

TURLA4G8G-3520

TURLA4G8G-3520 is a low noise amplifier with a typical small signal gain of 35 dB and a nominal noise figure of 2.0 dB across the frequency range of 4 to 8 GHz. The DC power requirement for the amplifier is +15 V DC/320 mA. The input and output port configuration offers coax adapter structure with SMA female.

Features:

- Frequency range: 4-8GHz
- Gain: 35dB Typ
- Noise Figure: 2.0dB 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	4		8	GHz
小信号增益 Small Signal Gain	34	35		dB
噪声系数 Noise Figure		2	2.5	dB
线性输出功率 Output P1dB	25.5	27		dBm
饱和输出功率 Output Psat	26.5	28		dBm
输入驻波 Input VSWR		1.8		:1
输出驻波 Output VSWR		1.8		:1
监测功率阈值 Monitor Power Threshold(Control NC)		20		dBm
监测输出TTL Monitor Output TTL		0/+3.3		V
直流电压 DC Voltage	+12	+15	+16	V DC
直流电流 DC Supply Current		320		mA
阻抗 Impedance	50			Ohms

机械特性 Mechanical Specifications:

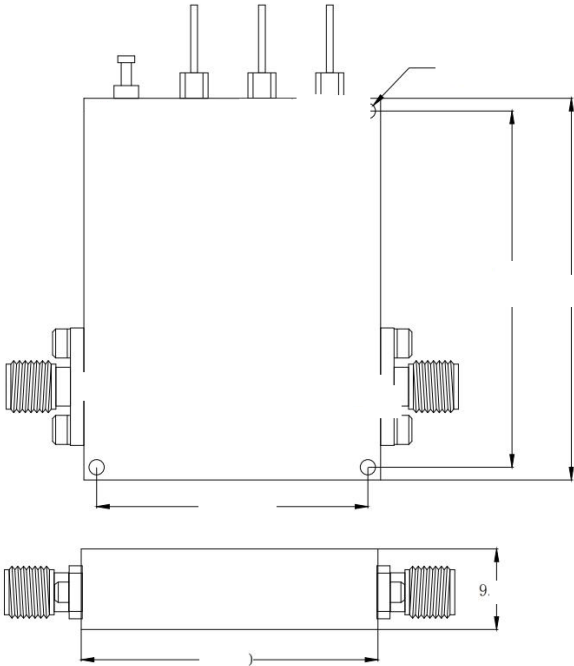
参数 Parameter	指标 Value	单位 Units
输入/输出接口 Input /Output Connector	SMA Female/SMA Female	
直流偏置 DC Bias	Solder Pin	
尺寸 Size	35*45*9.5	mm

绝对最大值 Absolute Maximum Ratings:

参数 Parameter	指标 Value
供电偏置电压 Supply Bias Voltage	+16 V
输入功率 RF Input Power	+10 dBm
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

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 Base Number	描述 Description	版本号 Revision
TURLA4G8G-3520	Low Noise Amplifier, 4-8GHz, Noise Figure:2.0dB, Gain:35dB,P1dB:27dBm,+15V DC,Without Heatsink	Rev.1.1
TURLA4G8G-3520S	Low Noise Amplifier, 4-8GHz, Noise Figure:2.0dB, Gain:35dB,P1dB:27dBm,+15V DC,With Heatsink	Rev.1.1