泰莱微波
Talent Microwave

Suzhou Talent Microwave,Inc
+86-0512-62657975
sales@talentmw.com
www.talentmw.com

Model:TLDA0.1G50G-62-6-USB

Digital Attenuator
0.1-50 GHz, 6-Bit, 0.5 dB LSB,63 dB Range

Feature:

- Ultra Wide Band: 0.1-50GHz
- 6-Bit, 0.5 dB LSB, 63 dB Range
- Low Insertion Loss
- High Attenuator Accuracy

Electrical Specifications:

Parameter		Min	Typ	Max	Units
Frequency range			0.1-50		GHz
Insertion Loss	@0.1-20GHz		10		dB
	@20-40GHz		15		
	@40-50GHz		20		
Attenuation Range			63		dB
Control Bit TTL			6		Bit
Attenuation Step			0.5		dB
Switch Speed			3		ms
Input VSWR			2.2	2.5	:1
Output VSWR			2.2	2.5	:1
Input Max Power				27	dBm
DC Voltage			USB power supply		V DC
DC Supply Current			USB power supply		mA
Impedance			50		Ohms

Mechanical Specifications:

Parameter	Value	Units
Input /Output Connector	2.4mm Female/2.4mm Female	
DC control interface	USB 2.0 Type A	
Size	/	mm
Weight	70	g

Absolute Maximum Ratings:

Parameter	Value
RF Input Power	25 dBm
ESD sensitivity (HBm)	Class 0, passed 150V

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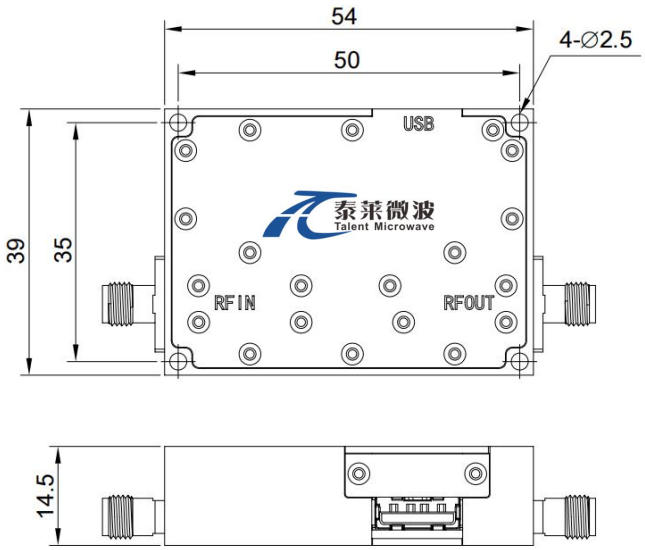
Outline Drawing:

Unit: mm



upper computer software:

OBSERVE PRECAUTIONS
ELECTROSTATIC SENSITIVE
DEVICES

Environmental Conditions:

Parameter	Min	Typ	Max	Units
Operating Temperature	-45		+85	℃
Non-operating Temperature	-55		+125	℃
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
TLDA0.1G50G-62-6	6-Bit Digital Digital Attenuator,0.1-50GHz,2.4mm Female	Rev.1.1

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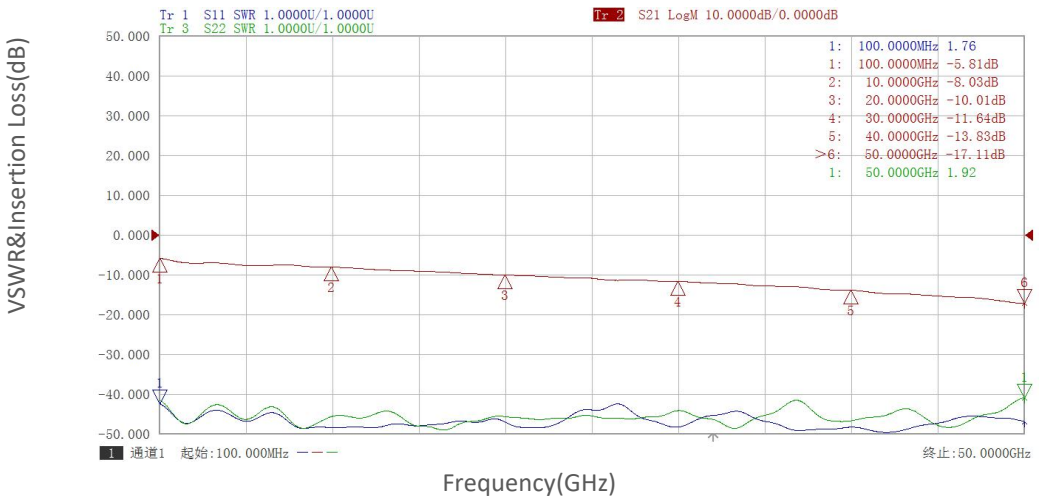
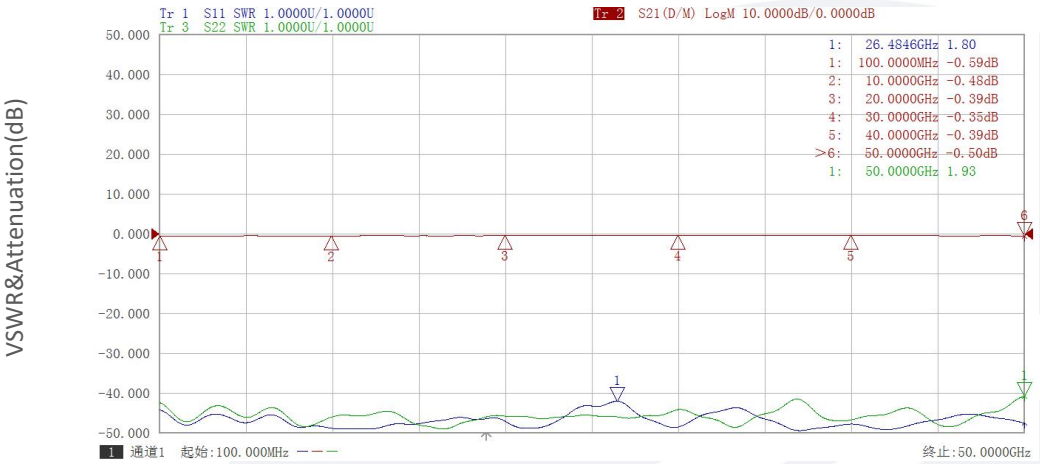
Typical Performance Data:

VSWR&Insertion Loss vs Frequency



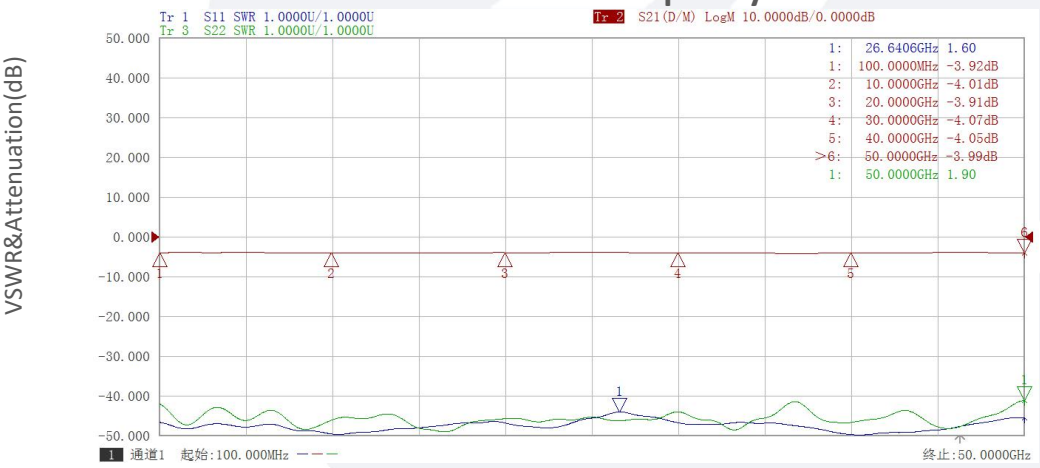
0.5dB:

VSWR&Attenuation vs Frequency



4dB:

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.

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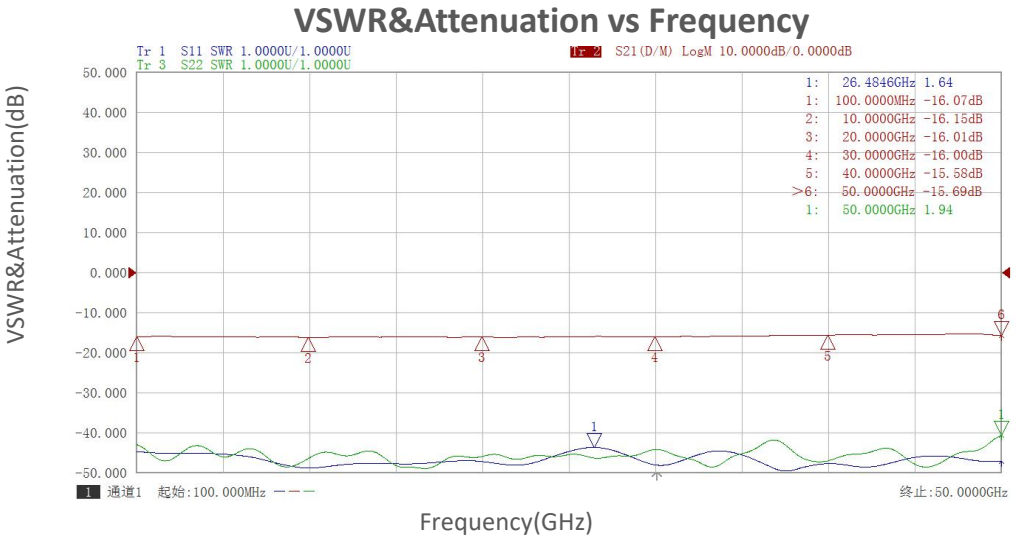
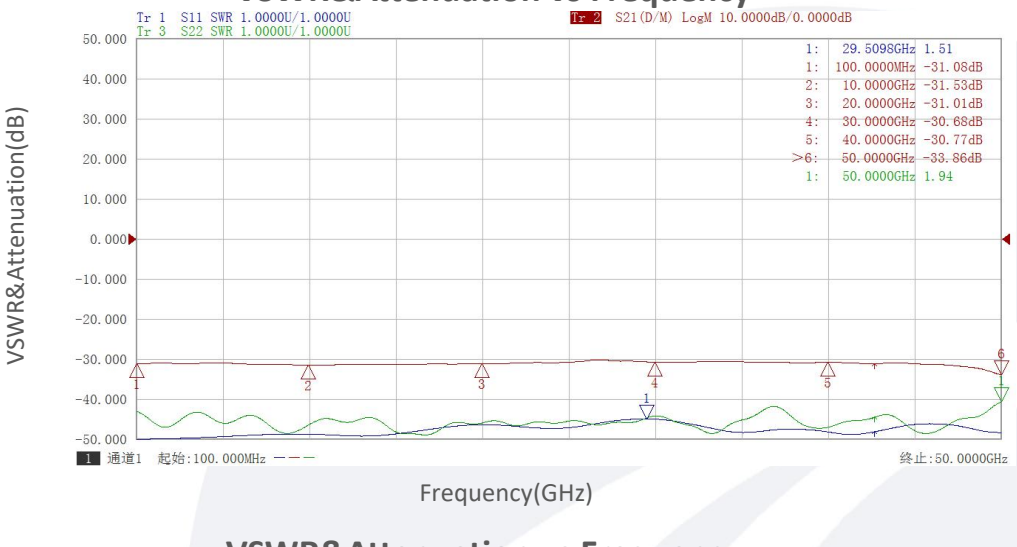
Typical Performance Data:

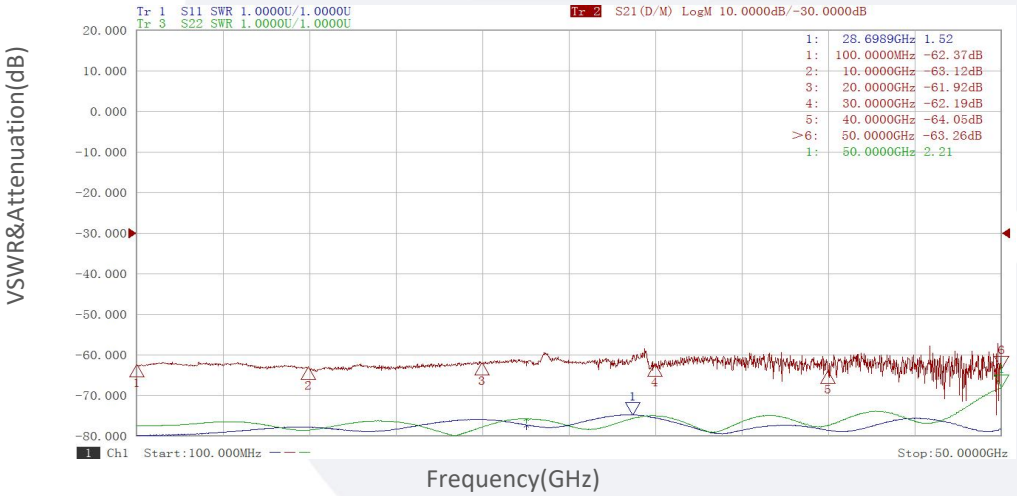
16dB:



31.5dB:



63dB:



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