

The TURSP2T9K8GA-PM is an absorptive MMIC switch with a TTL driver that operates between 9K and 8 GHz. The SP2T switch offers 50 dB port-to-port isolation with a typical switching speed of 50 ns. The input and output connectors of the switch are SMA female.

Features:

- Frequency range: 9KHz-8GHz
- Low Insertion Loss: 1.5 dB
- Power Handling : 30dBm
- High Isolation
- Switch Type: Absorptive
- Phase Matched

Applications:

- Communication Systems
- Automatic Test Equipment
- Switching Network

电气特性 Electrical Characteristics:

参数 Parameter	Min	Typ	Max	单位 Units
频率范围 Frequency range	9KHz-8GHz			
插损 Insertion Loss		1.5	2	dB
隔离 Isolation		50		dB
切换速度 Switch Speed		50	100	ns
输入驻波 Input VSWR		1.5	2	:1
输出驻波 Output VSWR		1.5	2	:1
幅度一致性 Amplitude Consistency			±0.5	dB
幅度稳定性 Amplitude Stability			±1	dB
耐功率 Power Handling			30	dBm
直流电压 DC Voltage		-5		V DC
直流电流 DC Supply Current		10		mA
开关类型 Switch type	Absorptive			

绝对最大值 Absolute Maximum Ratings :

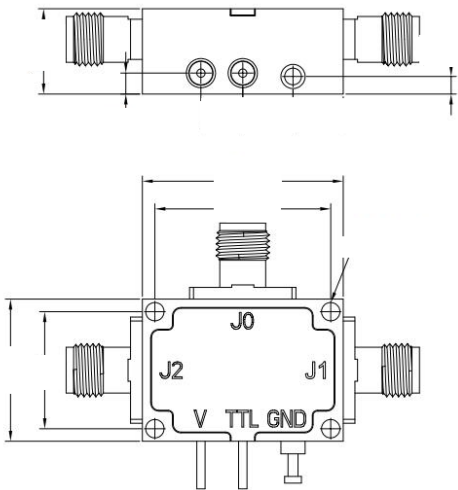
描述 Description	参数 Parameter	单位 Units
供电偏置电压 Supply Bias Voltage	±5%	V
射频输入功率 RF Input Power	30	dBm
ESD灵敏度 ESD sensitivity (HBm)	Class 0, passed 150V	

机械特性 Mechanical Specifications:

描述 Description	参数 Parameter	单位 Units
输入/输出接口 Input /Output Connector	SMA Female/SMA Female	
直流控制接口 Control Bias	Solder Pin	
尺寸 Size	24*17*10.2	mm

外形图 Outline Drawing:

Unit:mm



真值表 Truth Table	
TTL Control Input	Signal Path State
0	J0-J1
1	J0-J2

TTL Control Voltages &VDD	
Stage	Bias Condition
VDD	-5V (±5%)
Low (0)	0 to 0.8Vdc
High (1)	+3.3 to +5.0Vdc

1.Dimensions are in mm
2.Tolerances: Outline drawing ±0.2 [0.008] Hole ±0.2 [0.008]
NOTE: ALL SPECIFICATIONS ARE SUBJECT TO CHANGE WITHOUT NOTICE AT ANY TIME

温度环境 Environmental Conditions:

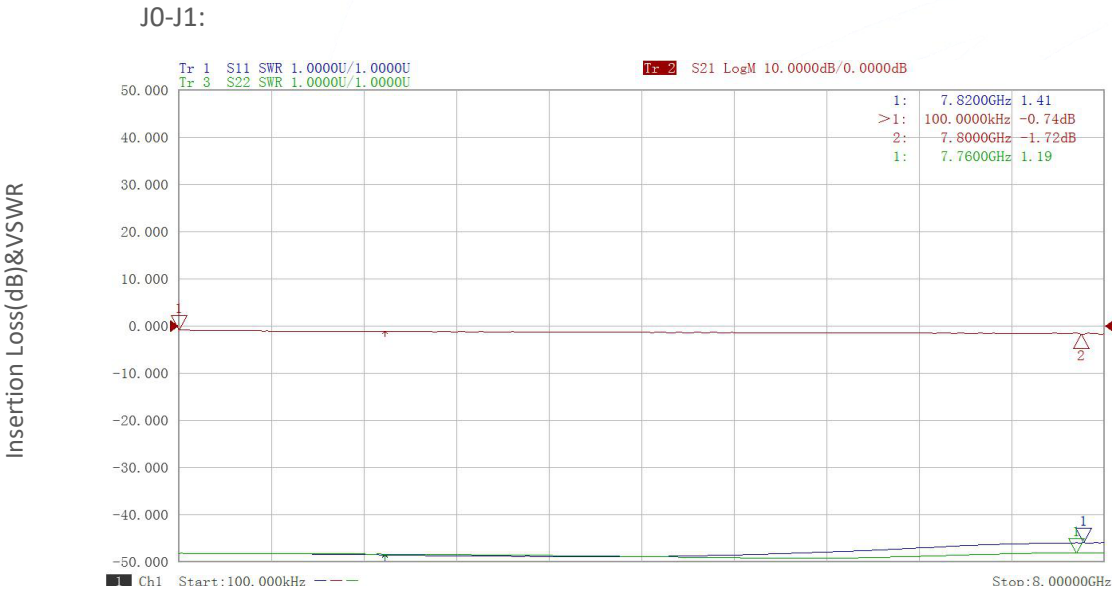
参数 Parameter	Min	Typ	Max	单位 Units
操作温度 Operating Temperature	-10		+65	℃
存储温度 Non-operating Temperature	-45		+85	℃
相对湿度 Relative humidity		95		%
海拔 Altitude	10,000			feet
震动 Shock / Vibration(MIL-STD-810F)	25g rms (15 degree 2KHz) endurance, 1 hour per axis			
冲击 Shock(non operating)	20G for 11msc half sin wave,3 axis both directions			

订货信息 Ordering Information:

标准型号 Base Number	描述 Desciption	版本号 Revision
TURSP2T9K8GA-PM	Absorptive,Broadband MMIC Switch 9KHz-8 GHz,SP2T,SMA	Rev.1.1

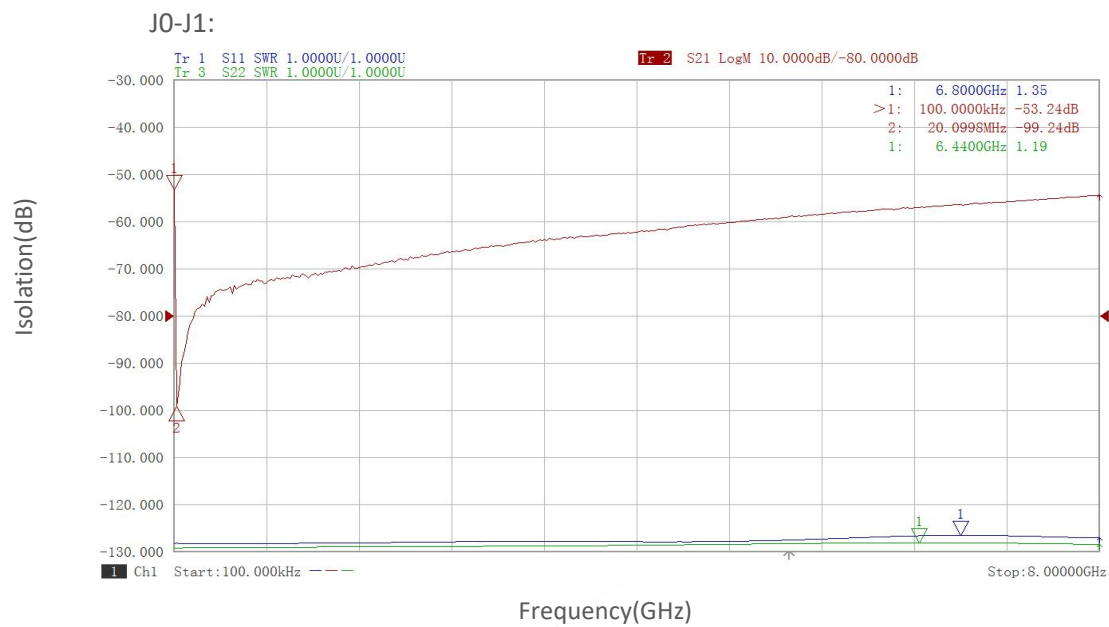
典型曲线 Typical Performance Data:

Insertion Loss&VSWR vs Frequency



典型曲线 Typical Performance Data:

Isolation vs Frequency



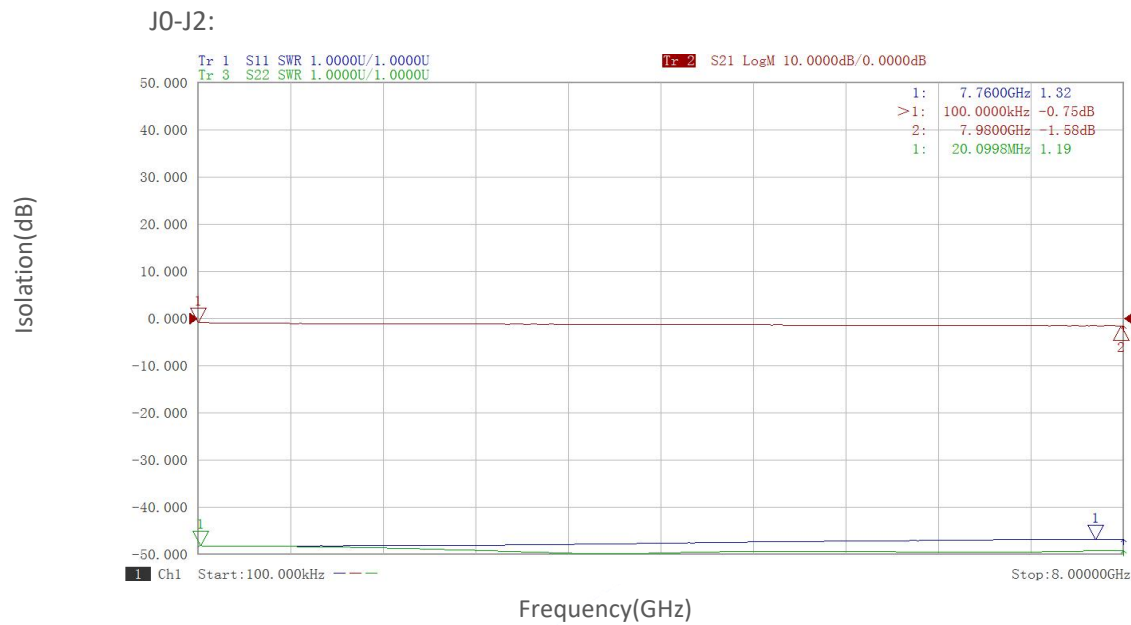
Insertion Loss&VSWR vs Frequency



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:

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.