

SP4T Coaxial Switch
LF-SP4T-XX40-DT
DC-40 GHz, DSUB-15, Terminated



Electrical Characteristics:

Parameter	Condition		
Frequency range	DC-40 GHz		
Impedance	50 Ω		
Operation mode	Normally Open		
Switch sequence	Break before make		
Switching time	15 ms max		
Mechanical life	1 million min		
TTL input	0-0.8 V(OFF), 2.4-5 V(ON)		
Termination power CW	0.5W		
Rated voltage	12	24	28 VDC
Operating current at 23 °C	300	167	160 mA



RF Specifications:

FREQUENCY RANGE(GHz)	DC-6	6-12	12-18	18-32	32-40
INSERTION LOSS (MAX) dB	0.3	0.4	0.5	0.8	1.3
ISOLATION (MIN) dB	70	60	60	55	50
V.S.W.R. (MAX)	1.3:1	1.4:1	1.5:1	1.9:1	2.1:1

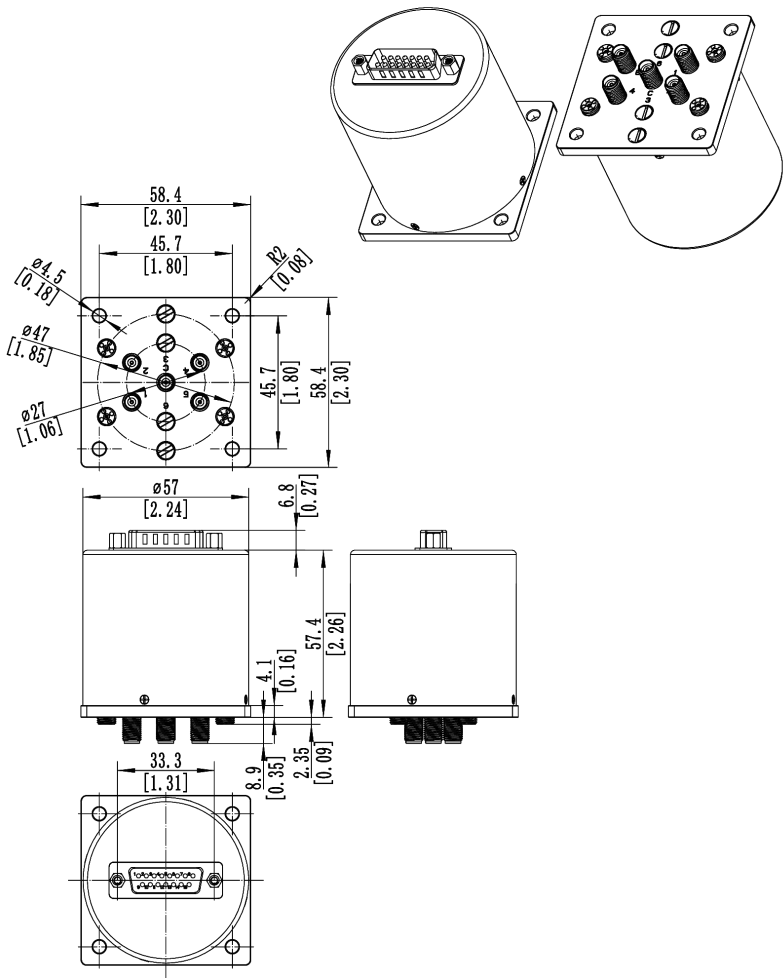
Envrionmental And Physical Characteristics:

Parameter	Condition
Operating temperature range	-25°C to +65°C(Standard) -55°C to +85°C(Optional)
Sine vibration(Operating)	20-2000Hz , 10G RMS
Shocks(Non Operating)	50g / 11msec, ½ sine
RF Connector type	2.92mm Female
Control connector	D-SUB 15Pin male
Weight	240g Max
Housing Color	Black

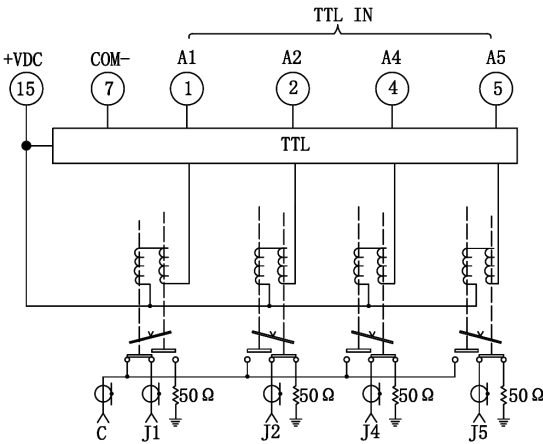
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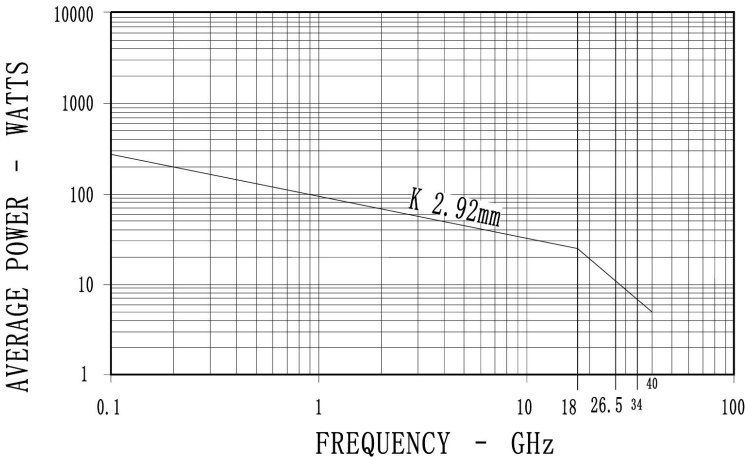
Outline Drawing: Unit: mm



Schematic:



Average power:



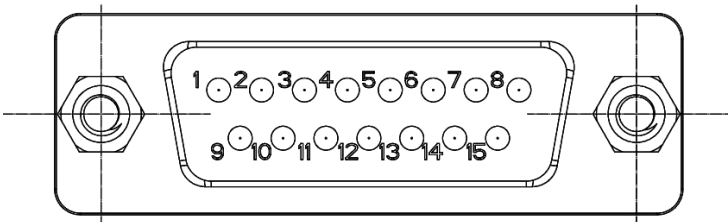
This graph is based on the following conditions:

- Ambient temperature: + 25 °C
- Sea level
- V.S.W.R.: 1 and cold switching

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Pin Definition:



15 PIN D-SUB		RF Connect Used
Pin NO.	Function	SP4T
1	A1(TTL IN)	1
2	A2(TTL IN)	2
3	UNUSED	
4	A4(TTL IN)	4
5	A5(TTL IN)	5
6	UNUSED	
7	COM-	
15	+VDC	
8-14	UNUSED	

Part Number:

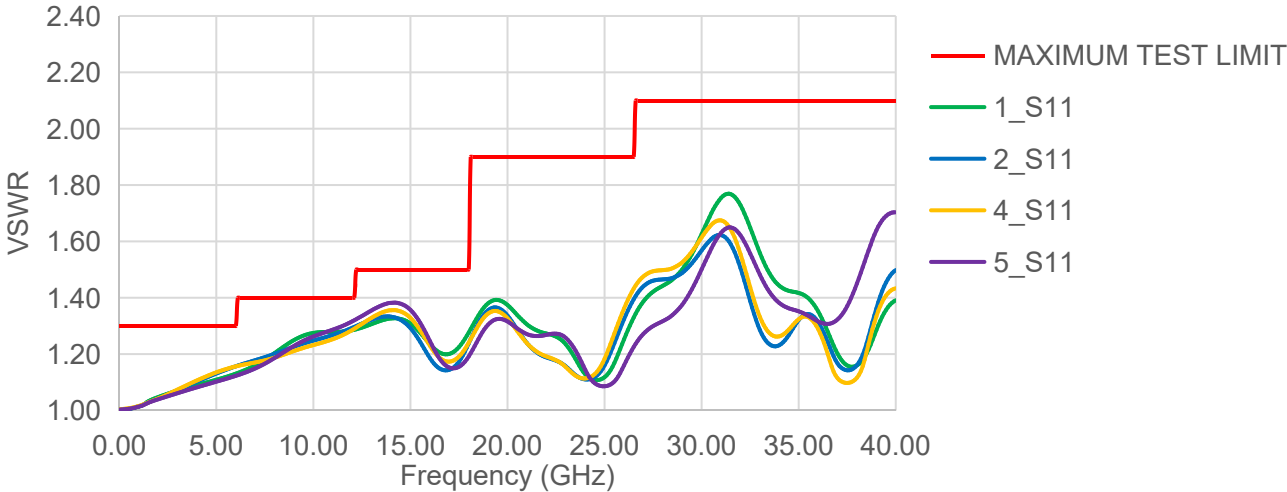
Part Number	Rated Voltage	Option
1P4T		
LF-SP4T-1240-DT	12VDC	
LF-SP4T-2440-DT	24VDC	
LF-SP4T-2840-DT	28VDC	

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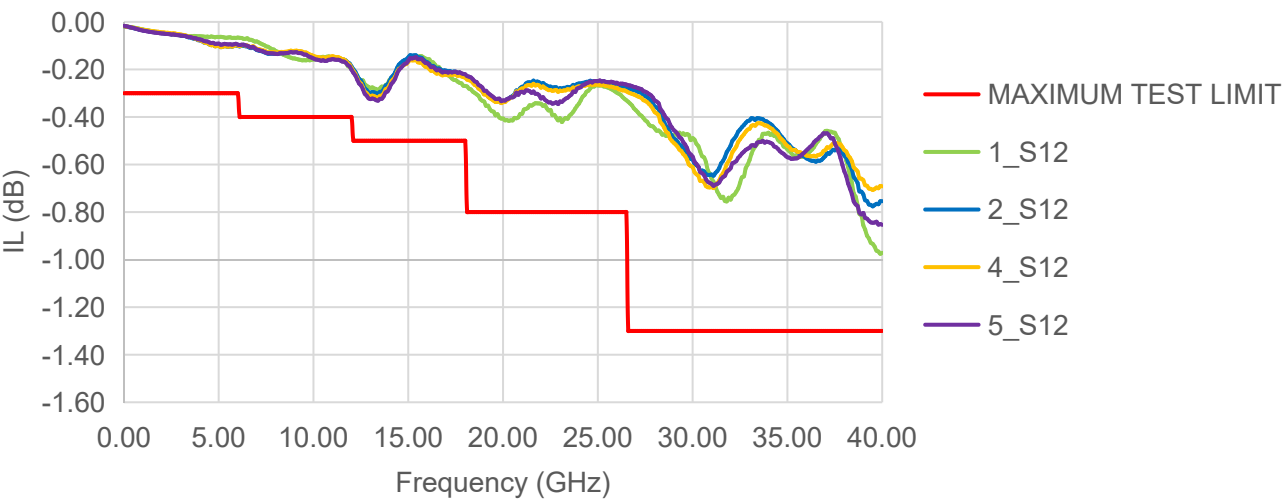


Typical Performance Data:

VSWR



INSERTION LOSS



ISOLATION

