

ModelTURDA0.1G40G-63.710

Digital Attenuator
0.1-40 GHz, 10-Bit, 0.1 dB LSB,63.7 dB Range

- Feature:
- Ultra Wide Band: 0.1-40GHz
 - 10-Bit, 0.1 dB LSB, 63.7 dB Range
 - Low Insertion Loss
 - High Attenuator Accuracy

电气特性 Electrical Specifications:

参数Parameter	Min	Typ	Max	单位Units
频率范围 Frequency range	0.1-40			GHz
插损 Insertion Loss		20		dB
衰减范围 Attenuation Range	63.7			dB
控制位数 Control Bit TTL	10			Bit
衰减步进 Attenuation Step	0.1			dB
切换速度 Switch Speed		10		ms
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	25			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 Specifications:

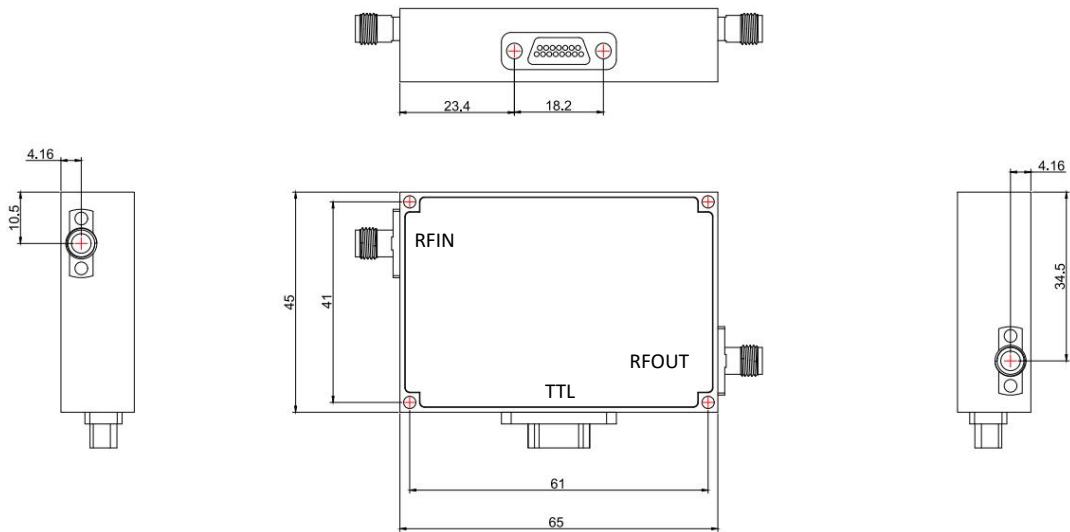
参数 Parameter	指标 Value	单位Units
输入/输出接口 Input /Output Connector	2.92mm Female/2.92mm Female	
DC控制接口 DC control interface	J30J-15ZKP	
尺寸 Size	/	mm
重量 Weight	/	g

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	25 dBm

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	0.1dB
0	1	0	0	0	0	0	0	0	0	0.2dB
0	0	1	0	0	0	0	0	0	0	0.4dB
0	0	0	1	0	0	0	0	0	0	0.5dB
0	0	0	0	1	0	0	0	0	0	1dB
0	0	0	0	0	1	0	0	0	0	2dB
0	0	0	0	0	0	1	0	0	0	4dB
0	0	0	0	0	0	0	1	0	0	8dB
0	0	0	0	0	0	0	0	1	0	16dB
0	0	0	0	0	0	0	0	0	1	31.5dB
1	1	1	1	1	1	1	1	1	1	63.7dB

加电接口 Supply Conector(J30J-15ZKP):

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	℃
存储温度 Non-operating Temperature	-55		+125	℃
相对湿度 Relative humidity		95		%
海拔 Altitude	10,000			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
TURDA0.1G40G-63.710	10-Bit Digital Digital Attenuator,0.1-40GHz,2.92mm Female	Rev.1.1