

Model: TLSP4T0.01G40GA
**Absorption, Broadband GaAs MMIC Switch
 0.01-40GHz, SP4T, 2.92mm**
Feature:

- Ultra Wide Band: 0.01-40 GHz
- Low Insertion Loss: 6.5dB
- Power Handling : 25dBm
- 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	0.01-40			GHz
插损 Insertion Loss		6.5	7.5	dB
隔离 Isolation	50	65		dB
切换速度 Switch Speed		50	100	ns
输入驻波 Input VSWR		1.8	2.0	:1
输出驻波 Output VSWR		1.8	2.0	:1
最大输入功率 RF Input Power			25	dBm
直流电压 DC Voltage		-5		V DC
直流电流 DC Supply Current			100	mA
阻抗 Impedance	50			Ohms

机械特性 Mechanical :

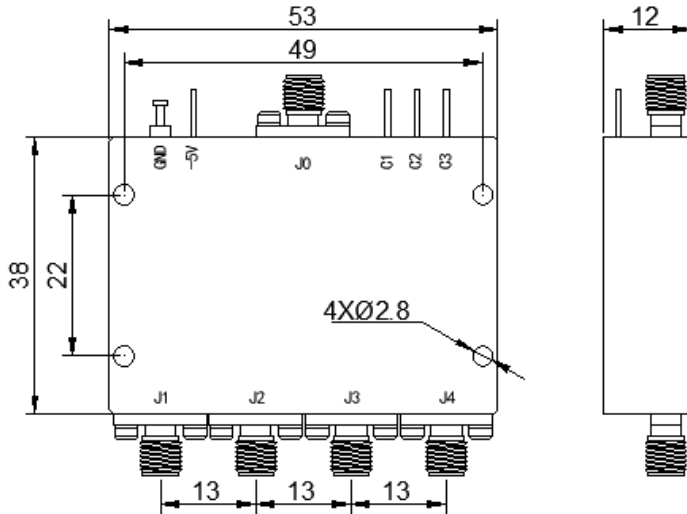
参数Parameter	指标 Value	单位Units
输入输出接口 Input /Output Connector	2.92mm Female	
直流控制接口 Control Bias	Solder Pin	
尺寸 Size	53*38*12	mm
重量 Weight	100	g

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	23 dBm
ESD灵敏度 ESD sensitivity (HBm)	Class 0, passed 150V

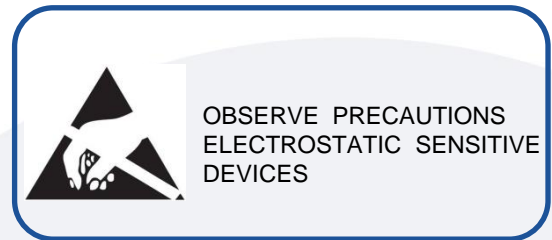
外形尺寸 Outline Drawing:

Unit: mm



真值表 Truth Table

TTL Control Input			Signal Path State
C1	C2	C3	
+5V	+5V	+5V	J0-J1
+5V	0	0	J0-J2
0	+5V	+5V	J0-J3
0	0	0	J0-J4



温度环境 Environmental Conditions:

参数Parameter	Min.	Typ.	Max.	单位Units
操作温度 Operating Temperature	-45		+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			

订货信息 Ordering Information:

标准型号 Part Number	描述 Description	版本号Revision
TLSP4T0.01G40GA	Absorption,Broadband PIN Switch(0.01-40GHz,SP4T,2.92mm)	Rev.1.1