

Model: TLDP8G12G-360-6
**6-Bit Digital Phase Shifter
8-12GHz**
Feature:

- Ultra Wide Band: 8-12GHz
- 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	8-12			GHz
插损 Insertion Loss		8		dB
输入驻波 Input VSWR		1.8		:1
输出驻波 Output VSWR		1.8		:1
移相范围 Phase Shift Range		360		°
相位精度 Phase accuracy		±4		°
耐功率 Power Handling			23	dBm
幅度平衡 Amplitude Balance		±0.5		dB
切换速度 Switching speed		100		ns
直流电压 DC Voltage		+5		V DC
直流电流 DC Supply Current		30		mA
控制位数 Number of Bits		6		Bit

机械特性 Mechanical :

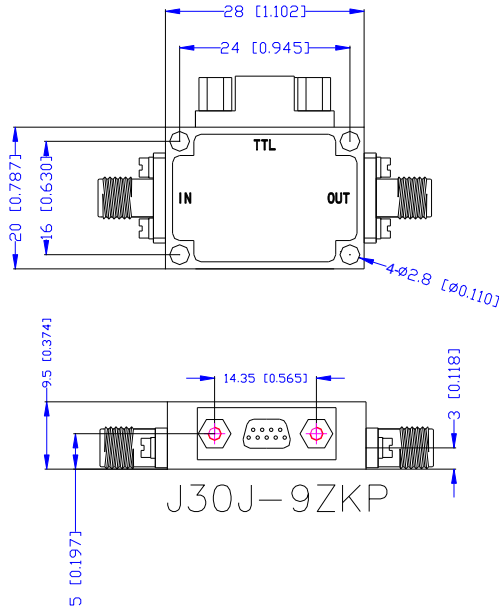
参数Parameter	指标 Value	单位Units
输入输出接口 Input /Output Connector	SMA Female	
DC和控制接口 DC and control interface	J30J-9ZKP	
尺寸 Size	28*20*19.5	mm
重量 Weight	55	g

绝对最大值 Absolute Maximum Ratings:

参数Parameter	指标 Value
供电偏置电压 Supply Bias Voltage	+5V (±5%)
输入功率 RF Input Power	23 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

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	1-6	7	8	9
功能Function	Bit1-Bit6	+5V	NC	GND

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		+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
TLDP8G12G-360-6	6-Bit Digital Phase Shifter,8-12 GHz,SMA	Rev.1.1