

**Model: TLDP8G12G-360-8**
**8-Bit Digital Phase Shifter  
8-12GHz**
**Feature:**

- Ultra Wide Band: 8-12GHz
- High Phase Shift Accuracy
- High Phase Shift Range
- Low Phase Error

**电气特性 Electrical:**

参数Parameter	Min.	Typ.	Max.	单位Units
频率范围 Frequency range	8-12			GHz
插损 Insertion Loss			10	dB
输入驻波 Input VSWR		2.0		:1
输出驻波 Output VSWR		2.0		:1
移相范围 Phase Shift Range		360		°
移相步进 Phase Shift step		1.4		°
相位精度 Phase accuracy			±5	°
耐功率 Power Handling			25	dBm
切换速度 Switching speed			5	us
直流电压 DC Voltage		±5		V DC
直流电流 DC Supply Current		510/510		mA
控制位数 Number of Bits		8		Bit

**机械特性 Mechanical :**

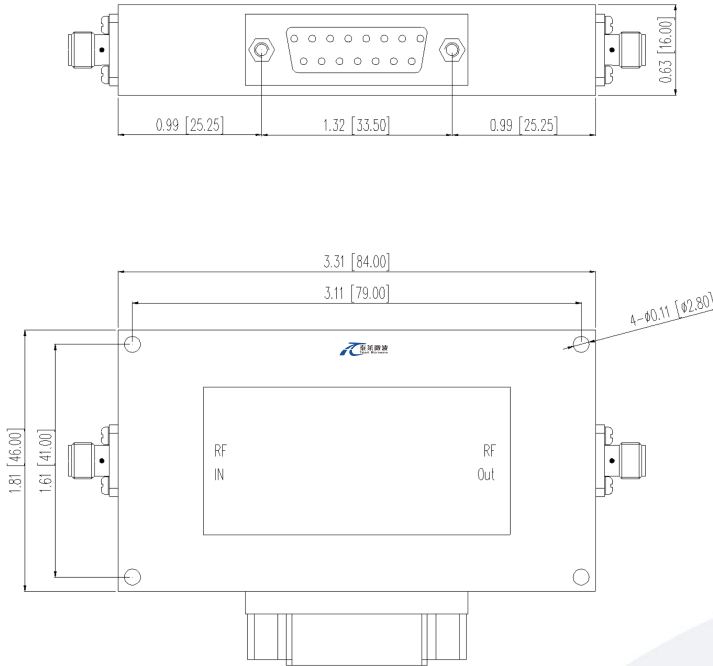
参数Parameter	指标 Value	单位Units
输入输出接口 Input /Output Connector	SMA Female	
DC和控制接口 DC and control interface	D-sub15 Pin Female	
尺寸 Size	56*36*12	mm
重量 Weight	TBD	g

**绝对最大值 Absolute Maximum Ratings:**

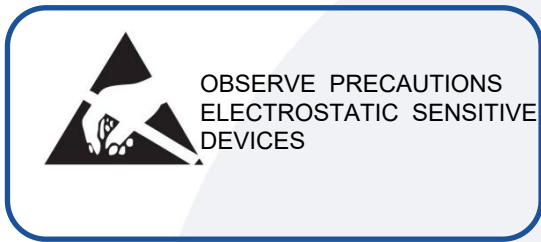
参数Parameter	指标 Value
供电偏置电压 Supply Bias Voltage	+5V (±5%)
输入功率 RF Input Power	25 dBm
ESD灵敏度 ESD sensitivity (HBm)	Class 0, passed 150V

外形尺寸Outline Drawing:

Unit: mm(Inches)



D-sub 9 Female Define	
引脚 Pin #	功能Function
1-8	C1-C8
9	GND
10,11	+5
12,13	-5
14,15	GND



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	Reference
1	0	0	0	0	0	0	1	1.406
0	1	0	0	0	0	1	0	2.812
0	0	1	0	0	1	0	0	5.625
0	0	0	1	0	0	0	0	11.25
0	0	0	0	1	0	0	0	22.5
0	0	0	0	0	1	0	0	45
0	0	0	0	0	0	1	0	90
0	0	0	0	0	0	0	1	180
1	1	1	1	1	1	1	1	360

**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
TLDP-8G12G-360-8	8-Bit Digital Phase Shifter,8-12GHz,SMA	Rev.1.1