泰莱微波
Talent Microwave

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Model: TLSP4T1G20GA-80dB

Absorption,Broadband PIN Switch,1-20GHz,

Feature:

- Ultra Broadband: 1-20 GHz
- Low Insertion Loss: 3.5 dB
- Power Handling : 30 dBm
- High Isolation
- Switch Type: Absorption

电气特性 Electrocal:

参数Parameter	Min.	Typ.	Max.	Units
频率范围 Frequency range	1-20			GHz
隔离 Isolation	80			dB
插损 Insertion Loss		3.5	4.0	dB
输入驻波 Input VSWR		1.8	2.2	:1
输出驻波 Output VSWR		1.8	2.2	: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			V DC
控制逻辑 TTL	0/+5			V
直流电流 DC Supply Current	150/-50			mA
阻抗 Impedance	50			Ohms

机械特性 Mechanical :

参数Parameter	Specification	Units
输入输出接口 Input /Output Connector	SMA-Female	
直流偏置 Bias	Solder Pin	
重量 Weight	50	g

绝对最大值Absolute Maximum Ratings :

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

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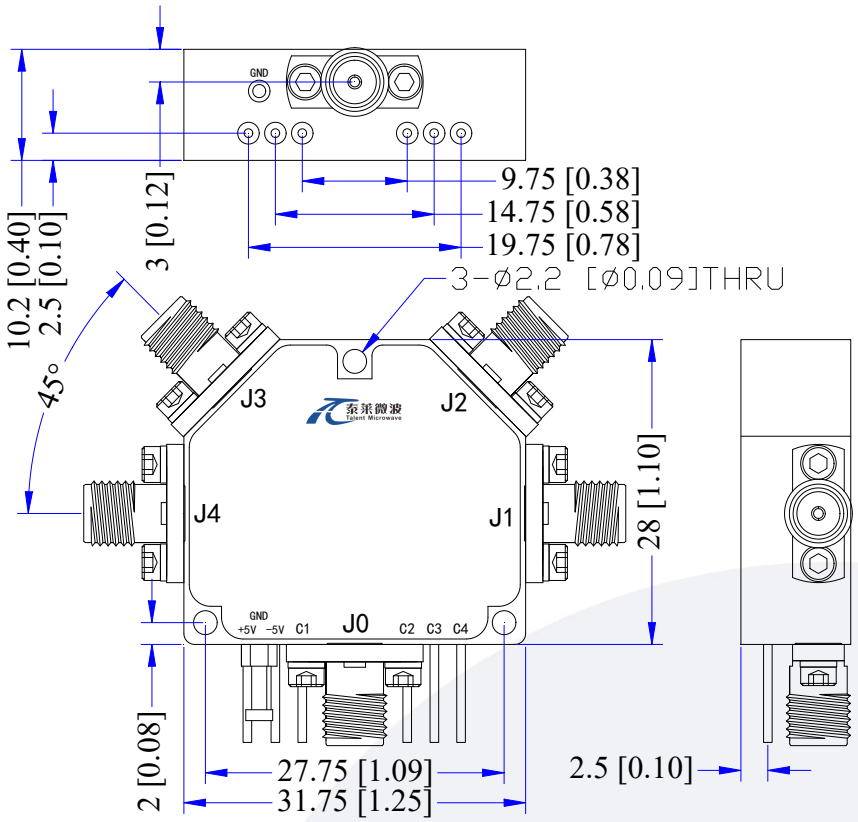
外形尺寸Outline Drawing:

Unit: mm(inches)



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

TTL Control Voltages &VDD	
Stage	**Bias Condition**
VDD	+5V (±5%)
VEE	-5V (±5%)
Low(0)	0 to 0.8Vdc
High(1)	2.0 to +5.0Vdc

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温度环境 Environmental Conditions:

参数Parameter	Min.	Typ.	Max.	Units
操作温度 Operating Temperature	-25		+85	℃
存储温度 Non-operating Temperature	-55		+125	℃
相对湿度 Relative humidity	100% RH at 35ºc, 95%RH at 40ºc			%
海拔 Altitude	30,000 ft. (Epoxy Sealed Controlled environment)			feet
	60,000 ft. 1.0psi min (Hermetically Sealed Un-controlled environment)(Optional)			
震动 Shock / Vibration(MIL-STD-810F)	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
TLSP4T1G20GA-80dB	Absorption,Broadband PIN Switch 1-20GHz,SP4T,SMA Female	Rev.1.1