

Model:TLDP18G26.5G-360-6

6-Bit Digital Phase Shifter 18-26.5GHz

Feature:

- Ultra Wide Band: 18-26.5GHz
- High Phase Shift Accuracy
- High Phase Shift Range
- Low Phase Error

Electrical:

Parameter	Min.	Typ.	Max.	Units
Frequency range	18-26.5			GHz
Insertion Loss		13		dB
Input VSWR		1.8	2.1	:1
Output VSWR		1.8	2.1	:1
Lesat Significant Bit(LSB)		5.625		°
Phase Shift Range		360		°
Phase accuracy		±5	±15	°
Power Handing			25	dBm
Switching speed		20		ns
DC Voltage		+5		V DC
DC Supply Current		20		mA
Number of Bits		6		Bit

Mechanical :

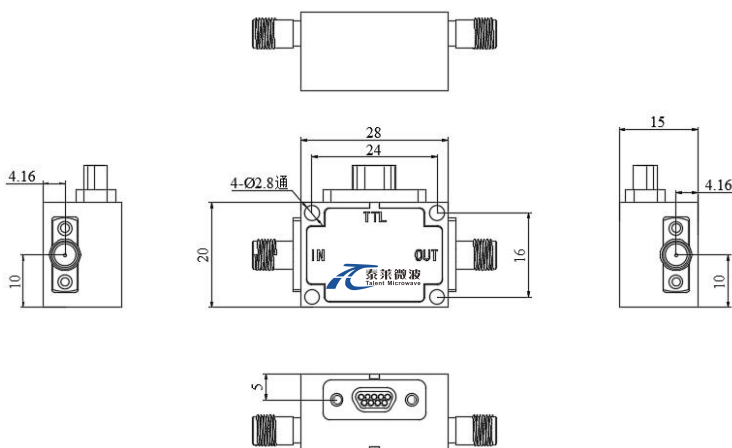
Parameter	Value	Units
Input /Output Connector	2.92 Female	
DC and control interface	J30J-9ZKP	
Size	28*20*15	mm
Weight	/	g

Absolute Maximum Ratings:

Parameter	Value
Supply Bias Voltage	+5V (±5%)
RF Input Power	25 dBm
ESD sensitivity (HBm)	Class 0, passed 150V

Outline Drawing:

Unit: mm(Inches)



Truth Table						
TTL Control Input						Signal Path State
Bit1	Bit2	Bit3	Bit4	Bit5	Bit6	
0	0	0	0	0	0	Reference
1	0	0	0	0	0	5.625
0	1	0	0	0	0	11.25
0	0	1	0	0	0	22.5
0	0	0	1	0	0	45
0	0	0	0	1	0	90
0	0	0	0	0	1	180
1	1	1	1	1	1	354.375

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

PIN	2-7	1	8	9
Function	Bit6-Bit1	+5V	GND	NC

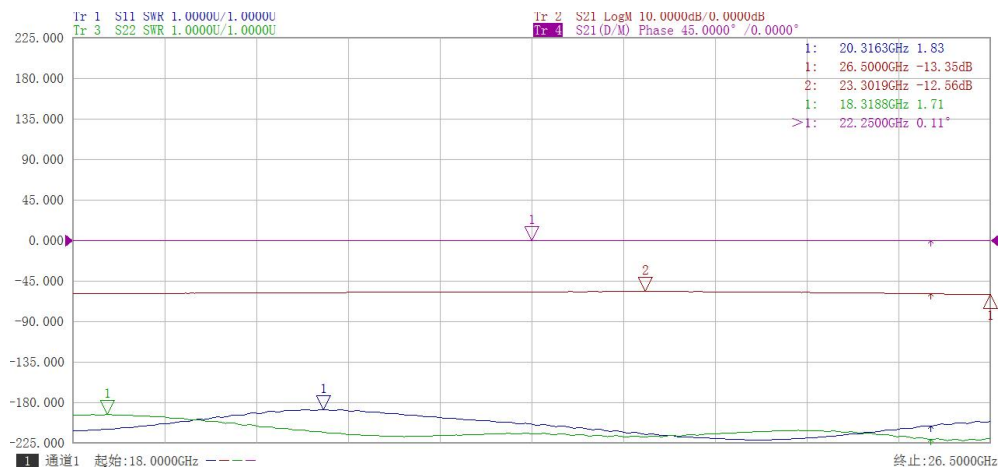
Environmental Conditions:

Parameter	Min.	Typ.	Max.	Units
Operating Temperature	-45		+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
TLDP18G26.5G-360-6	6-Bit Digital Phase Shifter,18-26.5GHz,2.92 Female	Rev.1.1

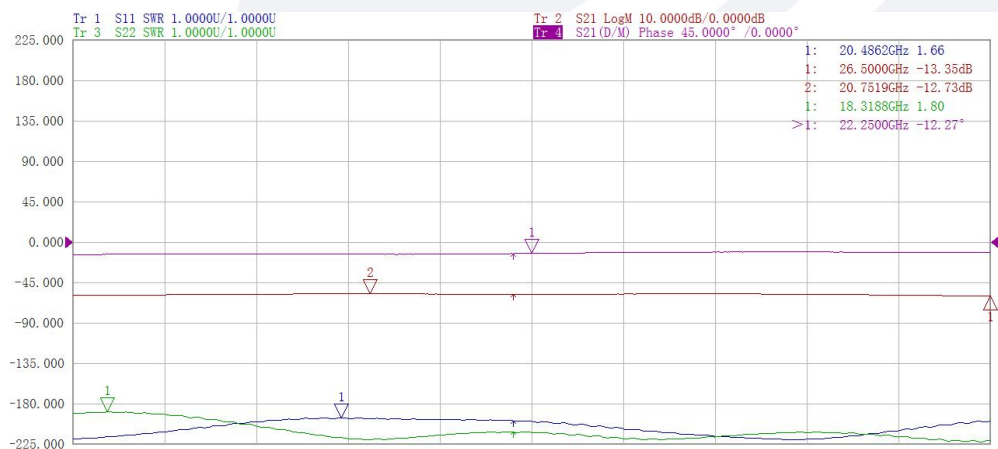
Typical Performance Data:



基态幅频特性曲线

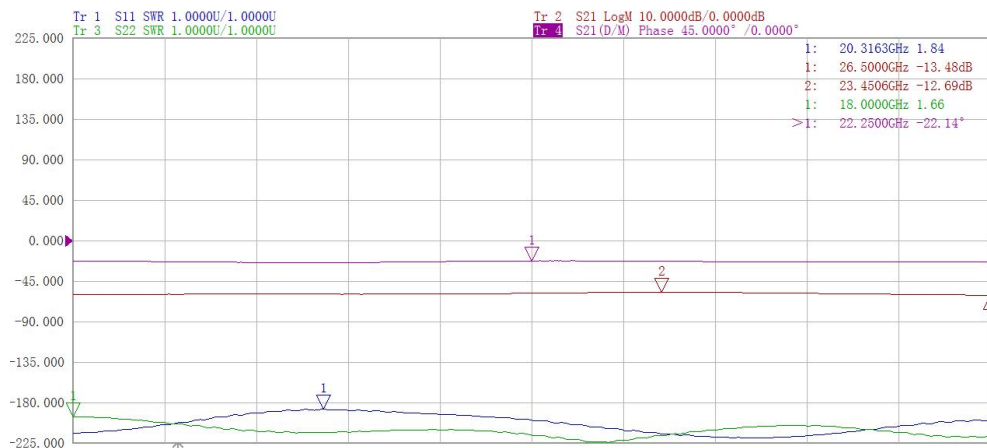


移相5.625° 幅频特性曲线



移相11.25° 幅频特性曲线

Typical Performance Data:



移相22.5° 幅频特性曲线

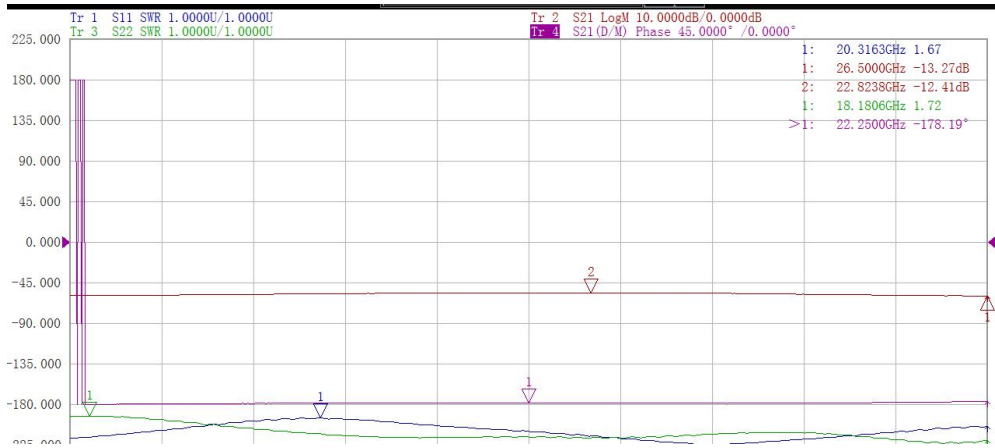


移相45° 幅频特性曲线



移相90° 幅频特性曲线

Typical Performance Data:



移相180° 幅频特性曲线