

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

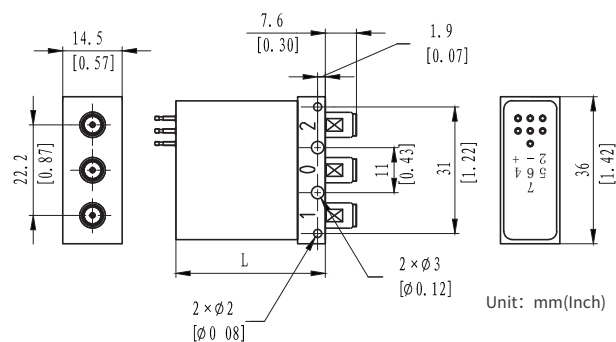


◆ Product Functions

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

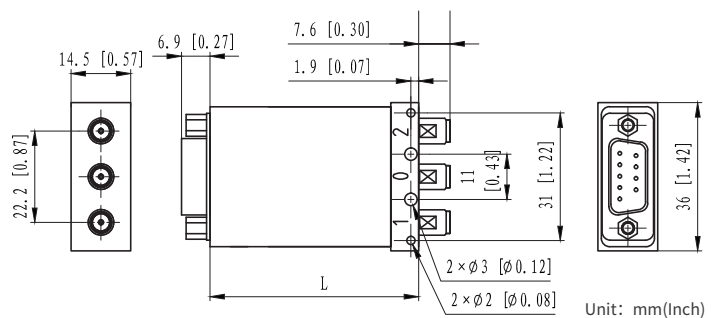
◆ Outline Drawing

Solder Pins



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

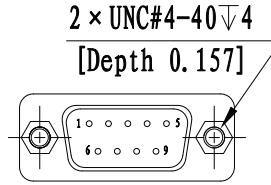
D-SUB Male



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)		



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	Install	Control connector
E	2	K		43		W			S	
Standard Series	SP2T	2.92mm	L:Latching F:Failsafe	DC~43.5GHz	05:5V 12:12V 24:24V 28:28V	No Terminated	0:Negative common 1:TTL Driver 2:Positive Common 3:Self Cutoff 4:Negative common And Indicators 5:TTL driver And Indicators 6:Positive Common And Indicators	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: E2KL4305W00S0: Standard Series、SP2T、2.92mm、Latching、DC~43.5GHz、5V、Non Terminated、Negative common、Standard、Normal、Solder pins.