

Model:TLSPDT0.1G18GA

Absorption,Broadband GaAs MMIC Switch 0.1-18 GHz,SPDT,SMA

Feature:

- Ultra Wide Band: 0.1-18 GHz
- Low Insertion Loss: 2.5 dB Typ
- Power Handling : 27 dBm
- High Isolation
- Switch Type: Absorption

Electrical Specifications:

Parameter	Min	Typ	Max	Units
Frequency range	0.1-18			GHz
Insertion Loss		2.5	4.5	dB
Isolation		70		dB
Switch Speed		50	100	ns
Input VSWR		1.5		:1
Output VSWR		1.5		:1
Input RF Power			27	dBm
DC Voltage		+5		V DC
DC Supply Current		20		mA
Control Logic TTL	“0”=Low(0V) ; “1”=High(+5V)			V
Impedance	50			Ohms

Mechanical Specifications:

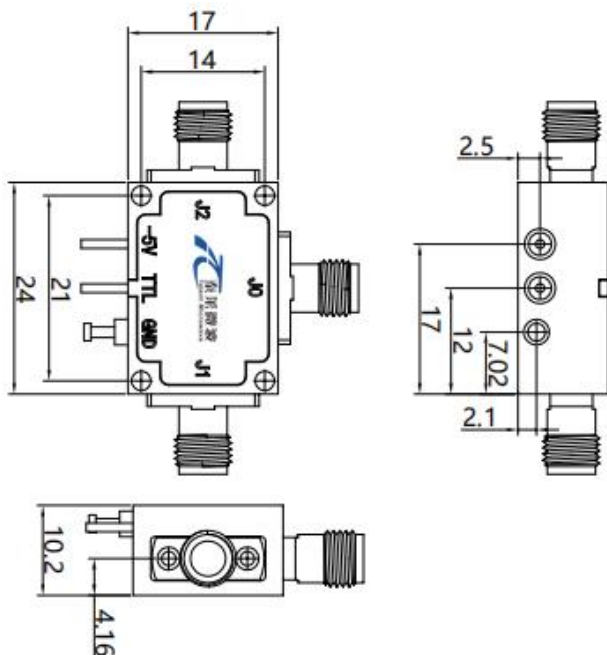
Parameter	Value	Units
Input /Output Connector	SMA Female	
Control Bias	Solder Pin	
Weight	≤200	g

Absolute Maximum Ratings:

Parameter	Value
Supply Bias Voltage	+5V±5%
RF Input Power	27 dBm
ESD sensitivity (HBm)	Class 0, passed 150V

Outline Drawing:

Unit: mm



Truth Table

TTL Control Input	Signal Path State
0	J0-J1
1	J0-J2



OBSERVE PRECAUTIONS
ELECTROSTATIC SENSITIVE
DEVICES

Environmental Conditions:

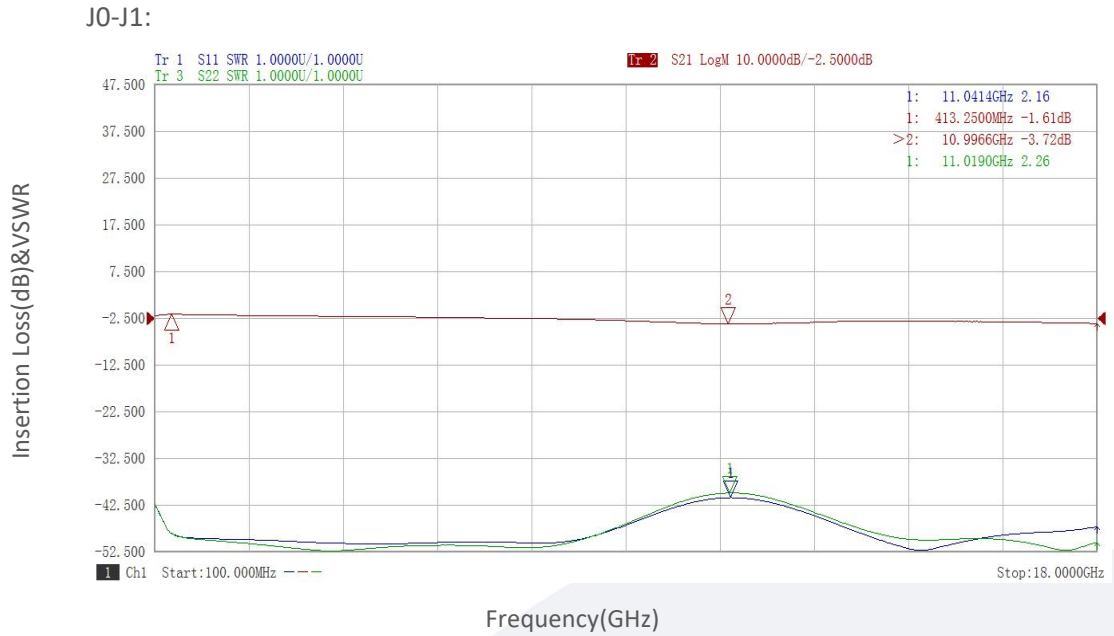
Parameter	Min	Typ	Max	Units
Operating Temperature	-25		+85	°C
Non-operating Temperature	-55		+125	°C
Relative humidity		95		%
Altitude	50,000			feet
Shock / Vibration(MIL-STD-810F)	25g rms (15 degree 2KHz) endurance, 1 hour per axis			
Shock(non operating)	20G for 11msc half sin wave,3 axis both directions			

Ordering Information:

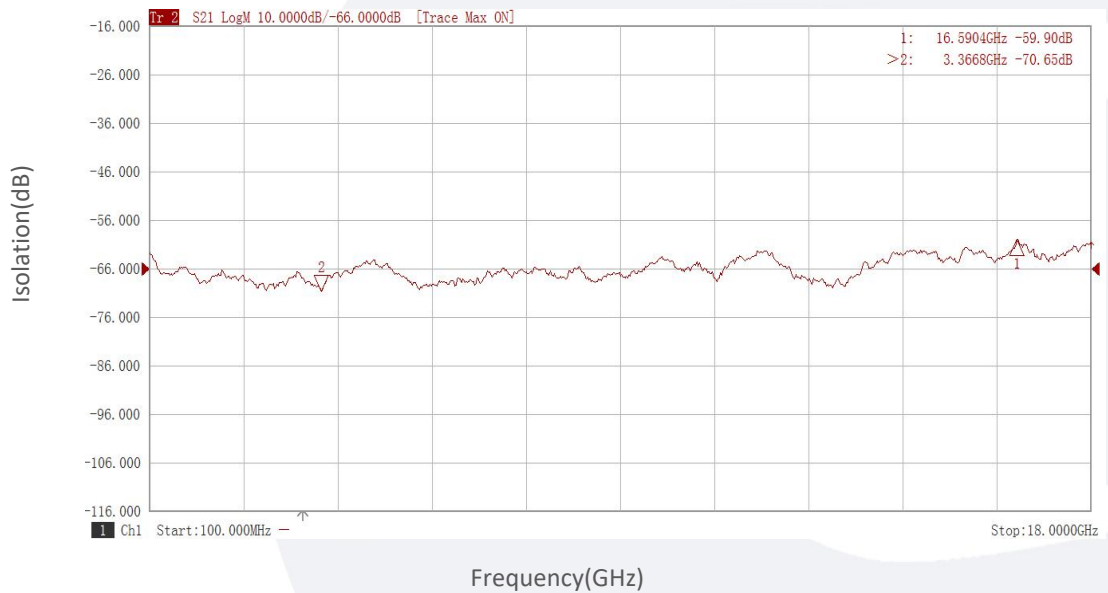
Part Number	Description	Revision
TLSPDT0.1G18GA	Absorption,Broadband GaAs MMIC Switch 0.1-18 GHz,SPDT,SMA	Rev.1.1

Typical Performance Data:

Insertion Loss&VSWR vs Frequency



Isolation vs Frequency



Typical Performance Data:

Insertion Loss&VSWR vs Frequency



Isolation vs Frequency

