

Model:TLDP12G18G-360-6

6-Bit Digital Phase Shifter 12-18GHz

Feature:

- Ultra Wide Band: 12-18GHz
- High Phase Shift Accuracy
- High Phase Shift Range
- Low Phase Error

电气特性 Electrical:

参数Parameter	Min.	Typ.	Max.	单位Units
频率范围 Frequency range	12-18			GHz
插损 Insertion Loss		9	10	dB
输入驻波 Input VSWR		1.5	2.5	:1
输出驻波 Output VSWR		2.5	3	:1
移相范围 Phase Shift Range		360		°
相位平坦度 Phase Flatness		±8	±10	°
步进 Step		5.625		°
耐功率 Power Handling			30	dBm
切换速度 Switching speed		100		ns
直流电压 DC Voltage		+5		V DC
直流电流 DC Supply Current		2		mA
控制位数 Number of Bits		6		Bit

机械特性 Mechanical :

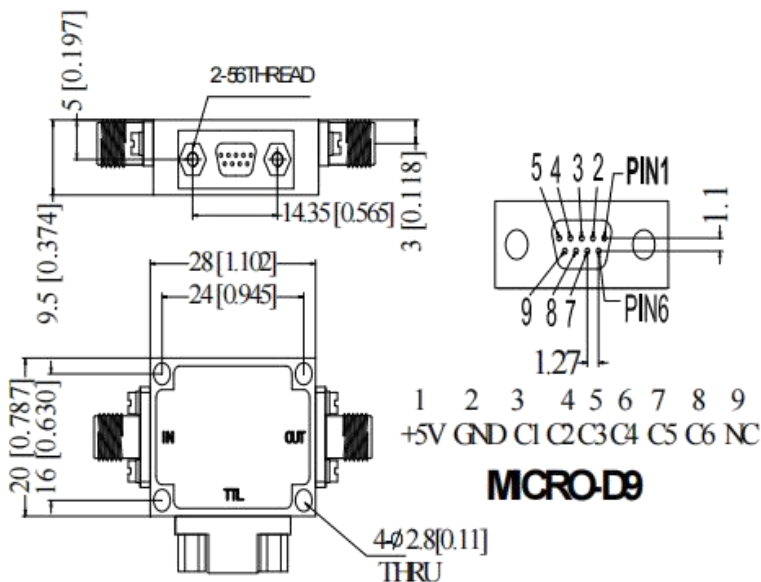
参数Parameter	指标 Value	单位Units
输入输出接口Input /Output Connector	SMA Female	
DC和控制接口DC and control interface	MICRO-D9	
尺寸 Size	/	mm
重量 Weight	/	g

绝对最大值 Absolute Maximum Ratings:

参数Parameter	指标 Value
供电偏置电压 Supply Bias Voltage	+5V/0V
输入功率 RF Input Power	30 dBm
ESD灵敏度 ESD sensitivity (HBm)	Class 0, passed 150V

外形尺寸Outline Drawing:

Unit: mm(Inches)



真值表Truth Table

真值表Truth Table						
Control Voltage Input						Phase Shift (Degree)
C6	C5	C4	C3	C2	C1	
0	0	0	0	0	0	Reference
0	0	0	0	0	1	5.625
0	0	0	0	1	0	11.25
0	0	0	1	0	0	22.5
0	0	1	0	0	0	45
0	1	0	0	0	0	90
1	0	0	0	0	0	180
1	1	1	1	1	1	355

温度环境 Environmental Conditions:

参数Parameter	Min.	Typ.	Max.	单位Units
操作温度 Operating Temperature	-45		+85	℃
存储温度 Non-operating Temperature	-55		+125	℃
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 11msc 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
TLDP12G18G-360-6	6-Bit Digital Phase Shifter,12-18GHz,SMA(F)	Rev.1.1