

**Model: TLSP4T0.02G18GA**
**Absorption, Broadband PIN Switch  
 0.2-18GHz, SP4T, SMA**
**Feature:**

- Ultra Broadband: 0.2-18 GHz
- Low Insertion Loss: 4.0 dB
- Power Handling : 30 dBm
- High Isolation
- Switch Type: Absorption

**电气特性 Electrocal Specification:**

参数Parameter	Min.	Typ.	Max.	Units
频率范围 Frequency range	0.2-18			GHz
隔离 Isolation	60	65		dB
插损 Insertion Loss		4.0	7.0	dB
输入驻波 Input VSWR		1.5	1.8	:1
输出驻波 Output VSWR		1.5	1.8	:1
切换速度 Switch Speed		100		ns
最大输入功率 RF Input Power			30	dBm
直流电压 DC Voltage	+5/-5			V DC
直流电流 DC Supply Current		160/50		mA
阻抗 Impedance	50			Ohms

**机械特性 Mechanical Specification:**

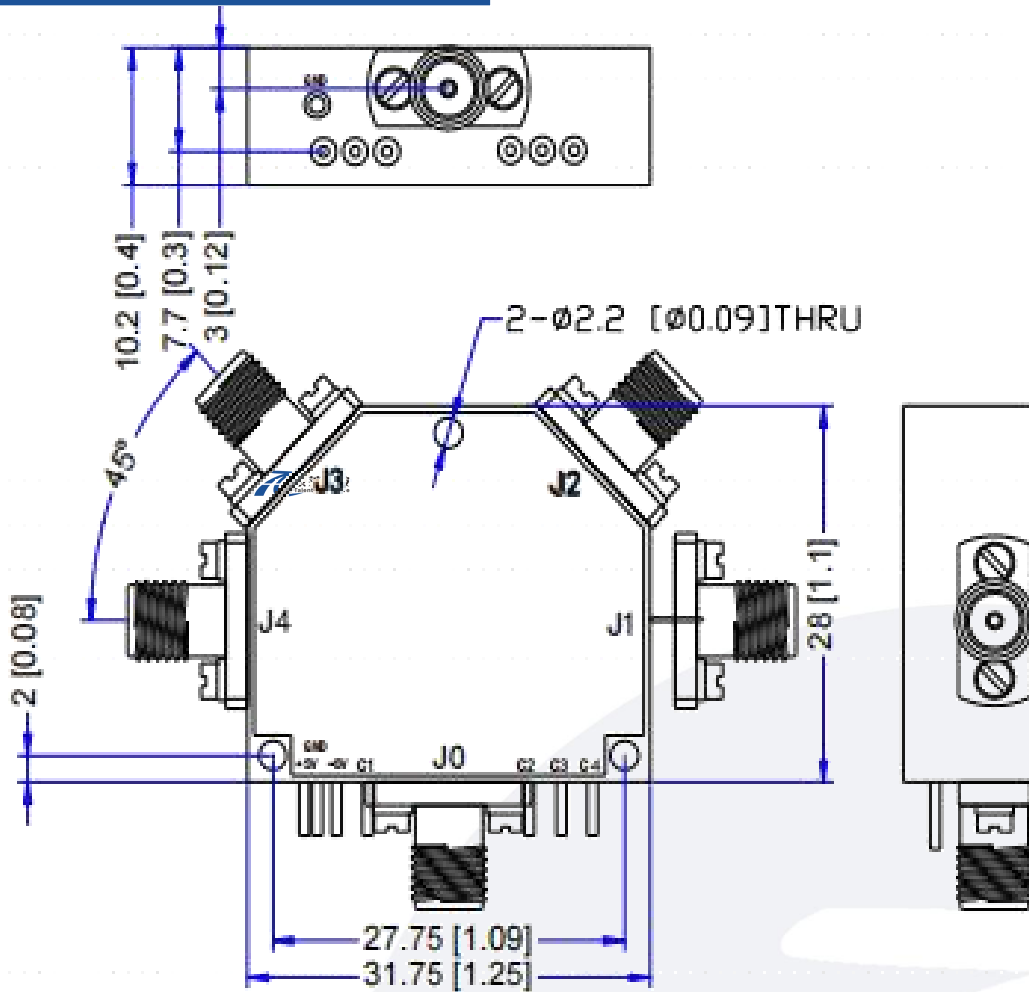
参数Parameter	Specification	Units
输入输出接口 Input /Output Connector	SMA-Female	
直流偏置 Bias	Solder Pin	
尺寸 Size	31.75*28*10.2	mm
重量 Weight	TBD	g

**绝对最大值 Absolute Maximum Ratings :**

参数Parameter	指标 Value
供电偏置电压 Supply Bias Voltage	+/-5%
输入功率 RF Input Power	30 dBm
ESD灵敏度 ESD sensitivity (HBm)	Class 0, passed 150V

外形尺寸 Outline Drawing:

Unit: mm(inches)



Truth Table

TTL Control Input				Signal Path State
C4	C3	C2	C1	
1	1	1	1	OFF
1	1	1	0	J0-J1
1	1	0	1	J0-J2
1	0	1	1	J0-J3
0	1	1	1	J0-J4

**温度环境 Environmental Conditions:**

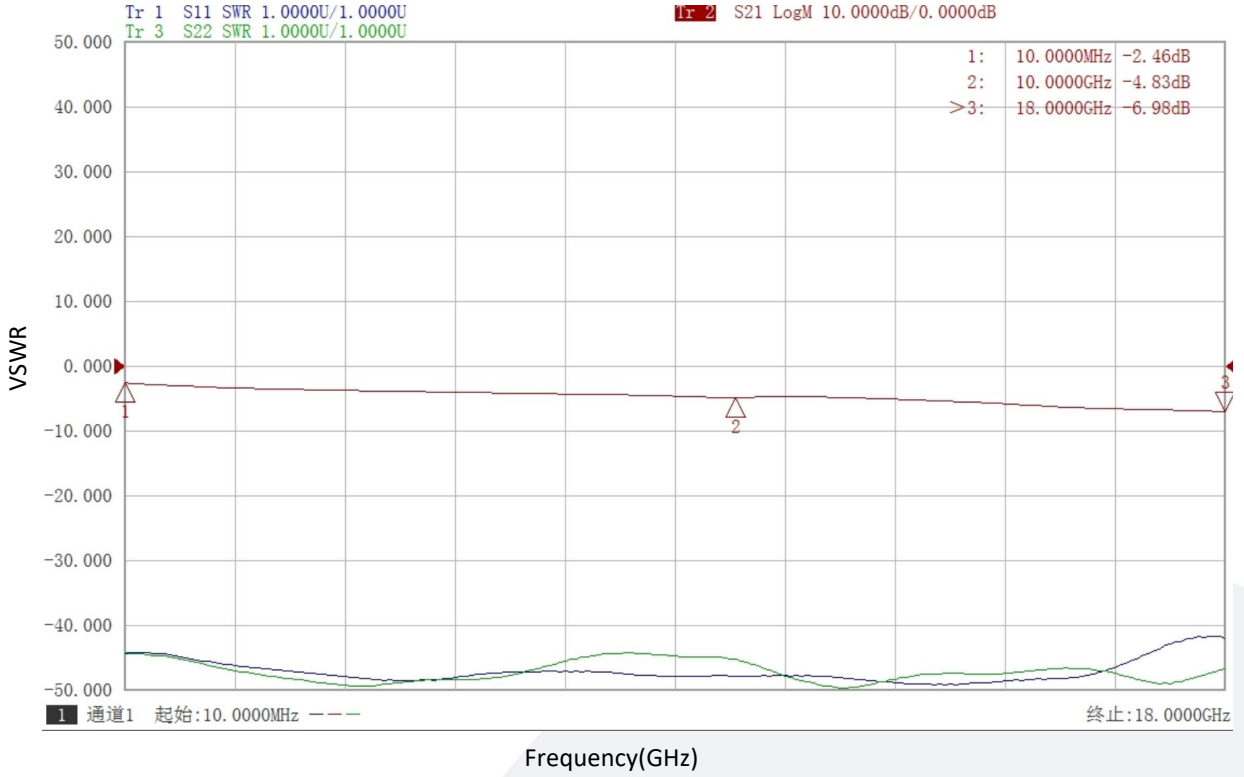
参数Parameter	Min.	Typ.	Max.	Units
操作温度 Operating Temperature	-20		+70	°C
存储温度 Non-operating Temperature	-55		+125	°C
相对湿度 Relative humidity		95		%
海拔 Altitude	50000			feet
震动 Shock / Vibration(MIL-STD-810F)	25g rms (15 degree 2KHz) endurance, 1 hour per axis			
冲击 Shock(non operating)	20G for 11msec half sine wave,3 axis both directions			

**订货信息 Ordering Information:**

标准型号 Part Number	描述 Description	版本号Revision
TLSP4T0.2G18GA	Absorption,Broadband PIN Switch 0.2-18GHz,SP4T,SMA Female	Rev.1.1

典型曲线 Typical Performance Data:

VSWR vs.Frequency



Frequency(GHz)