

Model: TLDA0.1G18G-62-6
Digital Attenuator
0.1-18 GHz, 6-Bit, 1 dB LSB, 62 dB Range
Feature:

- Ultra Wide Band: 0.1-18GHz
- 6-Bit, 1 dB LSB, 62 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	0.1-18			GHz
插损 Insertion Loss		6	8	dB
衰减范围 Attenuation Range		62		dB
控制位数 Control Bit TTL		6		Bit
衰减步进 Attenuation Step		1		dB
切换速度 Switch Speed		50		ns
输入驻波 Input VSWR		2.2	2.5	:1
输出驻波 Output VSWR		2.2	2.5	:1
最大输入功率 Input Max Power			27	dBm
直流电压 DC Voltage		-5		V DC
直流电流 DC Supply Current		20		mA
阻抗 Impedance	50			Ohms

机械特性 Mechanical :

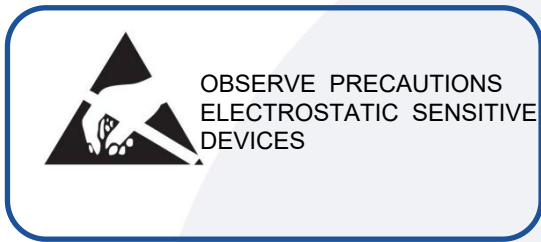
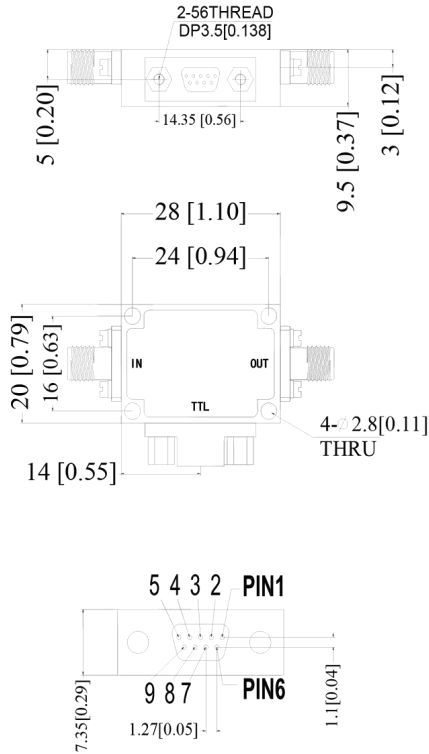
参数Parameter	指标 Value	单位Units
输入输出接口 Input /Output Connector	SMA Female	
控制连接器 Control Connector	J30J-9ZKSP	
尺寸 Size	/	mm
重量 Weight	TBD	g

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)



J30J-9ZKSP	
引脚 Pin #	功能Function
1	-5V
2	GND
4	C2
5	C3
6	C4
7	C5
8	C6
8	NC

真值表 Truth Table (0: 低电平0V, 1: 高电平5V)						
C1	C2	C3	C4	C5	C6	衰减 Attenuation
0	0	0	0	0	0	0 dB
1	0	0	0	0	0	1 dB
0	1	0	0	0	0	2 dB
0	0	1	0	0	0	4 dB
0	0	0	1	0	0	8 dB
0	0	0	0	1	0	16 dB
0	0	0	0	0	1	31 dB
1	1	1	1	1	1	62 dB

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
TLDA0.1G18G-62-6	Digital Attenuator 0.1-18 GHz, 6-Bit, 1 dB LSB, 62 dB Range	Rev.1.1