

The TURSPDT0.5G40GA-2 is an absorptive PIN diode based switch with a TTL driver that operates between 0.5 and 40 GHz. The SPDT switch offers 75 dB port-to-port isolation with a typical switching speed of 60 ns. The input and output connectors of the switch are 2.92 mm female

Features:

- Frequency range: 0.5-40GHz
- Low Insertion Loss: 3.5 dB
- Power Handling : 23dBm
- 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	0.5-40			GHz
插损 Insertion Loss		3.5	6	dB
隔离 Isolation	50	75		dB
切换速度 Switch Speed		60		ns
输入驻波 Input VSWR		1.5	2.5	:1
输出驻波 Output VSWR		1.5	2.5	:1
耐功率 Power Handling			23	dBm
直流电压 DC Voltage		+/-5		V DC
控制电平 Control Logic TTL		0/+5		V DC
直流电流 DC Supply Current		30		mA
开关类型 Switch type	Absorptive			
阻抗 Impedance	50			Ohms

绝对最大值 Absolute Maximum Ratings :

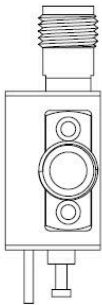
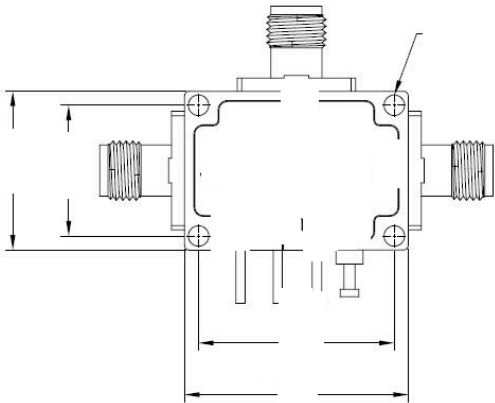
描述 Description	参数 Parameter	单位 Units
供电偏置电压 Supply Bias Voltage	±5%	V
射频输入功率 RF Input Power	23	dBm
ESD灵敏度 ESD sensitivity (HBm)	Class 0, passed 150V	

机械特性 Mechanical Specifications:

描述 Description	参数 Parameter	单位 Units
输入/输出接口 Input /Output Connector	2.92mm Female/2.92mm 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%)
VEE	-5V (± 5%)
Low (0)	0 to 0.8Vdc
High (1)	+3.3 to +5.0Vdc

1.Dimensions are in mm [inches]
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



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

温度环境 Environmental Conditions:

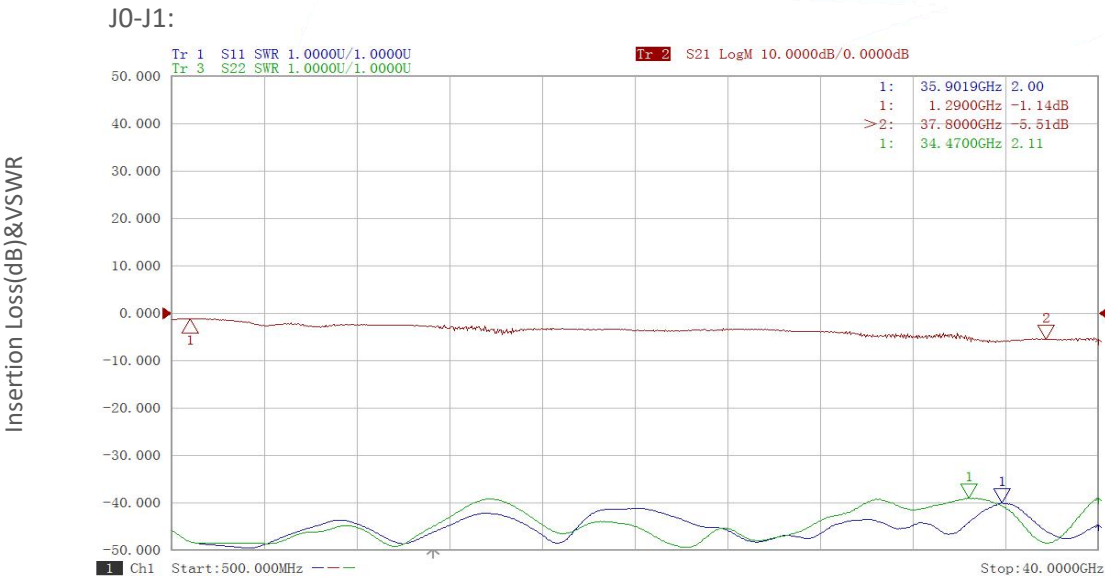
参数 Parameter	Min	Typ	Max	单位 Units
操作温度 Operating Temperature	-10		+65	℃
存储温度 Non-operating Temperature	-45		+85	℃
相对湿度 Relative humidity		95		%
海拔 Altitude	10,000			feet
震动 Shock / Vibration(MIL-STD-810F)	25g rms (15 degree 2KHz) endurance, 1 hour per axis			
冲击 Shock(non operating)	20G for 11msc half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

订货信息 Ordering Information:

标准型号 Base Number	描述 Description	版本号 Revision
TURSPDT0.5G40GA-2	Absorptive,Broadband PIN Switch 0.5-40 GHz,SPDT,2.92mm	Rev.1.1

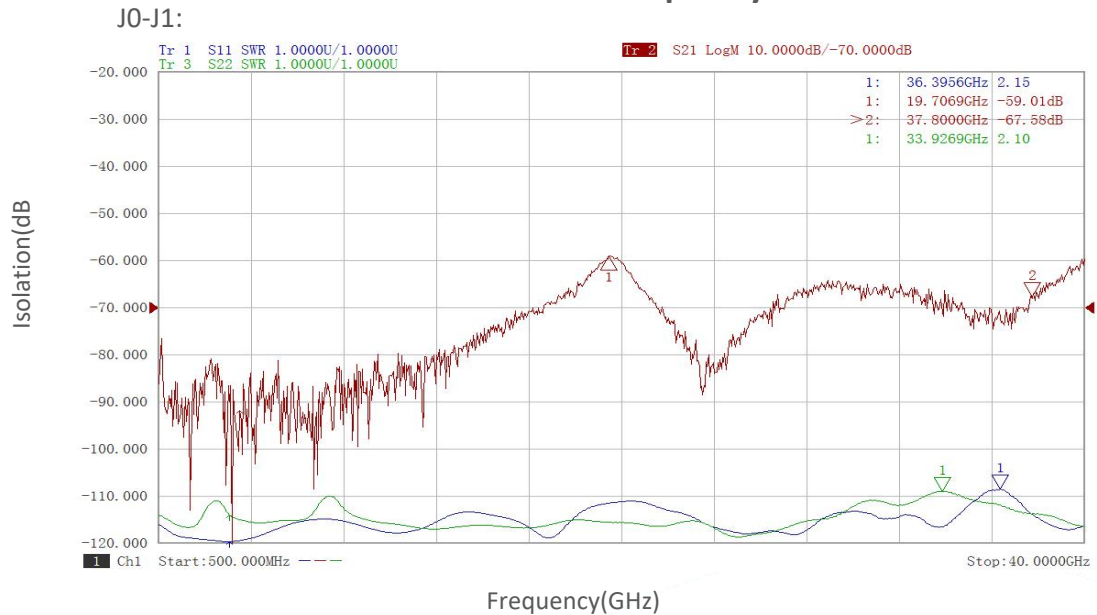
典型曲线 Typical Performance Data:

Insertion Loss & VSWR vs Frequency

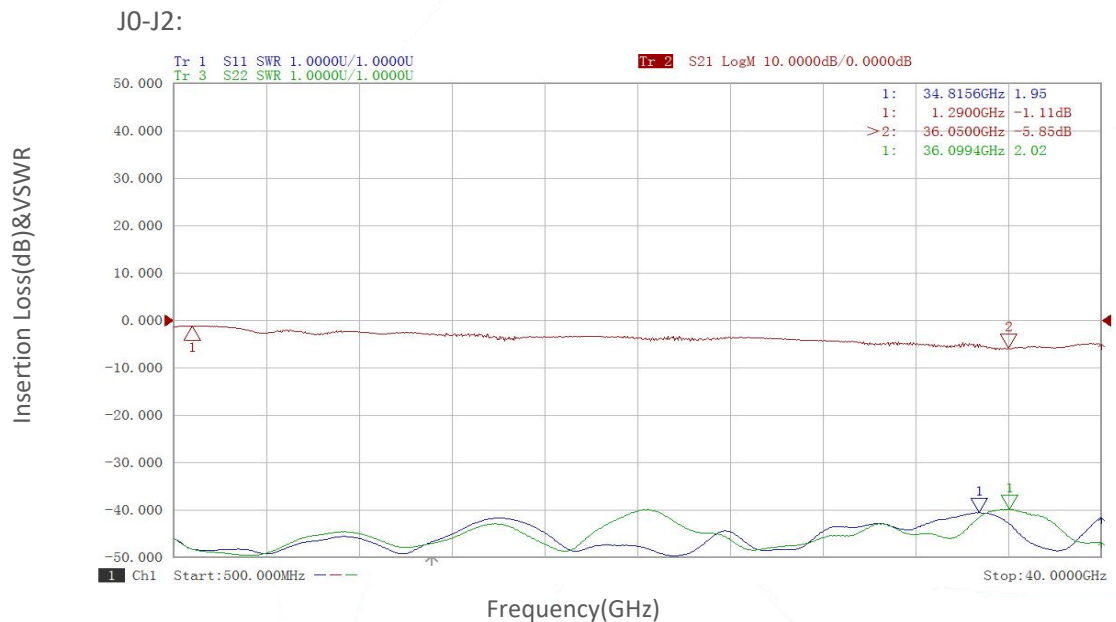


典型曲线 Typical Performance Data:

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:

