

Model: TLSPDT0.05G50GA-45
**Absorption, Broadband MMIV Switch
 0.5-50 GHz, SPDT, 2.4mm**
Feature:

- Ultra Wide Band: 0.05-50 GHz
- Low Insertion Loss: 6.5 dB
- Power Handling : 23 dBm
- High Isolation
- Switch Type: Absorption

Electrical Specifications:

Parameter	Min	Typ	Max	Units
Frequency range	0.05-50			GHz
Insertion Loss		6.5	9.5	dB
Isolation	45	60		dB
Switch Speed		50	100	ns
Input VSWR		2.0	3.0	:1
Output VSWR		2.0	3.0	:1
Power Handling			23	dBm
DC Voltage		+5		V DC
DC Supply Current		20		mA
Impedance	50			Ohms

Mechanical Specifications:

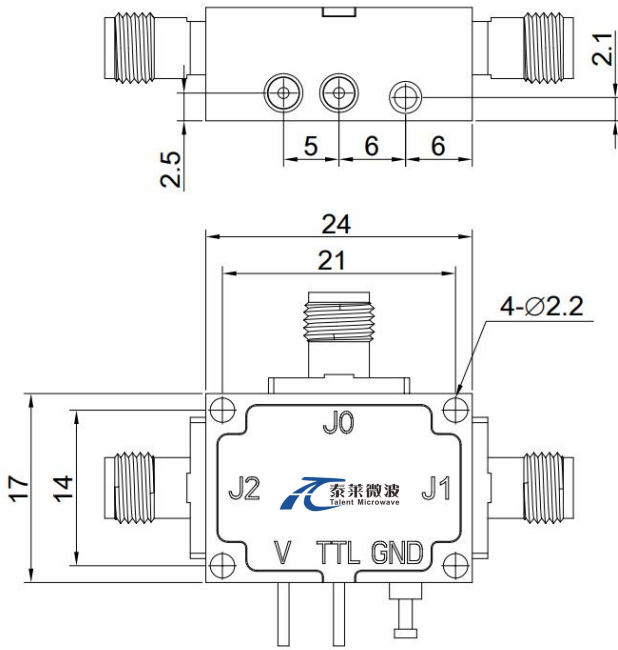
Parameter	Value	Units
Input /Output Connector	2.4mm Female	
Control Bias	Solder Pin	
Size	24*17*13	mm
Weight	-	g

Absolute Maximum Ratings:

Parameter	Value
Supply Bias Voltage	+/-5%
RF Input Power	23 dBm
ESD sensitivity (HBm)	Class 0, passed 150V

Outline Drawing:

Unit: mm



Truth Table	
TTL Control Input	Signal Path State
C1	
0	J0-J2
1	J0-J1
1: +5V 0:0V	

Environmental Conditions:



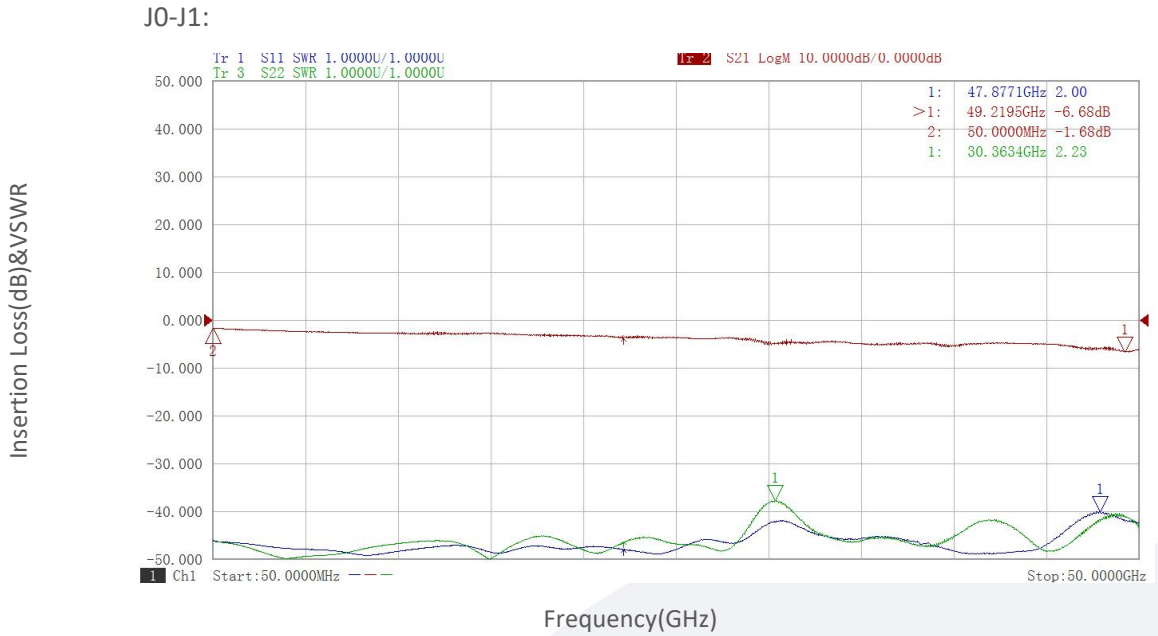
Parameter	Min	Typ	Max	Units
Operating Temperature	-20		+70	°C
Non-operating Temperature	-55		+125	°C
Relative humidity		95		%
Altitude	50,000			feet
Shock / Vibration(MIL-STD-810F)	25g rms (15 degree 2KHz) endurance, 1 hour per axis			
Shock(non operating)	20G for 11msc half sin wave,3 axis both directions			

Ordering Information:

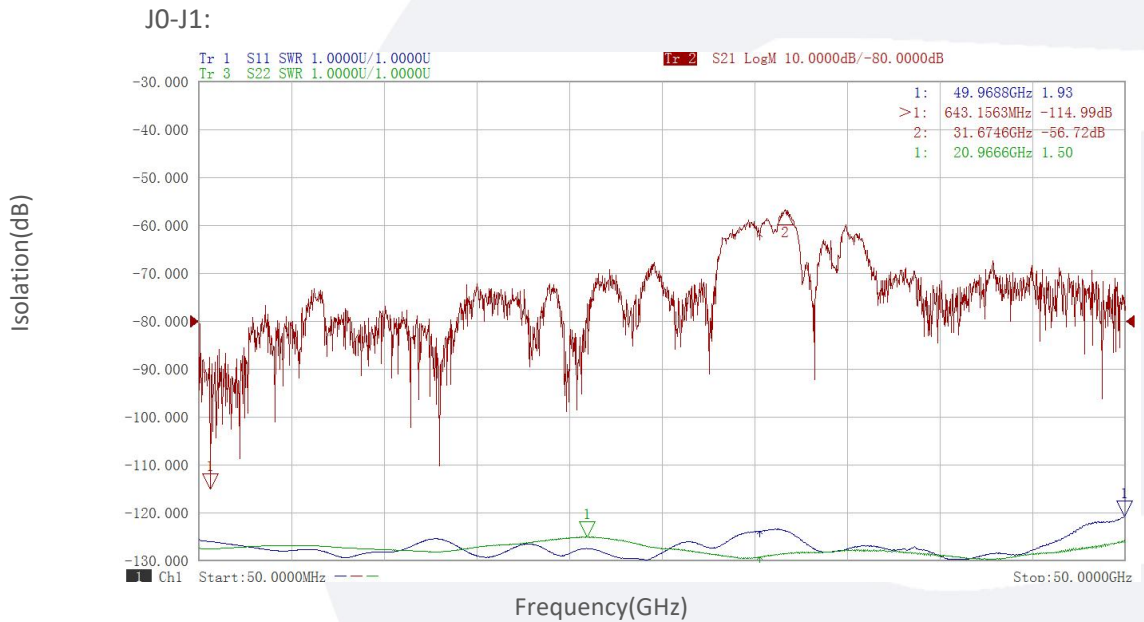
Part Number	Description	Revision
TLSPDT0.05G50GA-45	Absorption,Broadband MMIC Switch 0.05-50 GHz,SPDT,2.4mm Female	Rev.1.1

Typical Performance Data:

Insertion Loss&VSWR vs Frequency



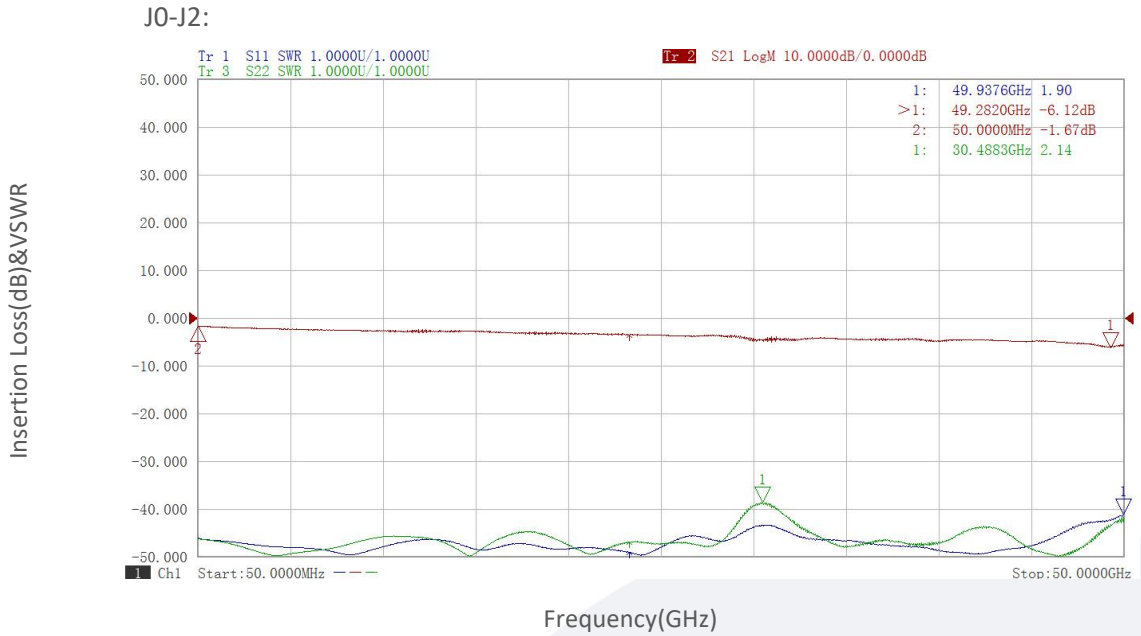
Isolation vs Frequency



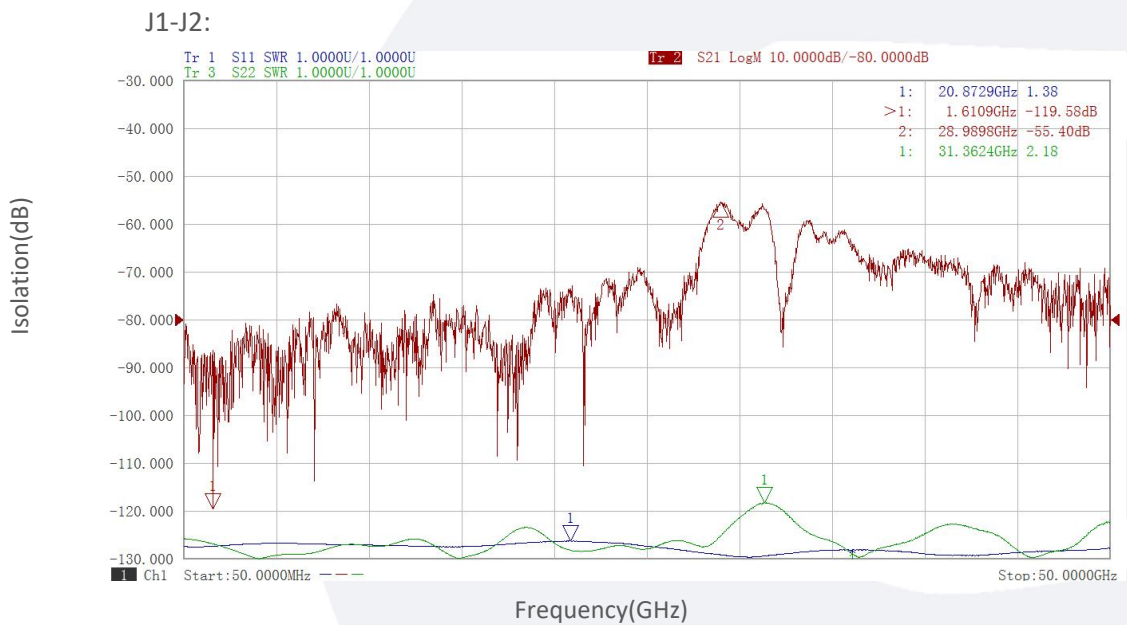
Note: Above data is for ref only, actual data may vary from unit to unit depending on operating environment and other factors like material lots etc.

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Insertion Loss&VSWR vs Frequency



Isolation vs Frequency



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