

Model: TLSP4T0.1G18GA
**Absorption, Broadband FET Switch
 0.1-18 GHz, SP4T, SMA**
Feature:

- Ultra Wide Band: 0.1-18 GHz
- Low Insertion Loss: 3.5 dB
- Power Handling : 30 dBm
- High Isolation
- Switch Type: Absorption

电气特性 Electrical Specifications:

参数 Parameter	Min	Typ	Max	单位 Units
频率范围 Frequency range	0.1-18			GHz
插损 Insertion Loss		3.5		dB
隔离 Isolation		65		dB
切换速度 Switch Speed		100		ns
输入驻波 Input VSWR		2.0		:1
输出驻波 Output VSWR		2.0		:1
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
阻抗 Impedance	50			Ohms

机械特性 Mechanical Specifications:

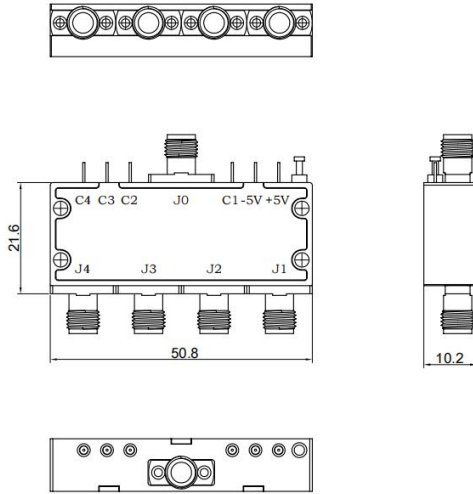
参数 Parameter	指标 Value	单位 Units
输入输出接口 Input /Output Connector	SMA Female	
直流控制接口 Control Bias	Solder Pin	
尺寸 Size	50.8*30*10.2	mm
重量 Weight	-	g

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)



真值表 Truth Table				
TTL Control Input				Signal Path State
C4	C3	C2	C1	
0	0	0	1	J0-J1
0	0	1	0	J0-J2
0	1	0	0	J0-J3
1	0	0	0	J0-J4
1: +3.3V/+5V 0:0V				

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
3. +5V CAN BE NOT CONNECTED



温度环境 Environmental Conditions:

参数 Parameter	Min	Typ	Max	单位 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	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			

订货信息 Ordering Information:

标准型号 Part Number	描述 Description	版本号 Revision
TLSP4T0.1G18GA	Absorption, Broadband PIN Switch 0.1-18 GHz, SP4T, SMA	Rev.1.1