

**Model: TLSP12T10M8GA**
**Absorption, Broadband PIN Switch  
 10M-8GHz, SP12T, SMA**
**Feature:**

- Ultra Wide Band: 10M-8GHz
- Low Insertion Loss: 5dB Typ
- Power Handling : 27dBm
- 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	0.01-8			GHz
插损 Insertion Loss		5		dB
隔离 Isolation		55		dB
切换速度 Switch Speed		100		ns
输入驻波 Input VSWR		1.8		:1
输出驻波 Output VSWR		1.8		:1
最大输入功率 RF Input Power			27	dBm
直流电压 DC Voltage		+5/-5		V DC
直流电流 DC Supply Current		40		mA
控制 Control Logic TTL	"0"=Low ; "1"=High			V
阻抗 Impedance	50			Ohms

**机械特性 Mechanical Specifications:**

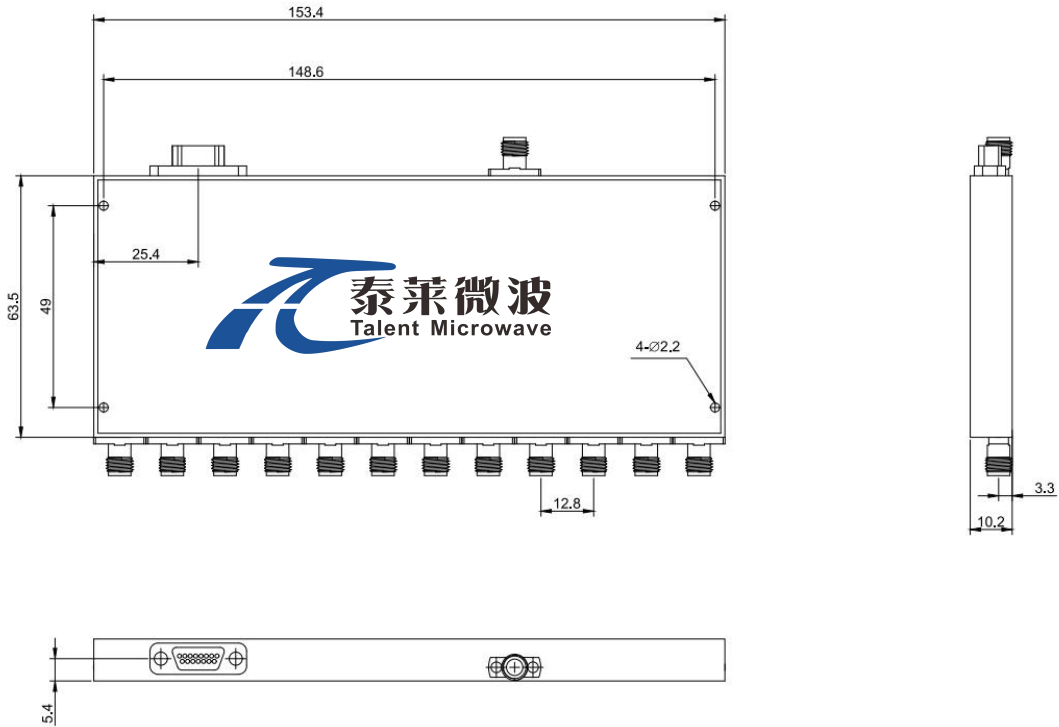
参数Parameter	指标 Value	单位Units
输入输出接口 Input /Output Connector	SMA Female	
直流偏置 Bias	Solder Pin	
尺寸 Size	153.4.*63.5*10.2	mm
重量 Weight		g

**绝对最大值 Absolute Maximum Ratings:**

参数Parameter	指标 Value
供电偏置电压 Supply Bias Voltage	
输入功率 RF INPUT POWER	27 dBm
ESD灵敏度 ESD sensitivity (HBm)	Class 0, passed 150V

外形尺寸 Outline Drawing:

Unit: mm



OBSERVE PRECAUTIONS  
ELECTROSTATIC SENSITIVE  
DEVICES

**\*\*\*Heat Sink Required During Operation**

温度环境 Environmental Conditions:

参数Parameter	Min.	Typ.	Max.	单位Units
操作温度 Operating Temperature	-40		+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			

引脚定义 Pin Function:

针PIN	功能Function
1	C1
2	C2
3	C3
4	C4
5	C5
6	C6
7	C7
8	C8
9	C9
10	C10
11	-5V
12	-5V
13	GND
14	GND
15	NC
16	NC

真值表Truth Table:

真值表Truth Table								
TTL Control Input								Signal Path State
C1	C2	C3	C4	C5	C6	C7	C8	
0	0	0	0	0	0	0	0	J0-J1
0	0	0	1	0	0	0	0	J0-J2
0	0	1	0	0	0	0	0	J0-J3
0	0	1	1	0	0	0	0	J0-J4
0	1	0	0	0	0	0	0	J0-J5
0	1	0	0	0	1	0	0	J0-J6
0	1	0	0	1	0	0	0	J0-J7
0	1	0	0	1	1	0	0	J0-J8
1	0	0	0	0	0	0	0	J0-J9
1	0	0	0	0	0	0	1	J0-J10
1	0	0	0	0	0	1	0	J0-J11
1	0	0	0	0	0	1	1	J0-J12