

Model:TLDP2G7G-360-6

6-Bit Digital Phase Shifter 2-7GHz

Feature:

- Frequency Range: 2-7GHz
- High Phase Shift Accuracy
- High Phase Shift Range
- Low Phase Error

电气特性 Electrical Specifications:

参数Parameter	Min	Typ	Max	单位Units
频率范围 Frequency range	2-7			GHz
移相范围 Phase Range		360		°
最小步进 Lesat Significant Bit(LSB)		5.625		°
插损 Insertion Loss		12		dB
输入驻波 Input VSWR		1.8		:1
输出驻波 Output VSWR		1.8		:1
相位精度 Phase accuracy		±4		°
耐功率 Power Handling			27	dBm
移相切换时间 Switching Time		20		ns
直流电压 DC Voltage		+5		V DC
直流电流 DC Supply Current		20		mA
控制位数 Number of Bits		6		Bit
阻抗 Impedance	50			Ohms

机械特性 Mechanical Specifications:

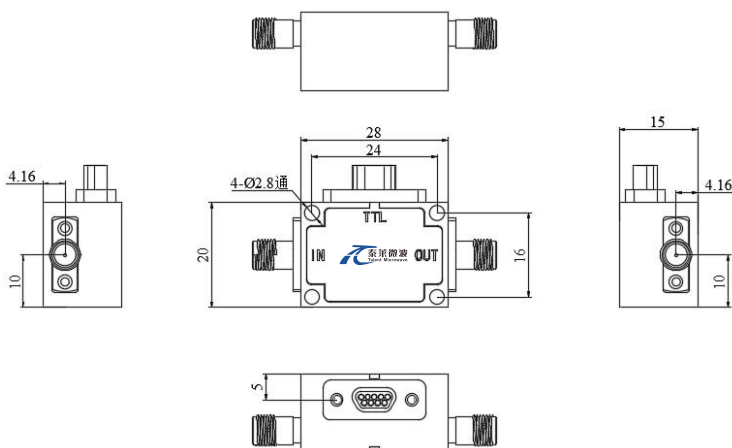
参数Parameter	指标 Value	单位Units
输入/输出接口 Input /Output Connector	SMA Female/SMA Female	
DC和控制接口 DC and control interface	J30J-9ZKP	
尺寸 Size	28*20*15	mm
重量 Weight	/	g

绝对最大值 Absolute Maximum Ratings:

参数Parameter	指标 Value
控制电压 Control Voltage Range	+5V (±5%)
耐受功率 RF Input Power No damage	27 dBm
ESD灵敏度 ESD sensitivity (HBm)	Class 0, passed 150V

外形尺寸Outline Drawing:

Unit: mm



真值表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

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

Note: +5V is "1"
0V is "0"

温度环境 Environmental Conditions:

参数Parameter	Min	Typ	Max	单位Units
操作温度 Operating Temperature	-45		+85	°C
存储温度 Non-operating Temperature	-55		+155	°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
TLDP2G7G-360-6	6-Bit Digital Phase Shifter,2-7GHz,SMA Female	Rev.1.1