

Model TURDA1G40G-626

Digital Attenuator
1-40 GHz, 6-Bit, 1 dB LSB,62 dB Range

- Feature:
- Ultra Wide Band: 1-40GHz
 - 6-Bit, 1 dB LSB, 62 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	1-40			GHz
插损 Insertion Loss			13	dB
衰减范围 Attenuation Range			62	dB
衰减平坦度 Attenuation Flatness			±2.5	dB
控制位数 Control Bit TTL	6			Bit
最小有效位 Least Significant Bit	1			dB
切换速度 Switch Speed			500	ns
输入驻波 Input VSWR			2.5	:1
输出驻波 Output VSWR			2.5	:1
最大输入功率 Input Max Power	23			dBm
直流电压 DC Voltage		5		V DC
直流电流 DC Supply Current		40		mA
阻抗 Impedance	50			Ohms

机械特性 Mechanical Specifications:

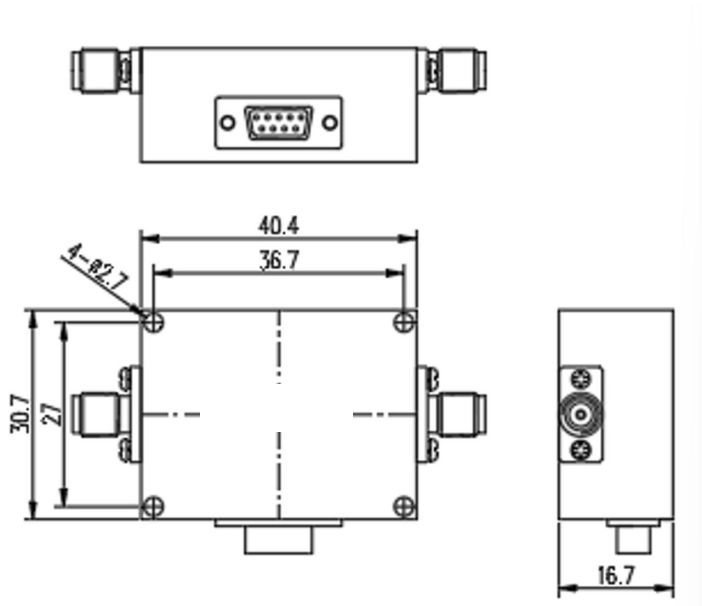
参数 Parameter	指标 Value	单位Units
输入/输出接口 Input /Output Connector	2.92mm Female/2.92mm Female	
DC接口 DC Connector	MICRO-D9 Female	
尺寸 Size	40.4*30.7*16.7	mm
重量 Weight	/	g

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%)

外形尺寸 Outline Drawing:

Unit: mm



真值表Truth Table

TTL Control Input						Attenuation
Bit 6	Bit 5	Bit 4	Bit 3	Bit 2	Bit 1	
0	0	0	0	0	0	Reference
0	0	0	0	0	1	1dB
0	0	0	0	1	0	2dB
0	0	0	1	0	0	4dB
0	0	1	0	0	0	8dB
0	1	0	0	0	0	16dB
1	0	0	0	0	0	31dB
1	1	1	1	1	1	62dB

MICRO-D9

引脚Pin#	功能Function
1	+5 V
2	GND
3~8	Bit1~Bit6
9	NC

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
TURDA1G40G-626	6-Bit Digital Digital Attenuator,1-40GHz,2.92mm Female	Rev.1.1