

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

Electrical Specifications:

Parameter	Min	Typ	Max	Units
Frequency range	0.1-34			GHz
Insertion Loss		10		dB
Attenuation Range	63			dB
Control Bit TTL	6			Bit
Attenuation Step	0.5			dB
Attenuation Accuracy		±0.5		dB
Input VSWR		1.8		:1
Output VSWR		1.8		:1
Input Max Power	25			dBm
DC Voltage		+12		V DC
DC Supply Current		30		mA
Communication Mode	Serial communication (RS232 level or TTL level is available for choice)			
Impedance	50			Ohms

Mechanical Specifications:

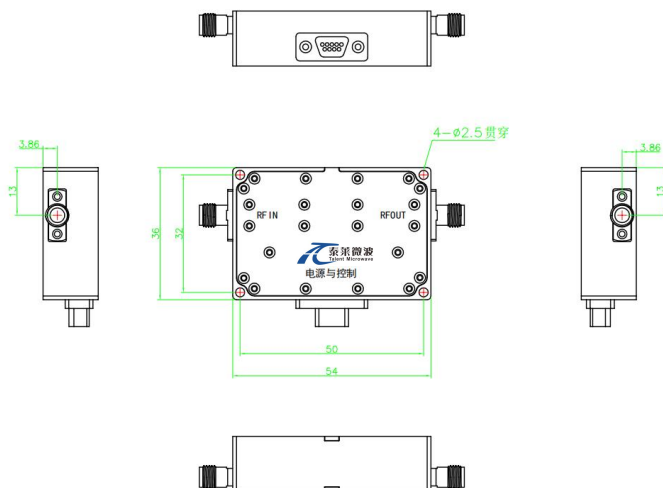
Parameter	Value	Units
Input /Output Connector	2.92mm Female/2.92mm Female	
DC control interface	J30J-9ZKP	
Size	54*36*15	mm
Weight	100	g

Absolute Maximum Ratings:

Parameter	Value
Supply Bias Voltage	+20V
RF Input Power	25 dBm
ESD sensitivity (HBm)	Class 0, passed 150V

Outline Drawing:

Unit: mm



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

Environmental Conditions:

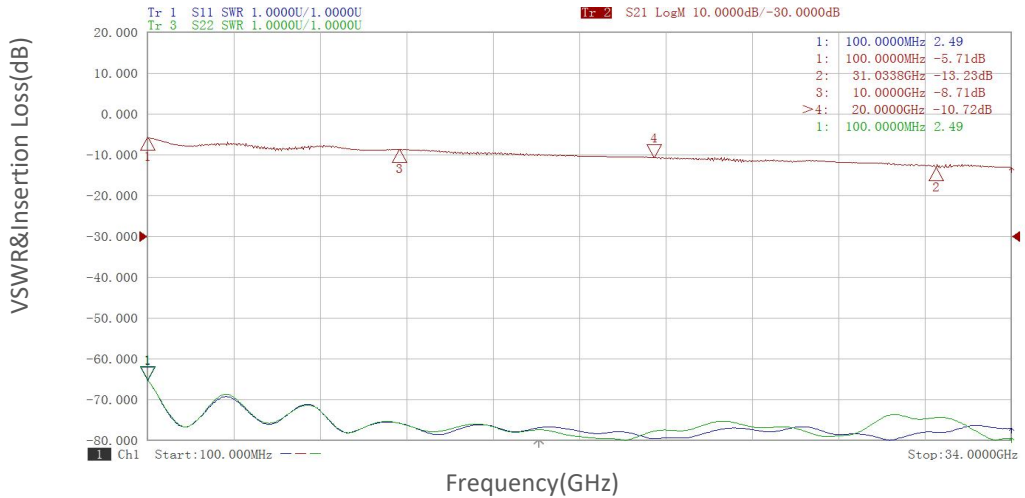
Parameter	Min	Typ	Max	Units
Operating Temperature	-25		+85	°C
Non-operating Temperature	-55		+125	°C
Relative humidity		95		%
Altitude	50,000			feet
Shock / Vibration(MIL-STD-810F)	25g rms (15 degree 2KHz) endurance, 1 hour per axis			
Shock(non operating)	20G for 11msc half sin wave, 3 axis both directions			

Ordering Information:

Part Number	Description	Revision
TLDA0.1G34G-63-6	6-Bit Digital Digital Attenuator, 0.1-34GHz, 2.92mm Female	Rev.1.1

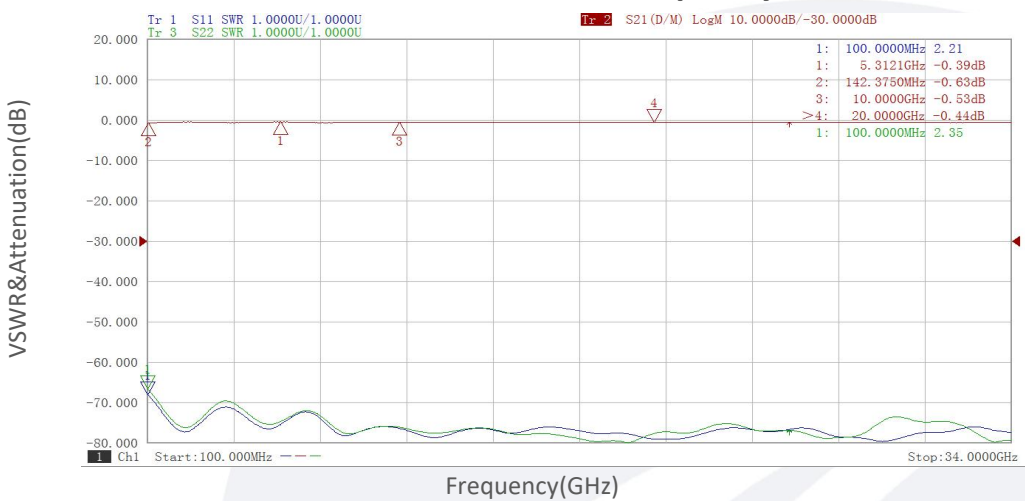
Typical Performance Data:

VSWR&Insertion Loss vs Frequency



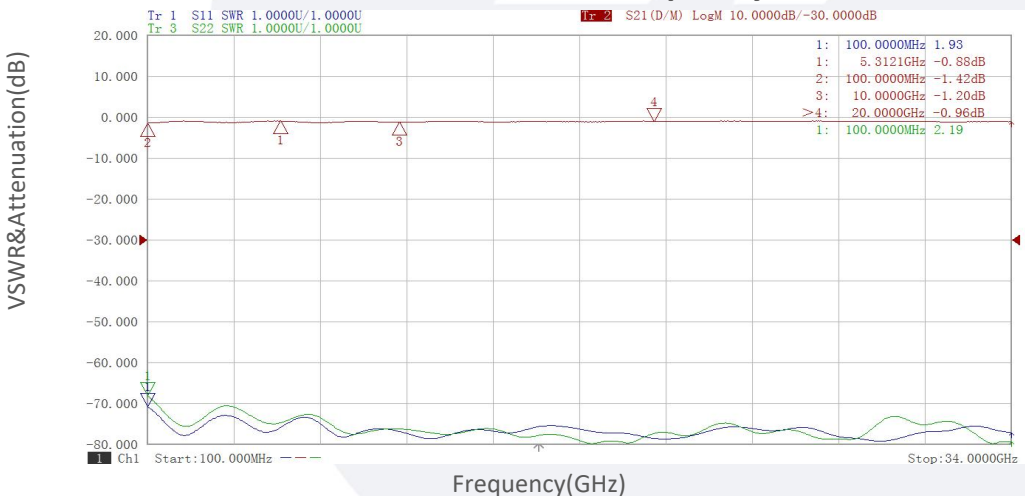
0.5dB:

VSWR&Attenuation vs Frequency



1dB:

VSWR&Attenuation vs Frequency

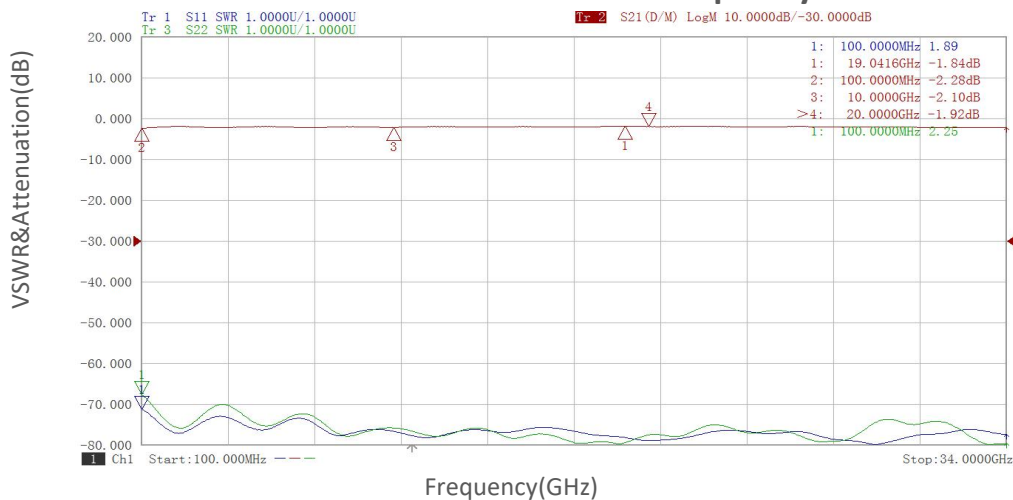


Note: Above data is for ref only, actual data may vary from unit to unit depending on operating environment and other factors like material lots etc.

Typical Performance Data:

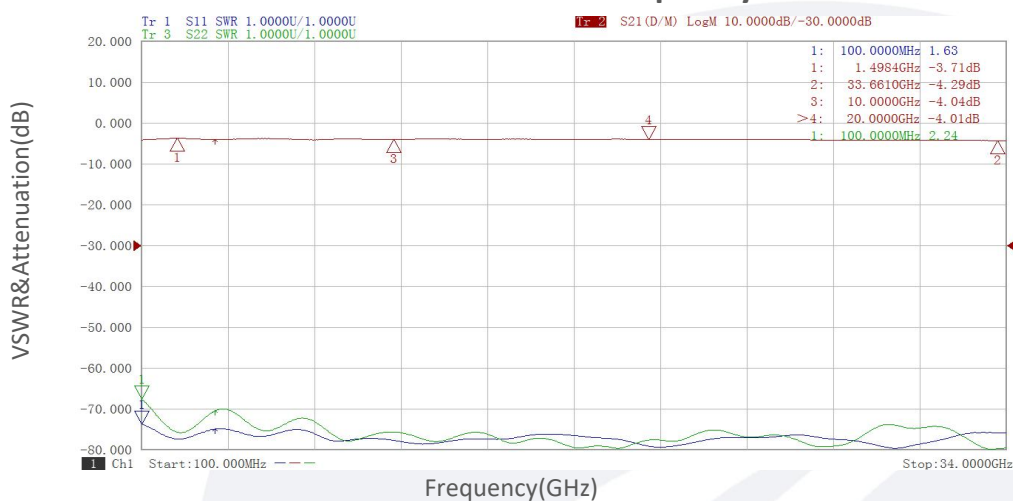
2dB:

VSWR&Attenuation vs Frequency



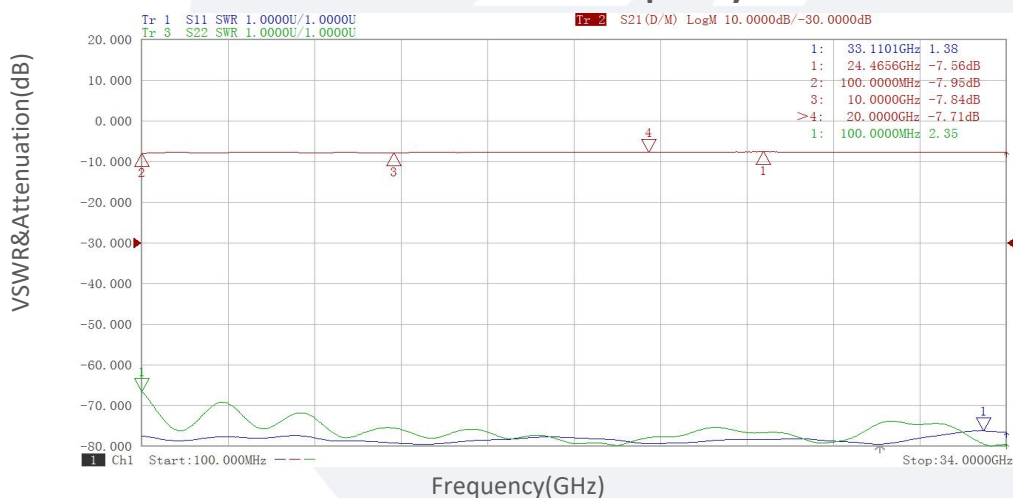
4dB:

VSWR&Attenuation vs Frequency



8dB:

VSWR&Attenuation vs Frequency

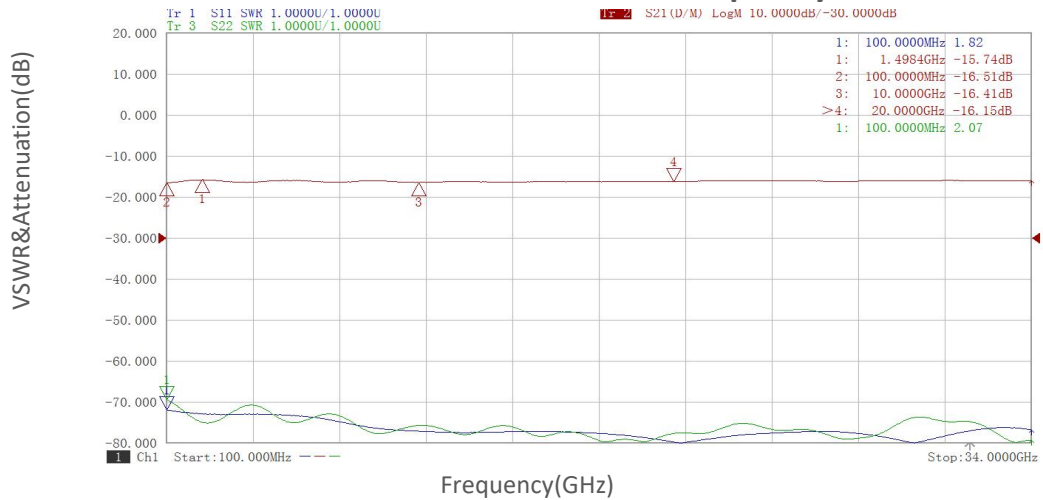


Note: Above data is for ref only, actual data may vary from unit to unit depending on operating environment and other factors like material lots etc.

Typical Performance Data:

16dB:

VSWR&Attenuation vs Frequency



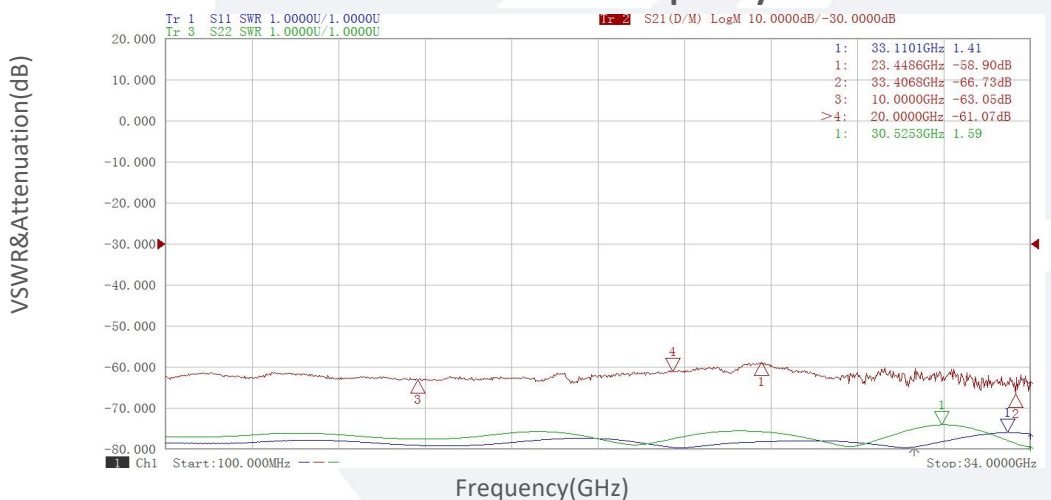
31.5dB:

VSWR&Attenuation vs Frequency



63dB:

VSWR&Attenuation vs Frequency



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