dB)	VSWR	RF Power CW (W)
DC-6	0.3	70	1.3	40
6-12	0.4	60	1.4	30
12-18	0.5	55	1.5	25
18-26.5	0.7	50	1.7	12
26.5-32	0.8	50	1.8	8
32-40	0.9	50	1.9	5



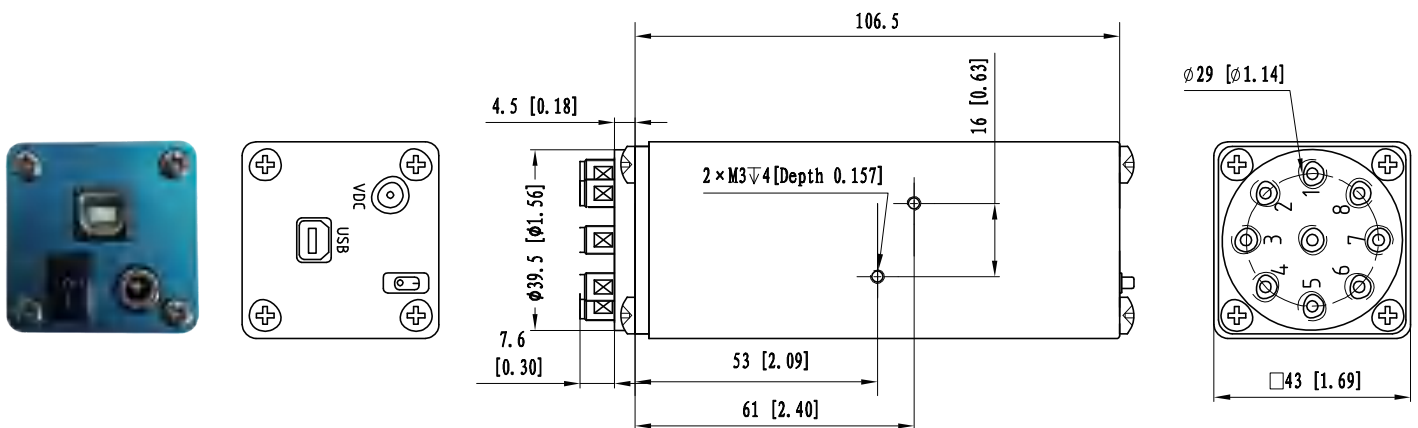
◆ Operating Voltage/Coil Current

Operating Voltage(V)		12
Coil Current(mA)	Normally open	300

◆ Product Functions

- DC to 40GHz
- Low loss, Low VSWR, High Isolation
- SMA/2.92 Connector
- Channel Indicator Light Function

◆ Outline Drawing



◆ Specifications

Switching Sequence: Break before Make	Mechanical Life Cycles: 2 million cycles	Mechanical Shock, Non-Operating: 50G、1/2 Sine、11 ms
Switching Time: 15ms max	RF Connectors: SMA/2.92	Vibration Operating: 20-2000 Hz、10G RMS
Storage temperature: -55°C~85°C	Impedance: 50Ω	Actuator Terminals: USB
Operating temperature: -25°C~65°C(Standard)		Weight: 300g
-45°C~85°C(Extended1)		
-55°C~85°C(Extended2)		

Miniaturized Switch Matrix



◆ Specifications

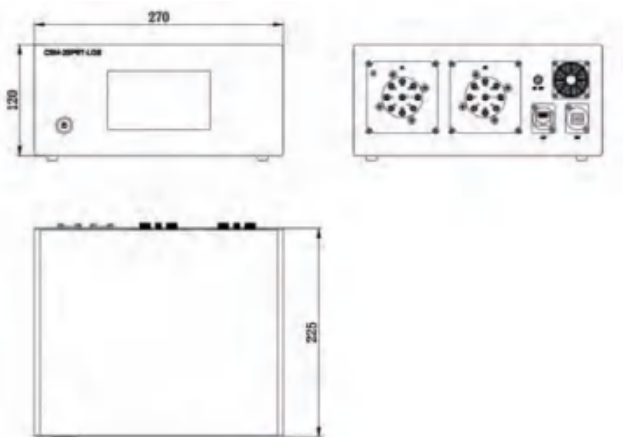
Item	Specifications	Note
Ins.loss of any single link	<0.5dB	DC-18GHz Subject to switch selection
VSWR of any single link	<1.6	
Isolation between any two ports	≥70dB	

◆ Application

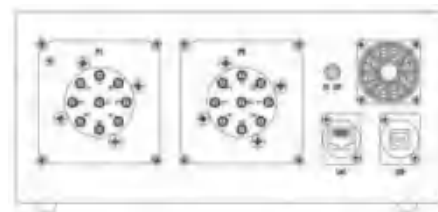
- Laboratory Testing
- Automatic Test Equipment
- Production Line Test

◆ Product Size

Outline Drawing



Rear Panel Diagram



◆ Specification

Switch Sequence: DC-67GHz(Customizable Design)

RF Connector: SMA/N/3.5/2.92/2.4/1.85 Female(Customizable Design)

Impedance: 50Ω

Size: 150mm×110mm×60mm(Customizable Design)

Single Channel Conduction Time: ≤30ms (Matrix Combination Form Association)

Matrix Combination: Include Several SPDT, SPnT(Customizable Design)

Actuator Voltage: DC 24V(Customizable Design)

Mechanical Life Cycles:2 Million Cycles(Cold Switching, Switch Type Association)

Driver:Remote Control:USB,LAN,Provide Complete Control Instructions

Other

Other

► High Performance



► Low PIM



► Very High Power



► Low Temperature



Miniaturized Switch Matrix

Miniaturized Switch Matrix

