

Model:TLDP15G17G-360-8

8-Bit Digital Phase Shifter 15-17GHz

Feature:

- Ultra Wide Band: 15-17GHz
- Phase Shift Range: 360°
- 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	15-17			GHz
插损 Insertion Loss		12	15	dB
输入驻波 Input VSWR		1.8	2.0	:1
输出驻波 Output VSWR		1.8	2.0	:1
移相范围 Phase Shift Range		360		°
相位精度 Phase accuracy		±5		°
耐功率 Power Handling			+15	dBm
直流电压 DC Voltage		±12		V DC
直流电流 DC Supply Current		100		mA
控制位数 Number of Bits		8		Bit

机械特性 Mechanical :

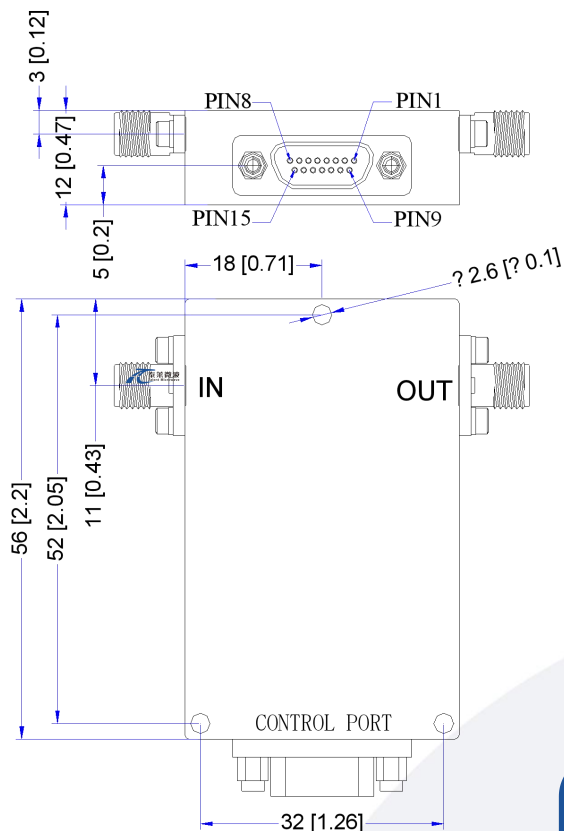
参数Parameter	指标 Value	单位Units
输入输出接口Input /Output Connector	SMA Female	
DC和控制接口DC and control interface	J30J-15ZK	
尺寸 Size	/	mm
重量 Weight	/	g

绝对最大值 Absolute Maximum Ratings:

参数Parameter	指标 Value
供电偏置电压 Supply Bias Voltage	TBD
输入功率 RF Input Power	15 dBm
ESD灵敏度 ESD sensitivity (HBm)	Class 0, passed 150V

外形尺寸Outline Drawing:

Unit: mm(Inches)



引脚 Pin #	功能Function
1-8	C1-C8
9-11	NC
12-13	12V
14-15	GND



OBSERVE PRECAUTIONS
ELECTROSTATIC SENSITIVE
DEVICES

Truth Table

TTL Control Input								Phase ShiftRFin - RFout
Bit1	Bit2	Bit3	Bit4	Bit5	Bit6	Bit7	Bit8	
0	0	0	0	0	0	0	0	Reference
1	0	0	0	0	0	0	0	-1.406°
0	1	0	0	0	0	0	0	-2.812°
0	0	1	0	0	0	0	0	-5.625°
0	0	0	1	0	0	0	0	-11.25°
0	0	0	0	1	0	0	0	-22.5°
0	0	0	0	0	1	0	0	-45°
0	0	0	0	0	0	1	0	-90°
0	0	0	0	0	0	0	1	-180°
1	1	1	1	1	1	1	1	-354.375°

Low(0)=0~0.8V High(1)=2~5V

温度环境 Environmental Conditions:

参数Parameter	Min.	Typ.	Max.	单位Units
操作温度 Operating Temperature	-25		+85	°C
存储温度 Non-operating Temperature	-55		+125	°C
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
TLDP15G17G-360-8	8-Bit Digital Phase Shifter,15-17GHz,360°,SMA	Rev.1.1