

Model: TLDA0.5G6G-63-6
**Digital Attenuator
 0.5-6 GHz, 6-Bit, 63 dB Range**
Feature:

- Ultra Wide Band: 0.5-6GHz
- 6-Bit, 63 dB Range
- Low Insertion Loss
- High Attenuator Accuracy

电气特性 Electrical:

参数Parameter	Min.	Typ.	Max.	单位Units
频率范围 Frequency range	0.5-6			GHz
插损 Insertion Loss		4	5.5	dB
衰减范围 Attenuation Range			63	dB
控制位数 Control Bit TTL		6		Bit
衰减步进 Attenuation Step	1			dB
衰减平坦度 Attenuation Flatness		±2		dB
切换速度 Switch Speed		1		us
输入驻波 Input VSWR		1.5	1.8	:1
输出驻波 Output VSWR		1.5	1.8	:1
最大输入功率 Input Max Power			27	dBm
直流电压 DC Voltage		±5.0		V DC
直流电流 DC Supply Current		50		mA
阻抗 Impedance	50			Ohms

机械特性 Mechanical :

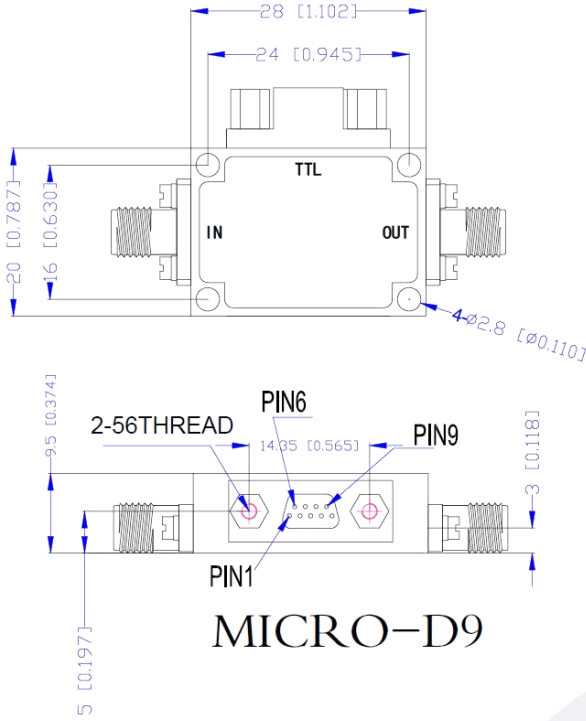
参数Parameter	指标 Value	单位Units
输入输出接口 Input /Output Connector	SMA Female	
控制连接器 Control Connector	MICRO-D15 Female	
尺寸 Size	63*34*10	mm
重量 Weight	TBD	g

绝对最大值 Absolute Maximum Ratings:

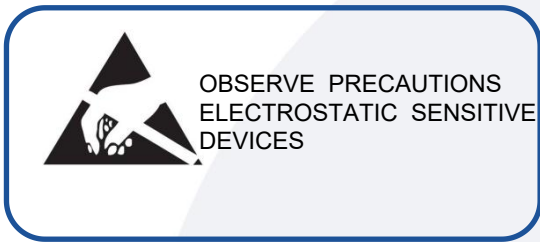
参数Parameter	指标 Value
供电偏置电压 Supply Bias Voltage	TBD
输入功率 RF Input Power	27 dBm
ESD灵敏度 ESD sensitivity (HBm)	Class 0, passed 150V

外形尺寸 Outline Drawing:

Unit: mm(Inches)



MICRO-D15 Female Define	
1	+5V
2	GND
3	NC
4	C1
5	C2
6	C3
7	C4
8	C5
9	C6



Control Voltage Input						Attenuation state
C6	C5	C4	C3	C2	C1	
0	0	0	0	0	0	Reference IL
0	0	0	0	0	1	1dB
0	0	0	0	1	0	2dB
0	0	0	1	0	0	4dB
0	0	1	0	0	0	8dB
0	1	0	0	0	0	16dB
1	0	0	0	0	0	32dB
1	1	1	1	1	1	63dB

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
TLDA0.5G6G-63-6	Digital Attenuator 0.5-6 GHz, 6-Bit, 63 dB Range	Rev.1.1