

TURLA2.2G2.3G-466

TURLA2.2G2.3G-466 is a low noise amplifier with a typical small signal gain of 46 dB and a nominal noise figure of 0.6 dB across the frequency range of 2.2 to 2.3 GHz. The DC power requirement for the amplifier is +12 V DC/95 mA. The input and output port configuration offers coax adapter structure with N female.

Features:

- Frequency range: 2.2-2.3GHz
- Gain: 46dB Typ
- Noise Figure: 0.6dB Typ
- Good Power and Gain Flatness
- 50 Ohm Matched Input / Output

Applications:

- Communication systems

电气特性 Electrical Characteristics:

参数 Parameter		Min	Typ	Max	单位 Units
频率范围 Frequency range		2.2		2.3	GHz
小信号增益 Small Signal Gain		45.5	46		dB
噪声系数 Noise Figure			0.6		dB
线性输出功率 Output P1dB		5	7		dBm
饱和输出功率 Output Psat			8		dBm
增益带外抑制 Gain Rejection	@DC~2.12GHz	15			dBc
	@2.4~2.5GHz	15			dBc
输入驻波 Input VSWR			1.4		:1
输出驻波 Output VSWR			1.4		:1
直流电压 DC Voltage		+11	+12	+24	V DC
直流电流 DC Supply Current			95		mA
阻抗 Impedance		50			Ohms

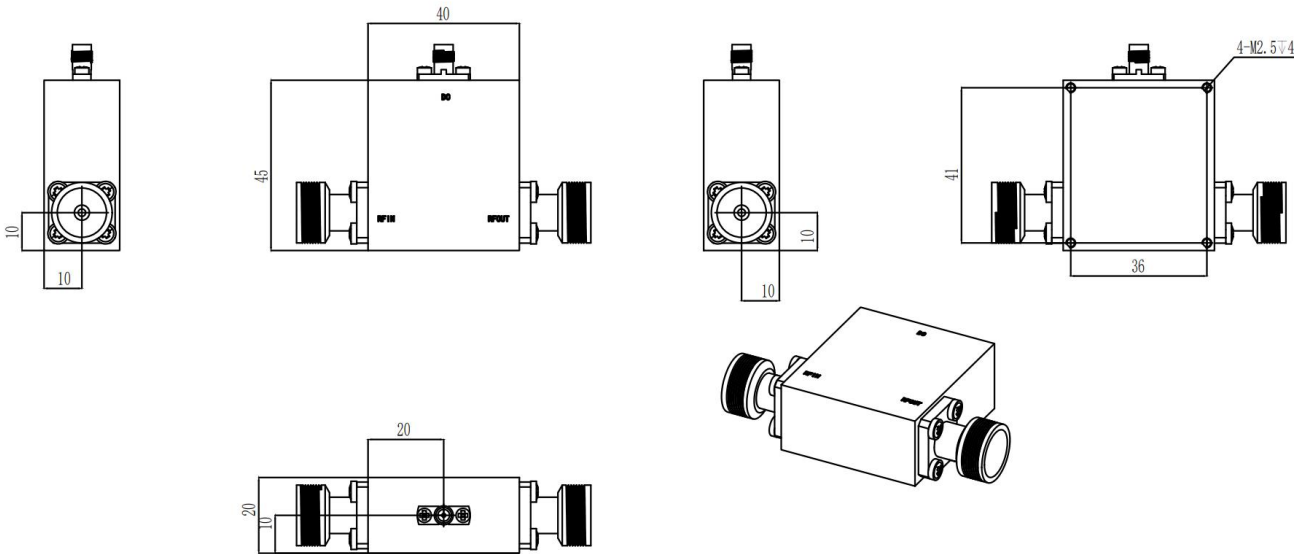
机械特性 Mechanical Specifications:

参数 Parameter	指标 Value	单位 Units
输入/输出接口 Input /Output Connector	N Female/N Female	

绝对最大值 Absolute Maximum Ratings:

参数 Parameter	指标 Value
供电偏置电压 Supply Bias Voltage	+24 V
输入功率 RF Input Power	TBD
ESD灵敏度 ESD sensitivity (HBm)	Class 0, passed 150V

外形图 Outline Drawing: Unit:mm





ESD Protection: Strictly adhere to ESD precautions to prevent electrostatic damage.

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			

订货信息 Ordering Information:

标准型号 Base Number	描述 Description	版本号 Revision
TURLA2.2G2.3G-466	Low Noise Amplifier, 2.2-2.3GHz, Noise Figure:0.6dB, Gain:46 dB,P1dB:7dBm,+12V DC,Without Heatsink	Rev.1.1
TURLA2.2G2.3G-466	Low Noise Amplifier, 2.2-2.3GHz, Noise Figure:0.6dB, Gain:46 dB,P1dB:7dBm,+12V DC,With Heatsink	Rev.1.1