

Model: TLDA0.1G40G-120-10
Digital Attenuator
0.1-40 GHz, 10-Bit, 0.25 dB LSB, 126.25 dB Range
Feature:

- Ultra Wide Band: 0.1-40GHz
- 10-Bit, 0.25 dB LSB, 126.25 dB Range
- Low Insertion Loss
- High Attenuator Accuracy

电气特性 Electrical:

参数Parameter	Min.	Typ.	Max.	单位Units
频率范围 Frequency range	0.1-40			GHz
插损 Insertion Loss		30		dB
衰减范围 Attenuation Range	126.25			dB
控制位数 Control Bit TTL	10			Bit
衰减步进 Attenuation Step	0.25			dB
切换速度 Switch Speed			100	ns
输入驻波 Input VSWR		1.8		:1
输出驻波 Output VSWR		1.8		:1
最大输入功率 Input Max Power	27			dBm
直流电压 DC Voltage	+5			V DC
直流电流 DC Supply Current			80	mA
阻抗 Impedance	50			Ohms

机械特性 Mechanical :

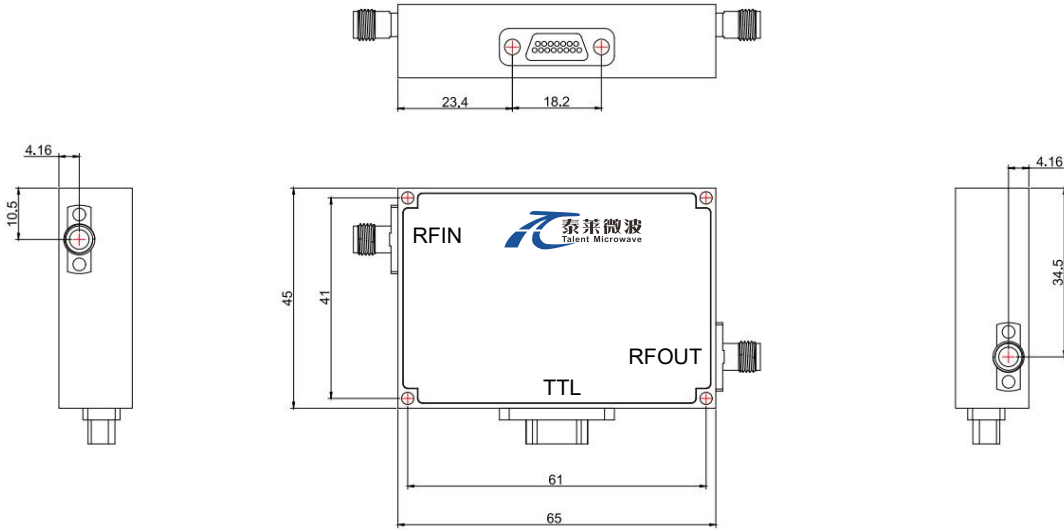
参数Parameter	指标 Value	单位Units
输入输出接口 Input /Output Connector	2.92 Female	
DC和控制接口 DC and control interface	J30J-15ZKP	
尺寸 Size		mm
重量 Weight	/	g

绝对最大值 Absolute Maximum Ratings:

参数Parameter	指标 Value
供电偏置电压 Supply Bias Voltage	+5V (±5%)
输入功率 RF Input Power	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
V1	V2	V3	V4	V5	V6	V7	V8	V9	V10	
0	0	0	0	0	0	0	0	0	0	0dB
1	0	0	0	0	0	0	0	0	0	0.25dB
0	1	0	0	0	0	0	0	0	0	0.5dB
0	0	1	0	0	0	0	0	0	0	1dB
0	0	0	1	0	0	0	0	0	0	2dB
0	0	0	0	1	0	0	0	0	0	4dB
0	0	0	0	0	1	0	0	0	0	8dB
0	0	0	0	0	0	1	0	0	0	16dB
0	0	0	0	0	0	0	1	0	0	31.5dB
0	0	0	0	0	0	0	1	1	0	63dB
0	0	0	0	0	0	0	1	1	1	94.5dB
1	1	1	1	1	1	1	1	1	1	126.25dB

注: 1: +5V

J30J-15ZKP			
引脚Pin#	功能Function	引脚Pin#	功能Function
1	V1	9	V9
2	V2	10	V10
3	V3	11	NC
4	V4	12	NC
5	V5	13	NC
6	V6	14	GND
7	V7	15	+5V
8	V8		

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
TLDA0.1G40G-120-10	10-Bit Digital Digital Attenuator,0.1-40GHz,2.92 Female	Rev.1.1