

Absorptive, Broadband MMIC Switch 9K-8GHz/SPDT/ SMA Female/Phase matched

Model: TLSPDT9K8GA-PM-LAN

The TLSPDT9K8GA-PM-LAN is an absorptive MMIC switch that operates between 9K and 8 GHz. The SPDT switch offers 50 dB port-to-port isolation with a typical switching speed of 15ms. The input and output connectors of the switch are SMA female.

Features:

- Frequency range: 9K-8GHz
- Low Insertion Loss: 1.5 dB
- Power Handling : 27 dBm
- High Isolation
- Switch Type: Absorptive
- Phase Matched

Applications:

- Communication Systems
- Automatic Test Equipment
- Switching Network

Electrical Characteristics:

Parameter	Min	Typ	Max	Units
Frequency range	9KHz		8GHz	
Insertion Loss		1.5	2	dB
Isolation		50		dB
Switch Speed		15		ms
Input VSWR		1.5	2	:1
Output VSWR		1.5	2	:1
Power Handling			27	dBm
DC Voltage		5		V DC
DC Supply Current		500		mA
Switch type	Absorptive			
Impedance		50		Ohms

Absolute Maximum Ratings :

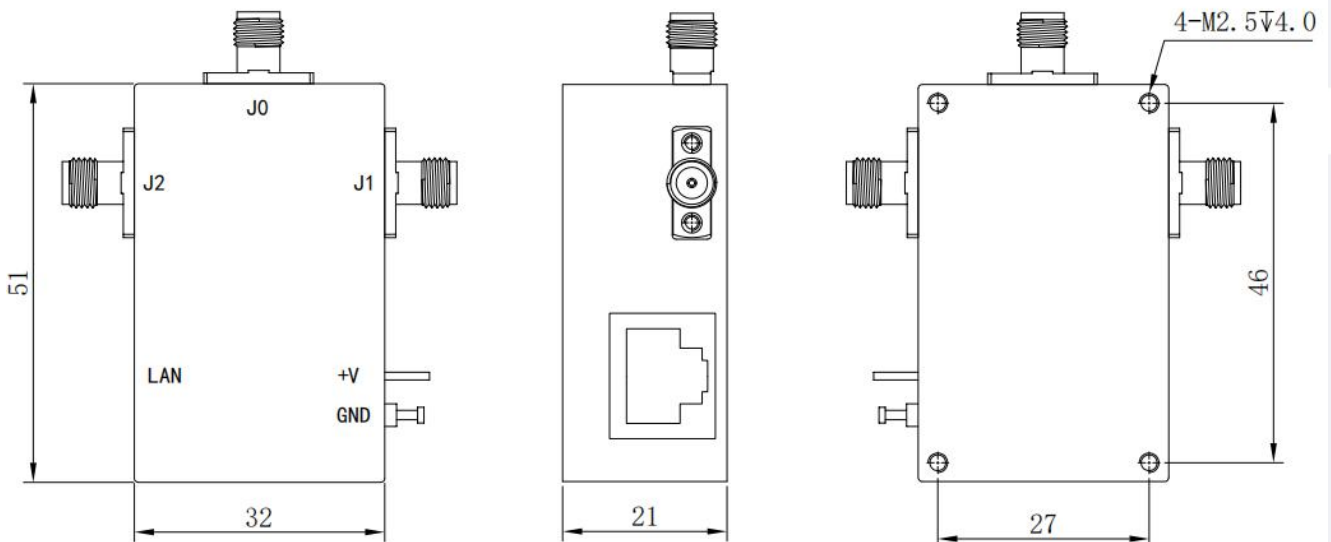
Description	Parameter	Units
Supply Bias Voltage	5±5%	V
RF Input Power	27	dBm
ESD sensitivity (HBm)	Class 0, passed 150V	

Mechanical Specifications:

Description	Parameter	Units
Input /Output Connector	SMA Female/SMA Female	
Power Supply interface	Solder Pin	
Control interface	RJ45	
Size	51*32*21	mm

Outline Drawing:

Unit:mm



ESD Protection: Strictly adhere to ESD precautions to prevent electrostatic damage.

Environmental Conditions:

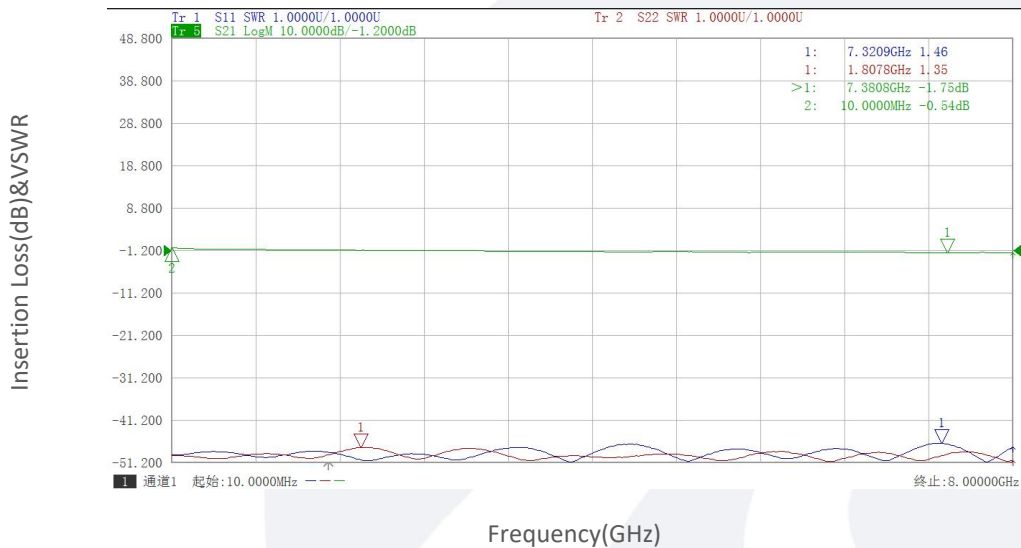
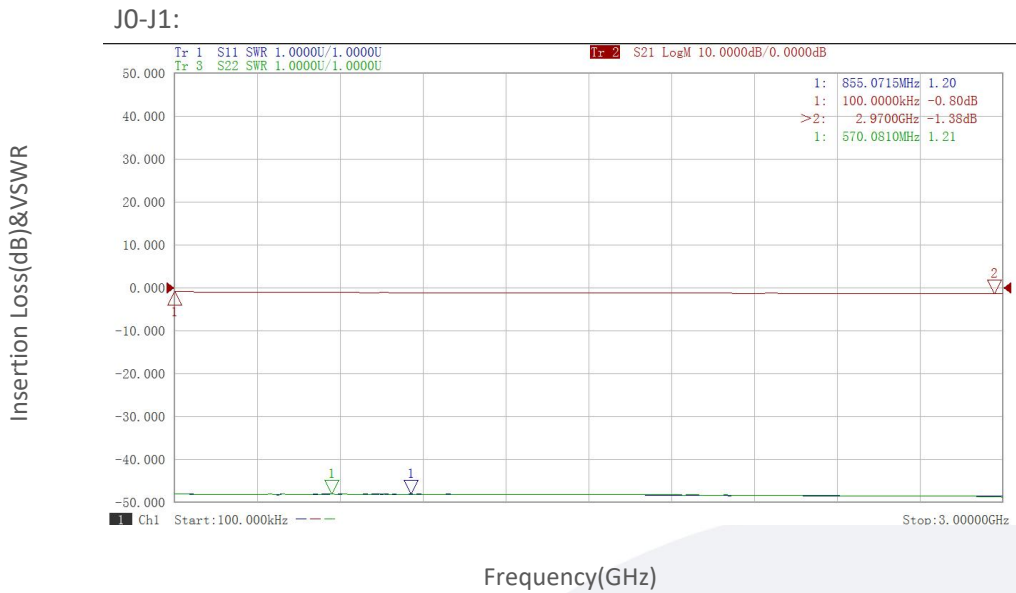
Parameter	Min	Typ	Max	Units
Operating Temperature	-10		+65	°C
Non-operating Temperature	-45		+85	°C
Relative humidity		95		%
Altitude	10,000			feet
Shock / Vibration(MIL-STD-810F)	25g rms (15 degree 2KHz) endurance, 1 hour per axis			
Shock(non operating)	20G for 11msc half sin wave,3 axis both directions			

Ordering Information:

Base Number	Description	Revision
TLSPDT9K8GA-PM-LAN	Absorptive,Broadband MMIC Switch 9KHz-8GHz,SPDT,SMA,LAN control	Rev.1.0

典型曲线 Typical Performance Data:

Insertion vs Frequency

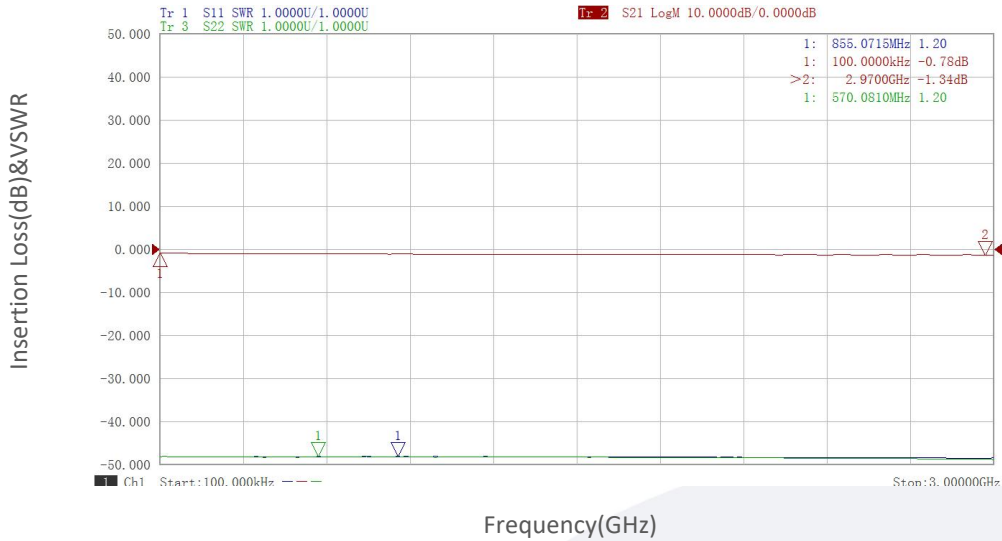


Note: Above data is for ref only, actual data may vary from unit to unit depending on operating environment and other factors like material lots etc.

典型曲线 Typical Performance Data:

Insertion vs Frequency

J0-J2:

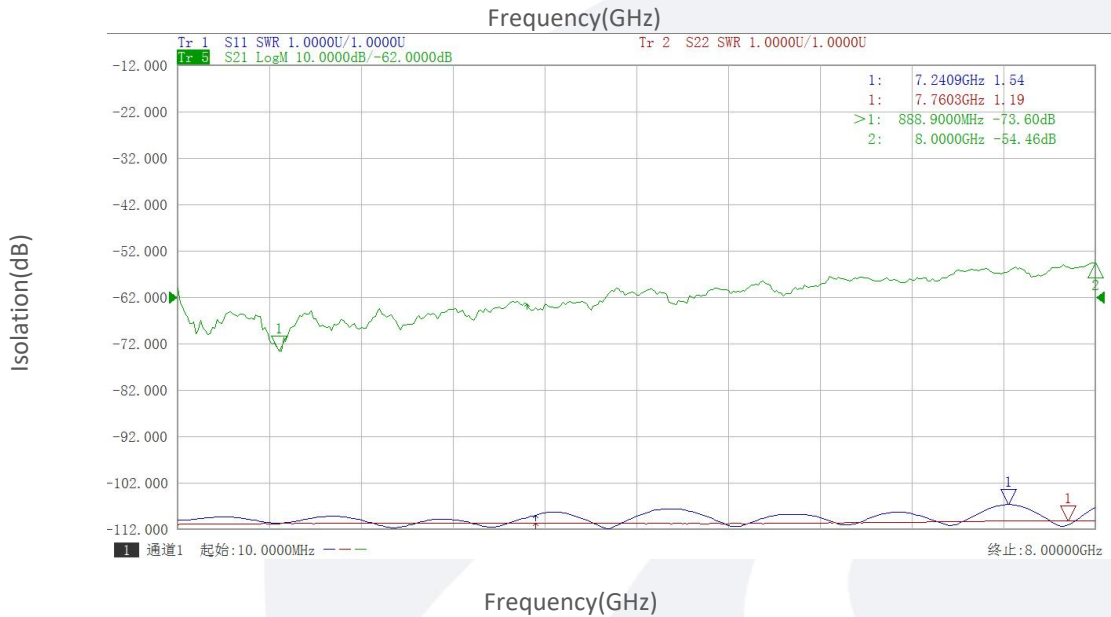
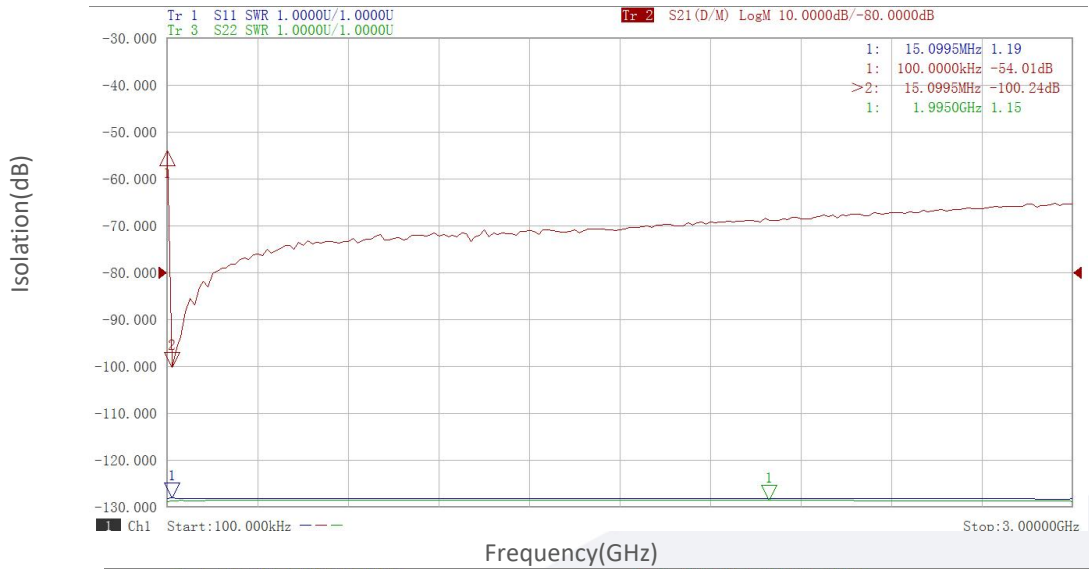


Note: Above data is for ref only, actual data may vary from unit to unit depending on operating environment and other factors like material lots etc.

典型曲线 Typical Performance Data:

Isolation vs Frequency

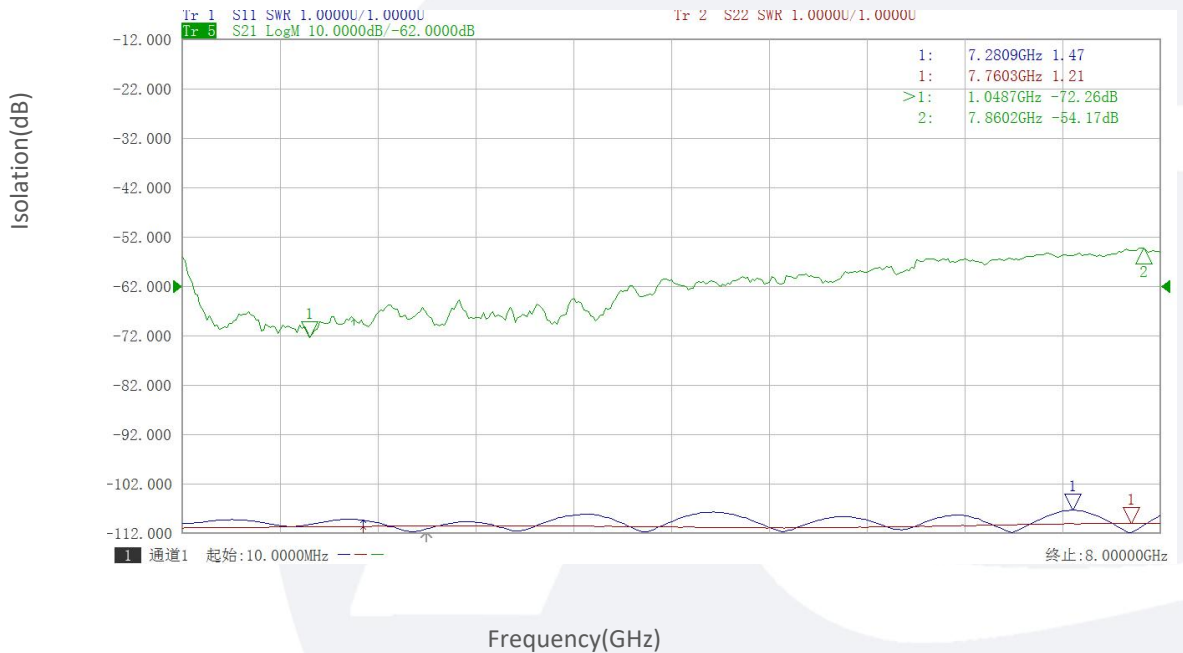
J0-J1:



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.

典型曲线 Typical Performance Data:

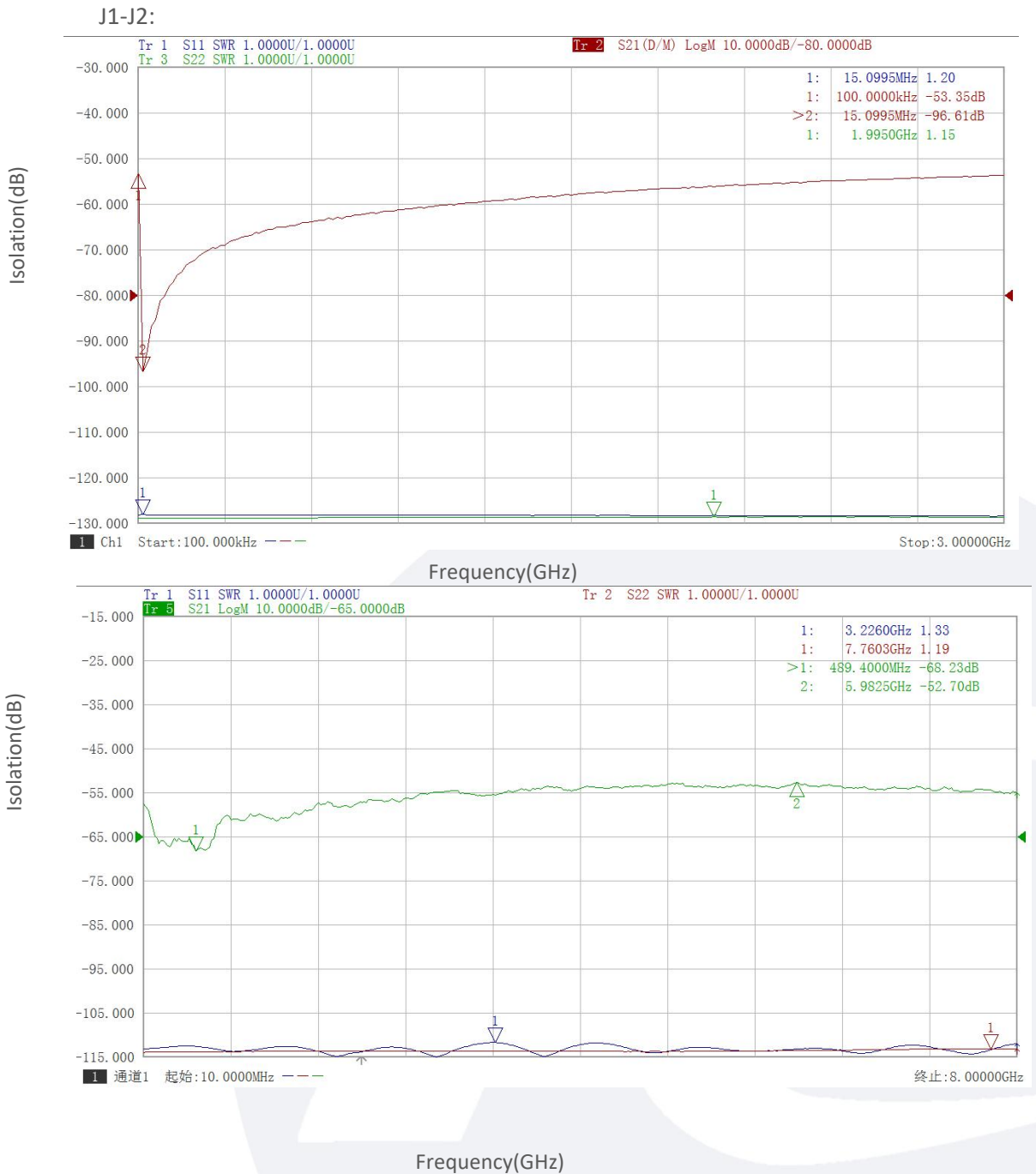
Isolation vs Frequency



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典型曲线 Typical Performance Data:

Isolation vs Frequency



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