

SPDT 53GHz

Load
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	180
	Latching	400	200	185

* It can be selected according to user requirements

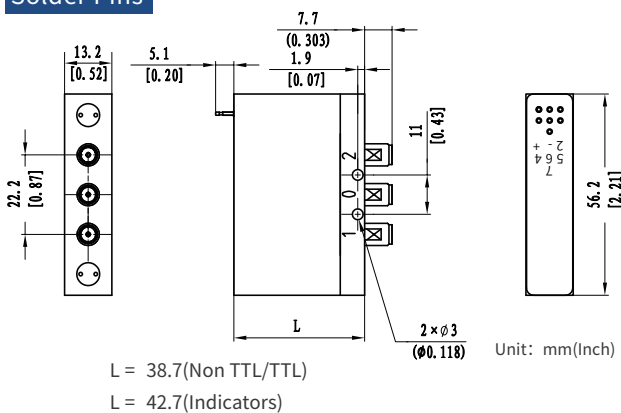
TTL	TTL Low(V)	TTL High	
	0-0.3	3~5V	20mA

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

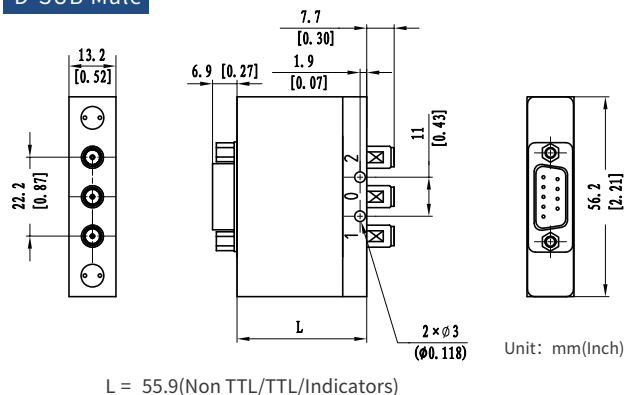
* Connect VDC & GND before the function operates

◆ Outline Drawing

Solder Pins



D-SUB Male



◆ Product Functions

- DC to 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

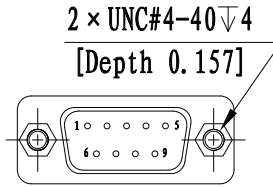
Impedance: 50Ω

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		
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	Load	Driver	Operating Temperature	Install	Actuator Terminals
E	2	5		53		T			S	
Standard Series	SP2T	1.85mm	L:Latching F:Failsafe	DC~53GHz	05:5V 12:12V 24:24V 28:28V	Load	0:Ground Plane 1:TTL Driver 2:Positive Common 3:Self Cutoff 4:Ground Plane 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: E25L5305T00S0: Standard Series、SP2T、1.85mm、Latching、DC-53GHz、5V、Load、Ground Plane、Standard、Normal、Solder Pins.