泰莱微波
Talent Microwave

Suzhou Talent Microwave,Inc
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www.talentmw.com

Model:TLDA0.1G18G-63-7

Digital Attenuator
0.1-18 GHz, 7-Bit, 0.5 dB LSB, 63 dB Range

Feature:

- Ultra Wide Band: 0.1-18GHz
- 7-Bit, 0.5 dB LSB, 63 dB Range
- Low Insertion Loss
- High Attenuator Accuracy

Electrical Specifications:

Parameter	Min.	Typ.	Max.	Units
Frequency range		0.1-18		GHz
Insertion Loss		4.5		dB
Attenuation Range		63		dB
Control Bit TTL		7		Bit
Attenuation Step		0.5		dB
Switch Speed		50		ns
Input VSWR		2.2		:1
Output VSWR		2.2		:1
Input Max Power		24		dBm
DC Voltage		+5		V DC
DC Supply Current		20		mA
Impedance		50		Ohms

Mechanical Specifications:

Parameter	Value	Units
Input /Output Connector	SMA Female	
DC and control interface	J30J-9ZKP	
尺Size	27*24*11	mm
Weight	/	g

Absolute Maximum Ratings:

Parameter	Value
Supply Bias Voltage	+5V (±5%)
RF Input Power	24 dBm
ESD sensitivity (HBm)	Class 0, passed 150V

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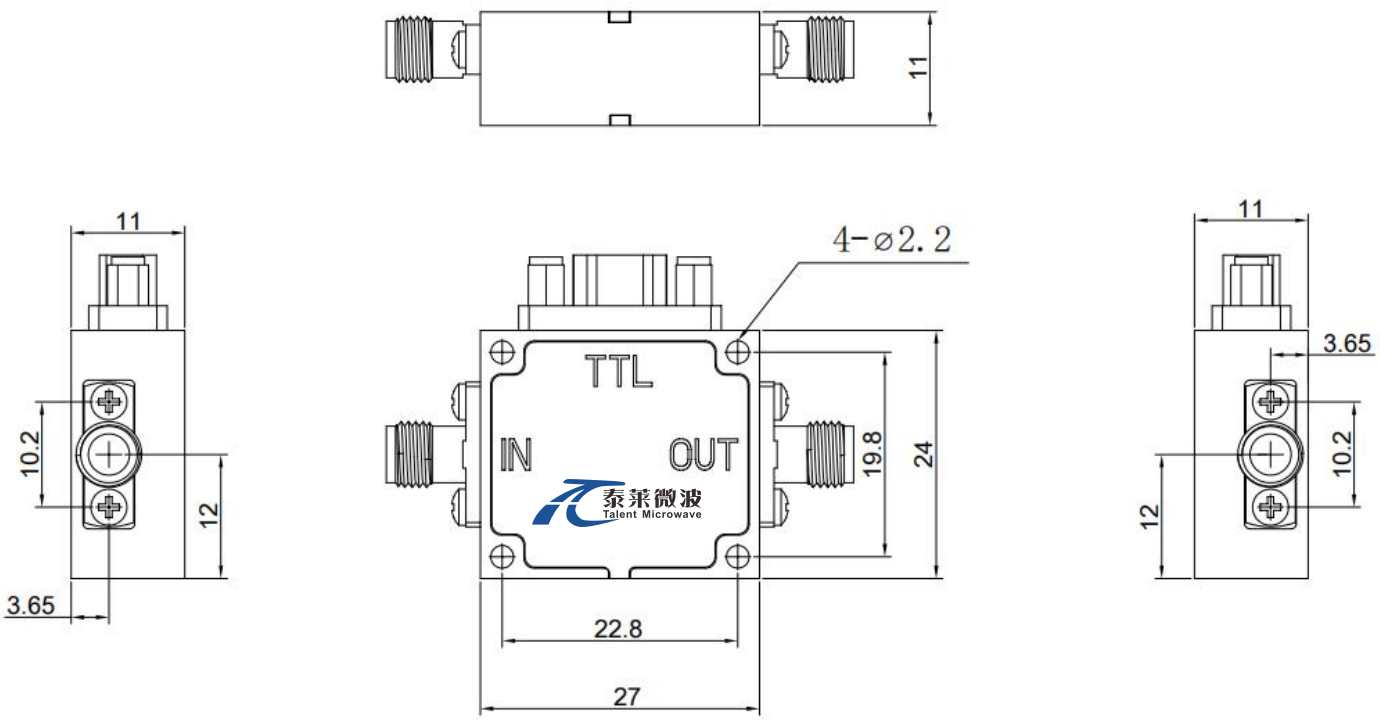
Outline Drawing:

Unit: mm(Inches)



Truth Table							
TTL Control Input							Signal Path State
V1	V2	V3	V4	V5	V6	V7	
0	0	0	0	0	0	0	0dB
1	0	0	0	0	0	0	0.5dB
0	1	0	0	0	0	0	1dB
0	0	1	0	0	0	0	2dB
0	0	0	1	0	0	0	4dB
0	0	0	0	1	0	0	8dB
0	0	0	0	0	1	0	16dB
1	1	1	1	1	1	0	31.5dB
1	1	1	1	1	1	1	63dB

Note：Control to 0/+5V control，+5V is 1

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J30J-9ZKP	
Pin#	**Function**
1	V1
2	V2
3	V3
4	V4
5	V5
6	V6
7	V7
8	+5V
9	GND

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
TLDP-6G18G-360-6	6-Bit Digital Phase Shifter,6-18GHz,SMA	Rev.1.1

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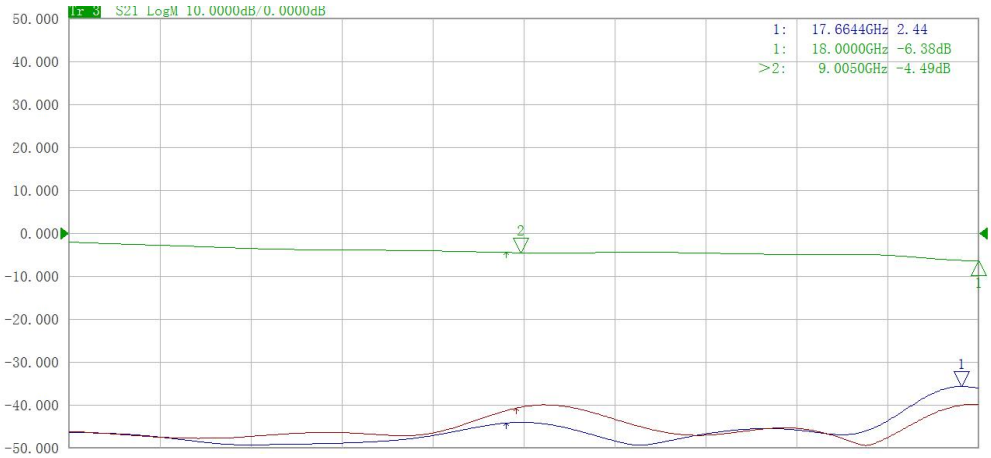
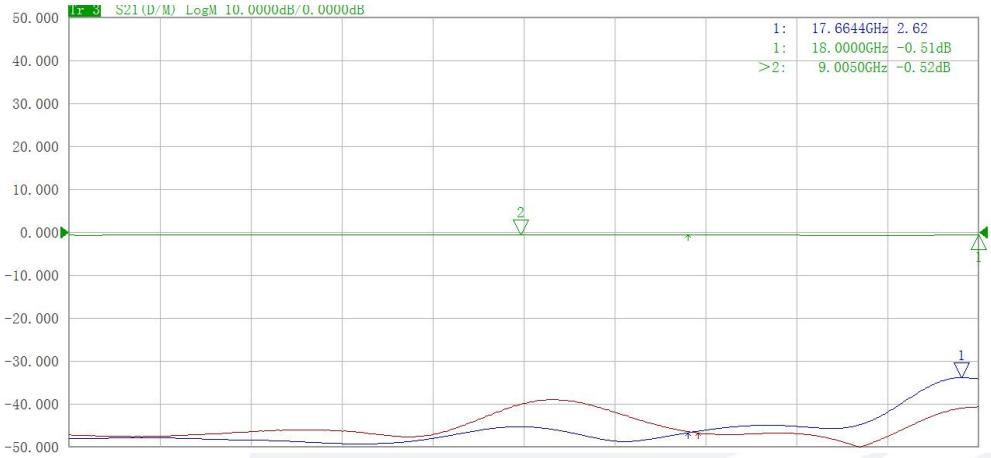
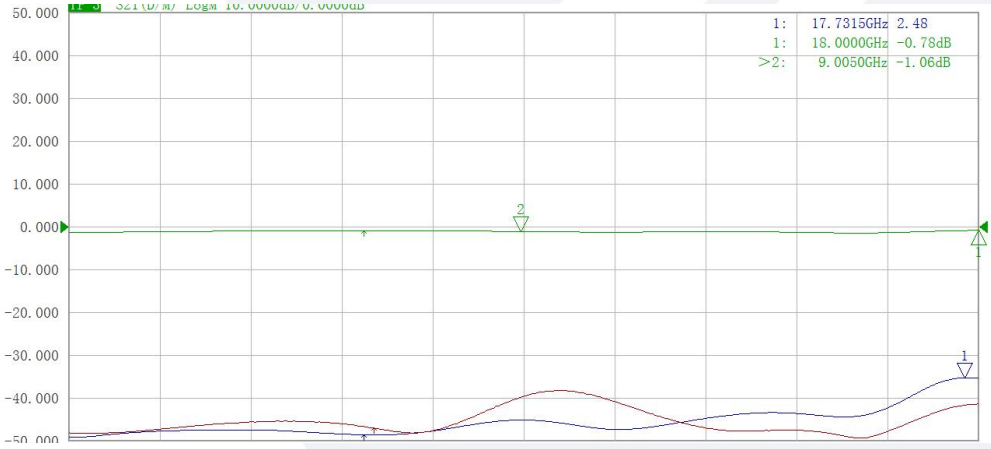
Typical Performance Data:



0dB attenuation



0.5dB attenuation



1dB attenuation

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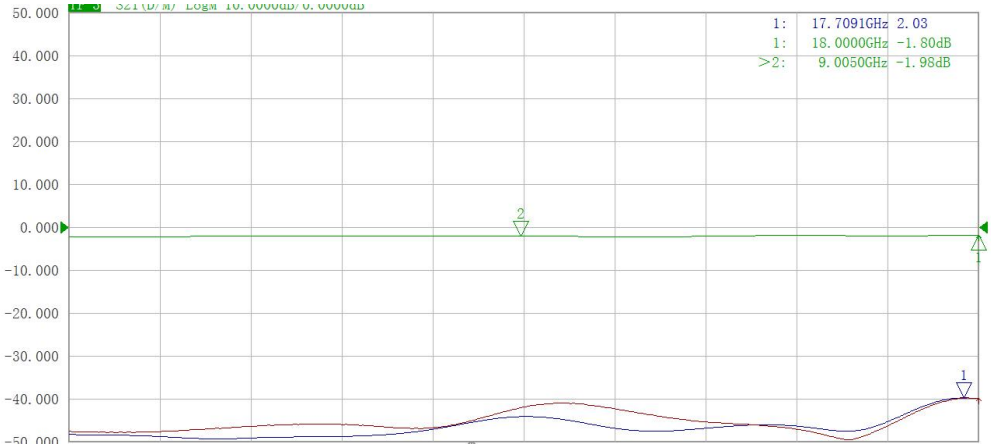
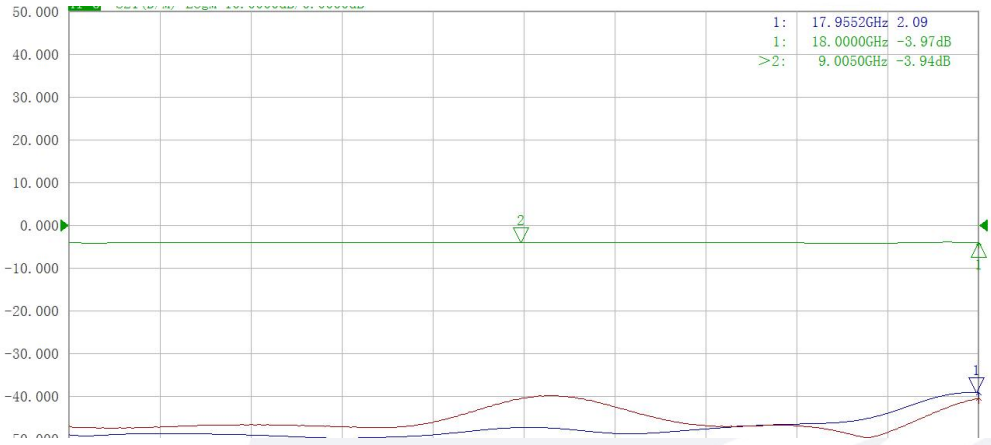
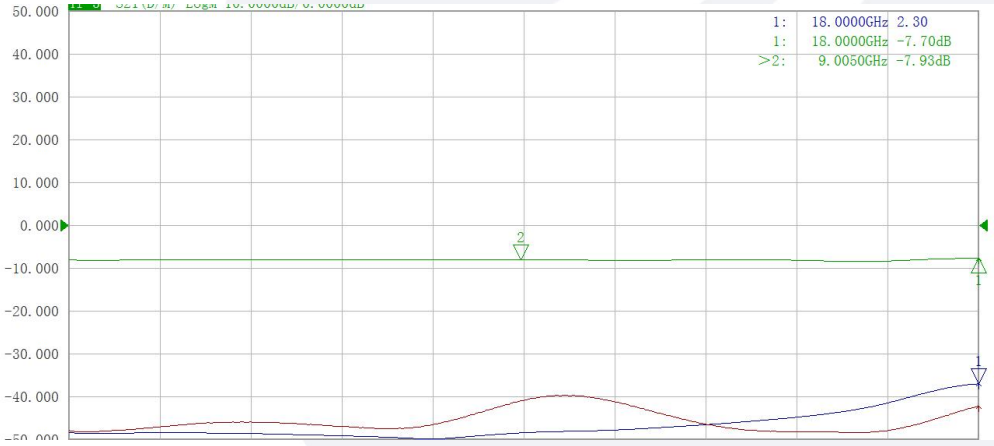
典型曲线 Typical Performance Data:



2dB attenuation



4dB attenuation



8dB attenuation

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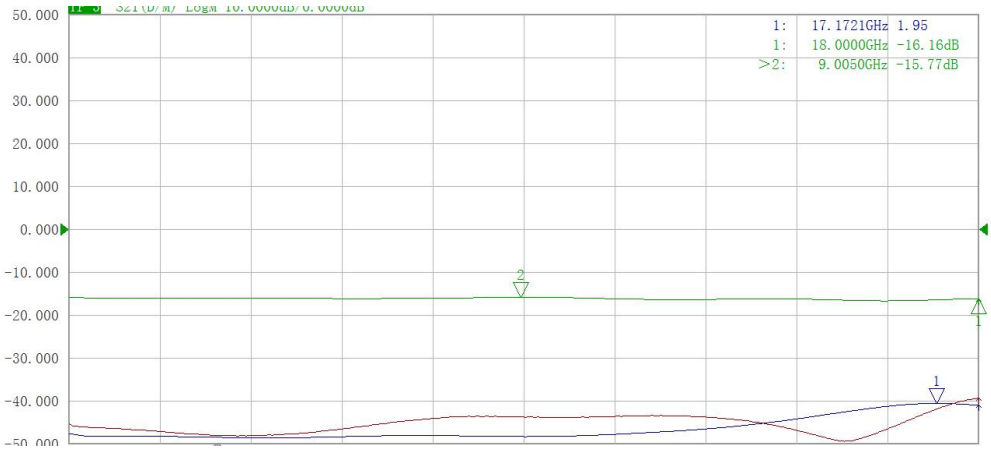
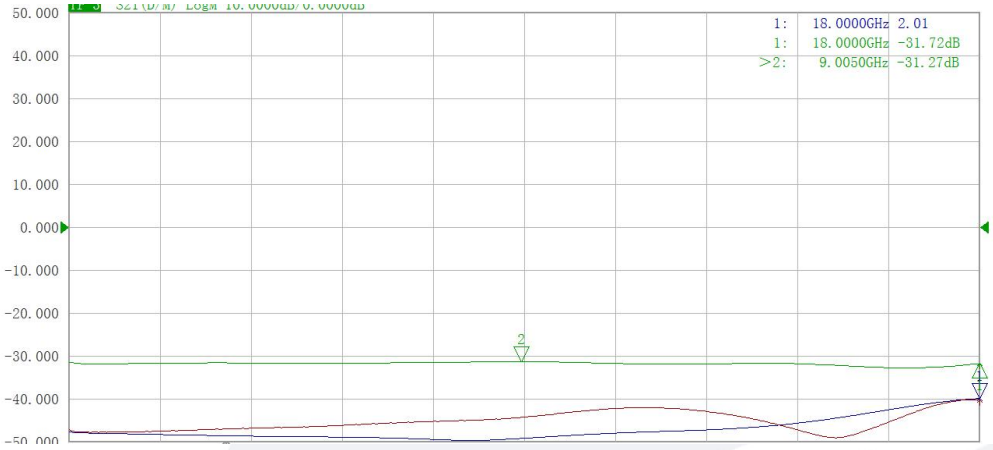
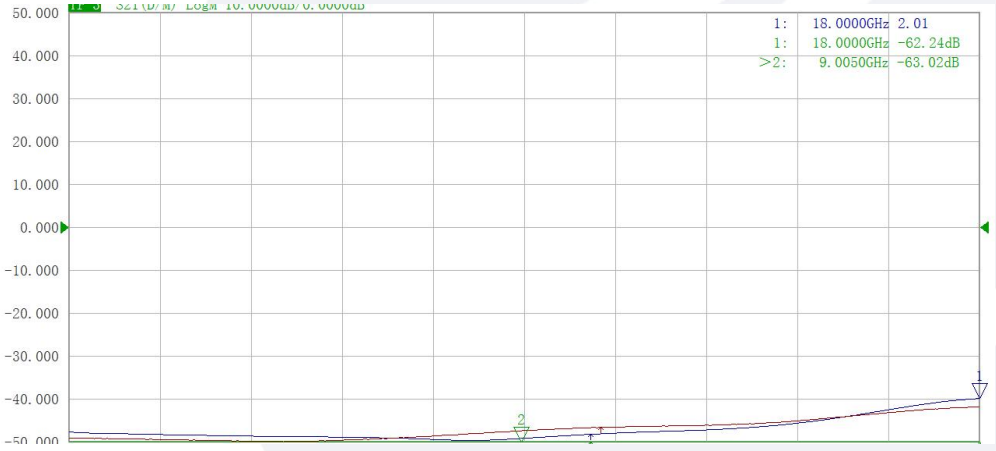


16dB attenuation



31.5dB attenuation



63dB attenuation