

Model: TLDA0.1G34G-63-6
Digital Attenuator
0.1-34 GHz, 6-Bit, 0.5 dB LSB, 63 dB Range
Feature:

- Ultra Wide Band: 0.1-34GHz
- 6-Bit, 0.5 dB LSB, 63 dB Range
- Low Insertion Loss
- High Attenuator Accuracy

电气特性 Electrical Specifications:

参数Parameter	Min	Typ	Max	单位Units
频率范围 Frequency range	0.1-34			GHz
插损 Insertion Loss		10		dB
衰减范围 Attenuation Range	63			dB
控制位数 Control Bit TTL	6			Bit
衰减步进 Attenuation Step	0.5			dB
衰减精度 Attenuation Accuracy		±0.5		dB
输入驻波 Input VSWR		1.8		:1
输出驻波 Output VSWR		1.8		:1
最大输入功率 Input Max Power	25			dBm
直流电压 DC Voltage		+12		V DC
直流电流 DC Supply Current		30		mA
通信方式 Communication Mode	Serial communication (RS232 level or TTL level is available for choice)			
阻抗 Impedance	50			Ohms

机械特性 Mechanical Specifications:

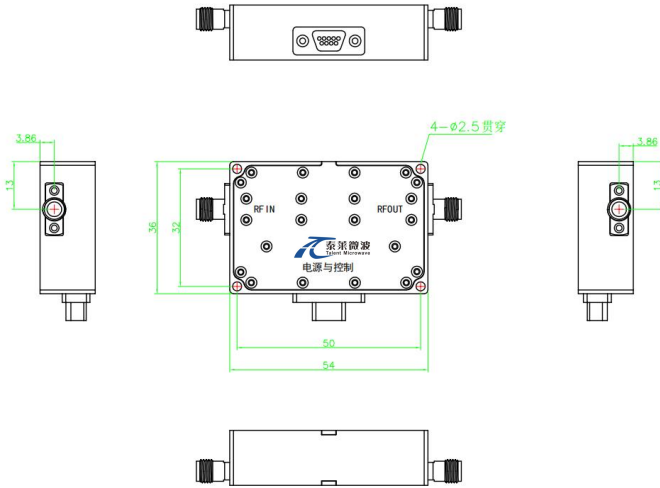
参数 Parameter	指标 Value	单位 Units
输入/输出接口 Input /Output Connector	2.92mm Female/2.92mm Female	
DC控制接口 DC control interface	J30J-9ZKP	
尺寸 Size	54*36*15	mm
重量 Weight	100	g

绝对最大值 Absolute Maximum Ratings:

参数 Parameter	指标 Value
供电偏置电压 Supply Bias Voltage	+20V
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



J30J-9ZKP	
引脚Pin#	功能Function
1	+12V
2	GND
3	TX
4	RX
5	GND
6	+12V
7	GND
8	NC
9	GND

温度环境 Environmental Conditions:

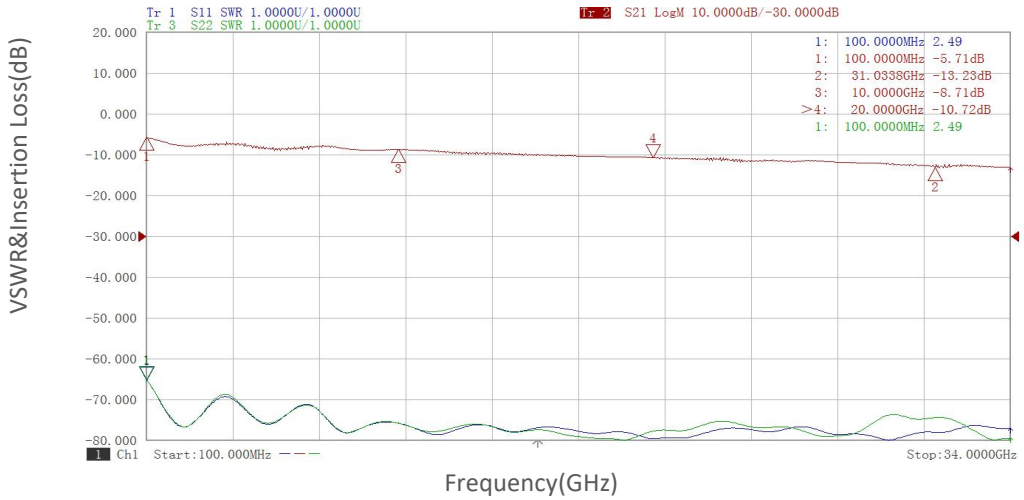
参数 Parameter	Min	Typ	Max	单位 Units
操作温度 Operating Temperature	-25		+85	°C
存储温度 Non-operating Temperature	-55		+125	°C
相对湿度 Relative humidity		95		%
海拔 Altitude	50,000			feet
震动 Shock / Vibration(MIL-STD-810F)	25g rms (15 degree 2KHz) endurance, 1 hour per axis			
冲击 Shock(non operating)	20G for 11msec 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
TLDA0.1G34G-63-6	6-Bit Digital Digital Attenuator, 0.1-34GHz, 2.92mm Female	Rev.1.1

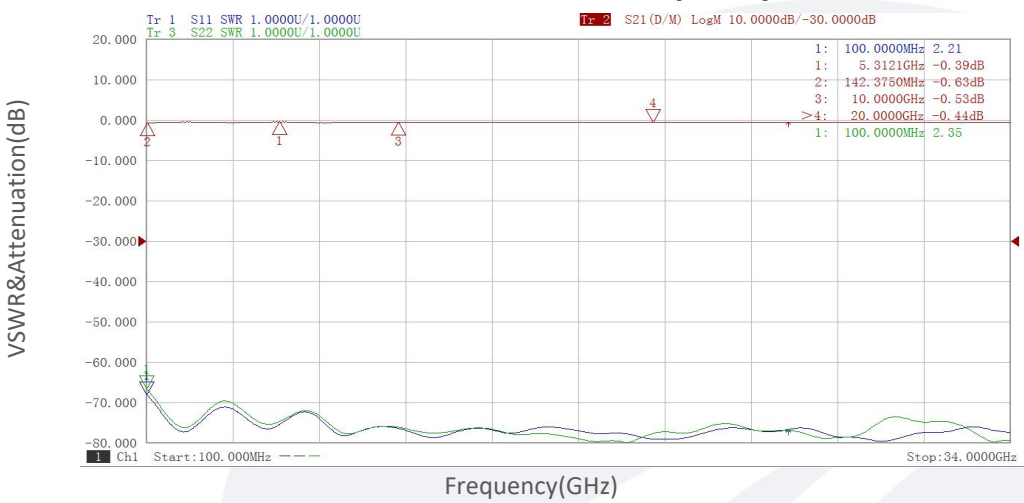
典型曲线 Typical Performance Data:

VSWR&Insertion Loss vs Frequency



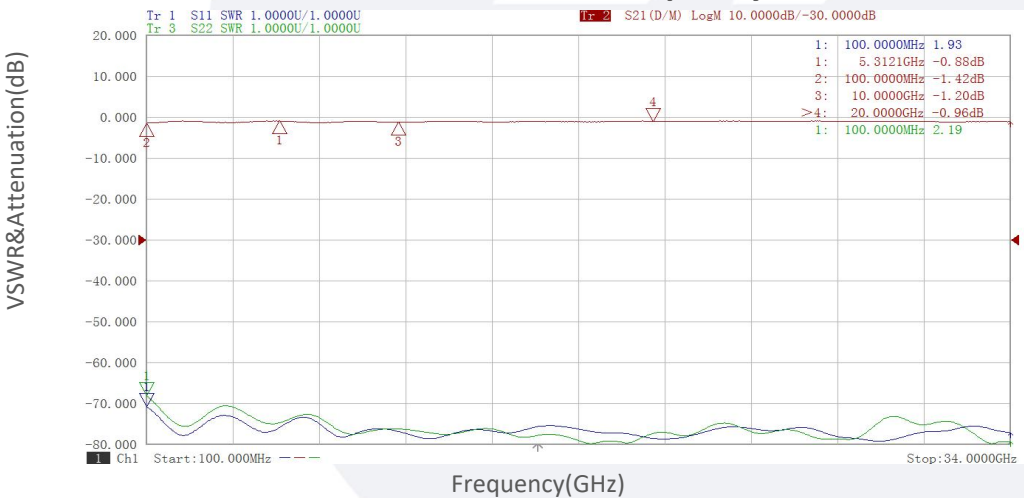
0.5dB:

VSWR&Attenuation vs Frequency



1dB:

VSWR&Attenuation vs Frequency

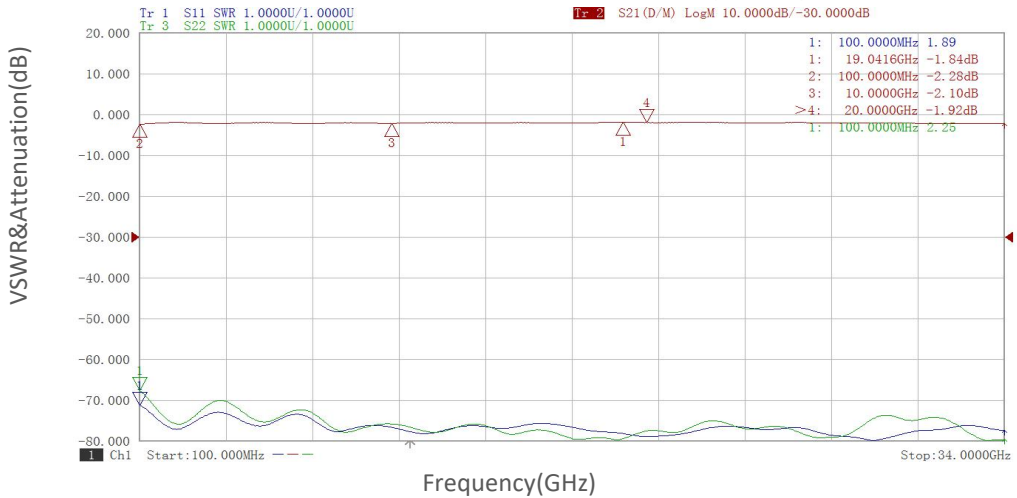


Note: Above data is for ref only, actual data may vary from unit to unit depending on operating environment and other factors like material lots etc.

典型曲线 Typical Performance Data:

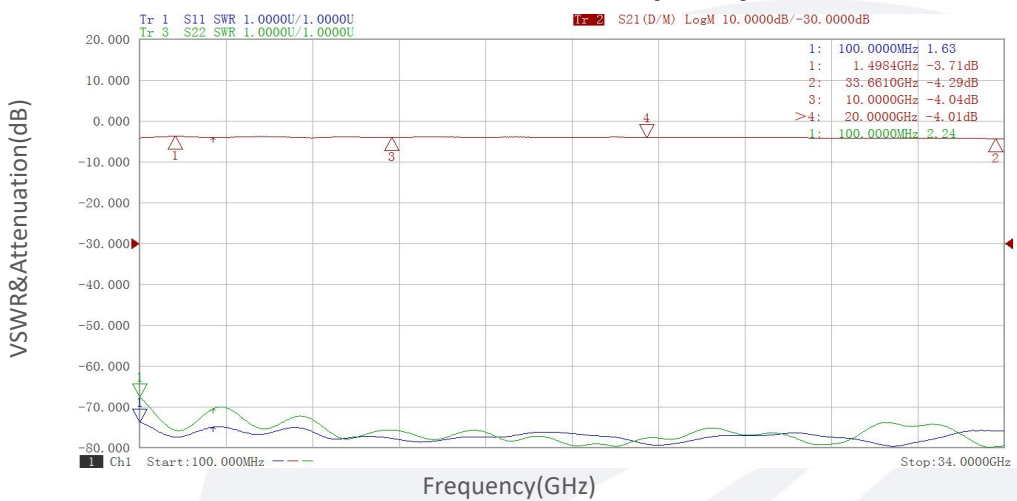
2dB:

VSWR&Attenuation vs Frequency



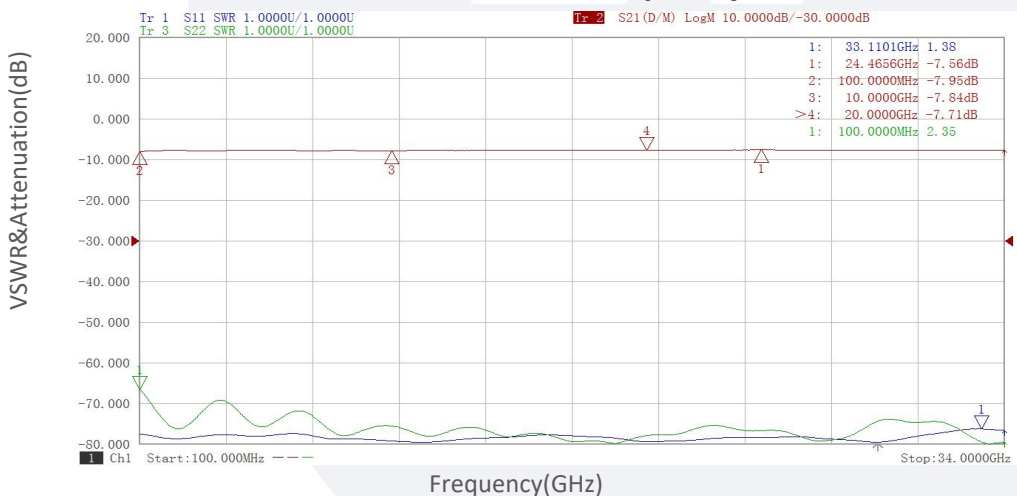
4dB:

VSWR&Attenuation vs Frequency



8dB:

VSWR&Attenuation vs Frequency

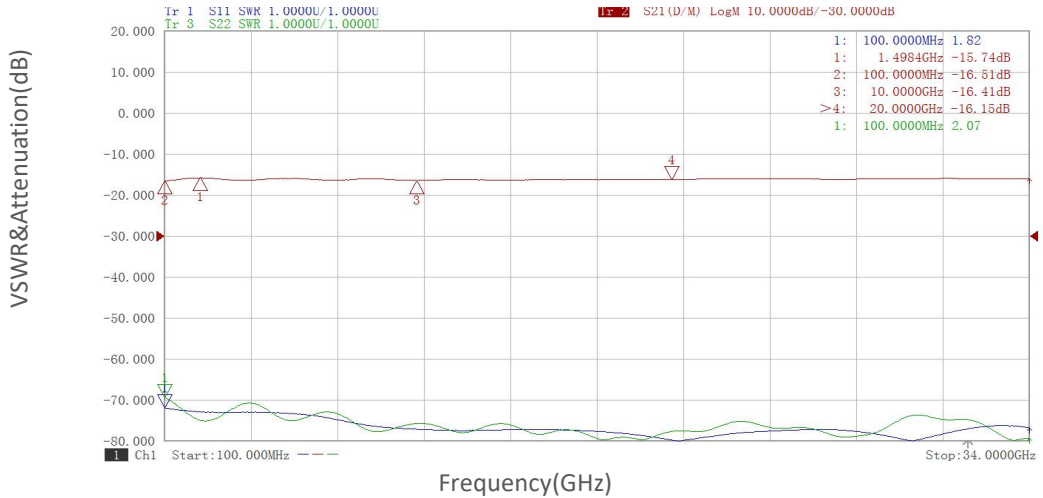


Note: Above data is for ref only, actual data may vary from unit to unit depending on operating environment and other factors like material lots etc.

典型曲线 Typical Performance Data:

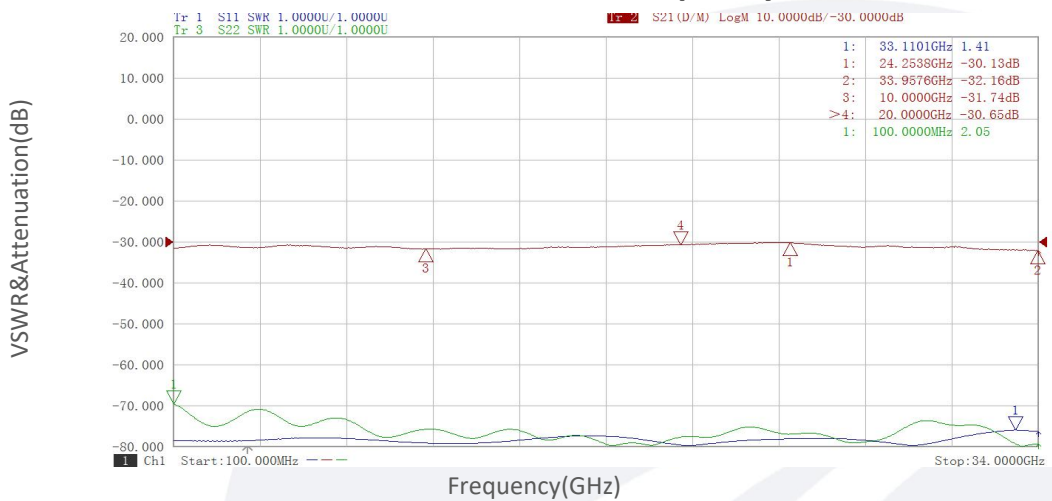
16dB:

VSWR&Attenuation vs Frequency



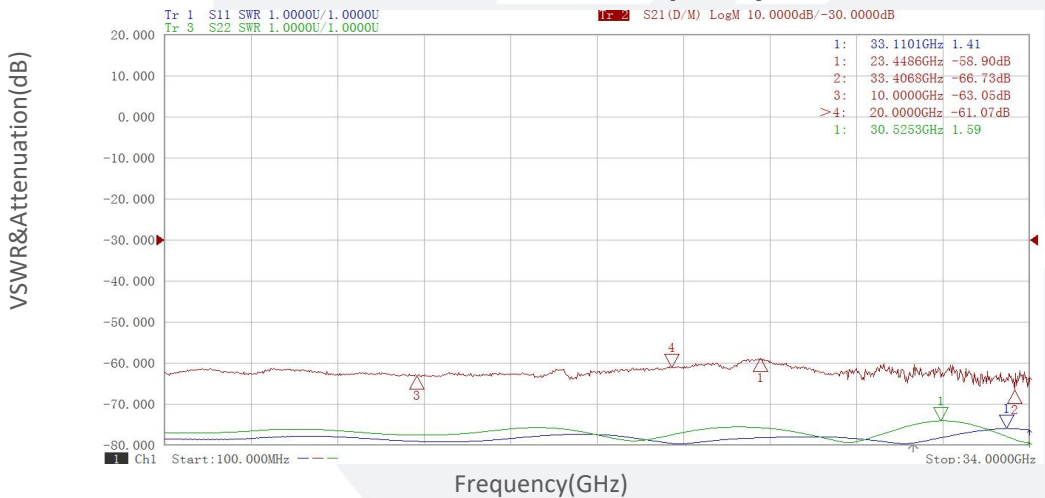
31.5dB:

VSWR&Attenuation vs Frequency



63dB:

VSWR&Attenuation vs Frequency



Note: Above data is for ref only, actual data may vary from unit to unit depending on operating environment and other factors like material lots etc.