

Model: TLSP8T0.5G40GA-1
**Absorption, Broadband PIN Switch
 0.5-40GHz, SP8T, 2.92mm**
Feature:

- Ultra Wide Band: 0.5-40GHz
- Low Insertion Loss: 6.5 dB
- Power Handling : 23dBm
- High Isolation
- Switch Type: Absorption

电气特性 Electrical:

参数Parameter	Min.	Typ.	Max.	单位Units
频率范围 Frequency range	0.5-40			GHz
插损 Insertion Loss		6.5		dB
隔离 Isolation	50	52		dB
切换速度 Switch Speed		50	100	ns
输入驻波 Input VSWR		2.5		:1
输出驻波 Output VSWR		2.5		:1
耐功率 Power Handling			23	dBm
直流电压 DC Voltage		+/-5		V DC
直流电流 DC Supply Current		220/50		mA
控制逻辑电平 Control Logic TTL		0/+5		V
阻抗 Impedance	50			Ohms

机械特性 Mechanical :

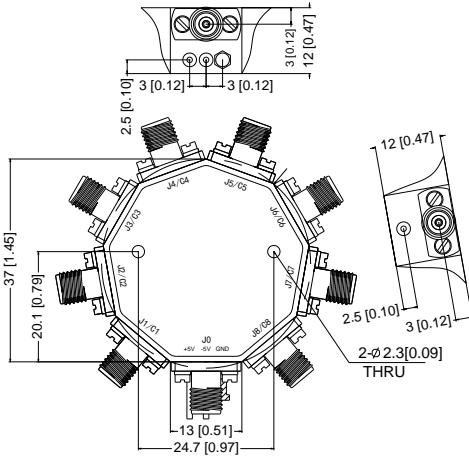
参数Parameter	指标 Value	单位Units
输入输出接口 Input /Output Connector	2.92mm Female	
直流控制接口 Control Bias	Welding pin	
尺寸 Size	-	mm
重量 Weight	TBD	g

绝对最大值 Absolute Maximum Ratings:

参数Parameter	指标 Value
供电偏置电压 Supply Bias Voltage	+/-10%
输入功率 RF Input Power	23 dBm
ESD灵敏度 ESD sensitivity (HBm)	Class 0, passed 150V

外形尺寸 Outline Drawing:

Unit: mm(Inches)



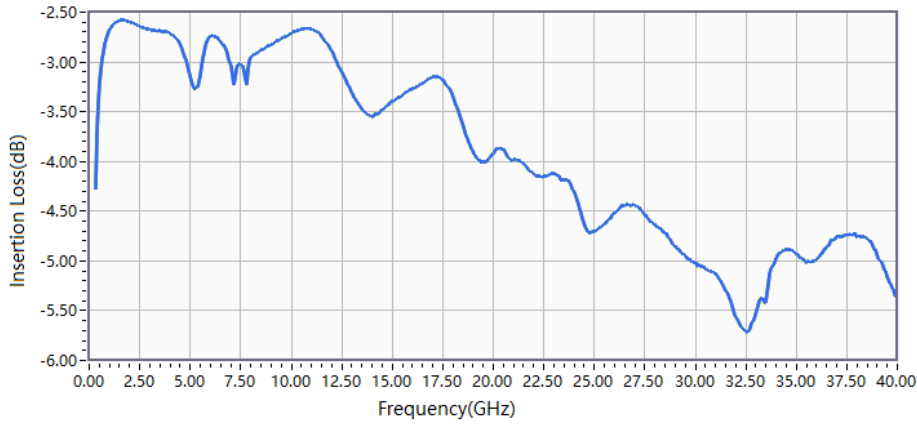

OBSERVE PRECAUTIONS
ELECTROSTATIC SENSITIVE
DEVICES

真值表 Truth Table								
TTL Control Input								Signal Path State
C8	C7	C6	C5	C4	C3	C2	C1	
1	1	1	1	1	1	1	0	J0-J1
1	1	1	1	1	1	0	1	J0-J2
1	1	1	1	1	0	1	1	J0-J3
1	1	1	1	0	1	1	1	J0-J4
1	1	1	0	1	1	1	1	J0-J5
1	1	0	1	1	1	1	1	J0-J6
1	0	1	1	1	1	1	1	J0-J7
0	1	1	1	1	1	1	1	J0-J8

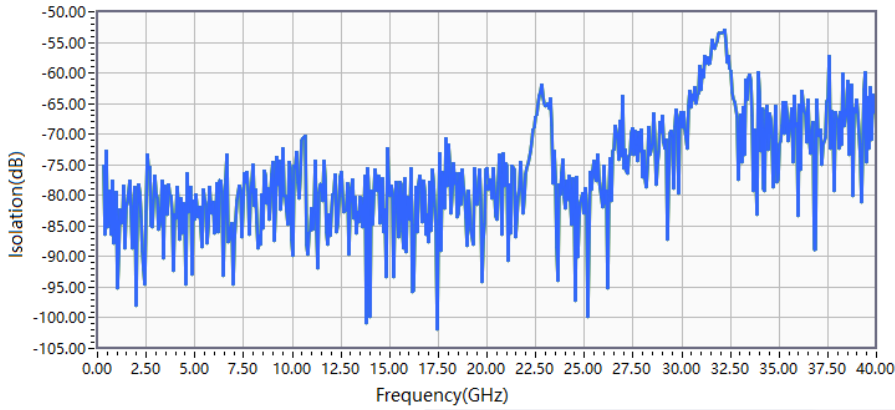
温度环境 Environmental Conditions:

参数Parameter	Min.	Typ.	Max.	单位Units
操作温度 Operating Temperature	-25		+85	°C
存储温度 Non-operating Temperature	-55		+125	°C
相对湿度 Relative humidity		95		%
海拔 Altitude	50,000			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			

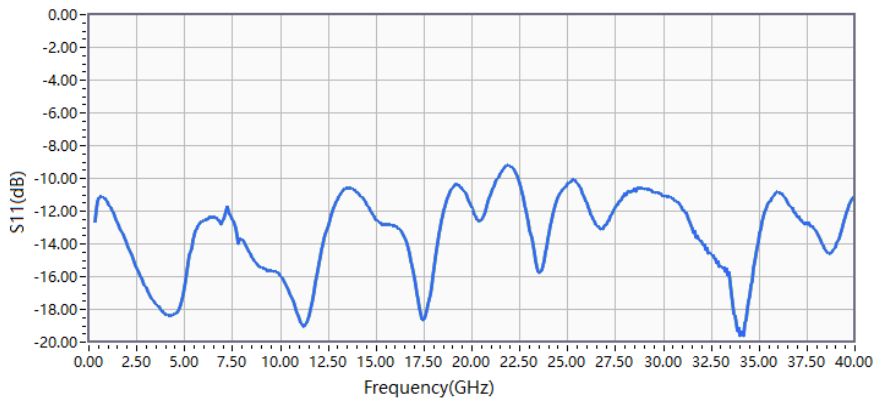
Insertion Loss vs. Frequency



Isolation vs. Frequency



S11 vs. Frequency



S22 vs. Frequency

