



Low Noise Amplifier

15-45GHz /2.5dB NF/22dB Gain/16.5 dBm P1dB

TLLA15G45G-22-25-LC

TURLA15G45G-2225LC is a low noise amplifier with small signal gain of 22 dB and noise figure of 2.5 dB across the frequency range of 15 to 45 GHz. The DC power requirement for the amplifier is +5 V DC/90 mA. The input and output port configuration offers coax adapter structure with 2.92mm female.

Features:

- Frequency range:15-45GHz
- Gain: 22dB Typ
- Noise Figure: 2.5dB 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	15		45	GHz
小信号增益 Small Signal Gain		22		dB
增益平坦度 Gain Flatness		±2		dB
噪声系数 Noise Figure	2	2.5	4	dB
输出1dB压缩点 Output P-1 dB		16.5		dBm
输入驻波 Input VSWR		2.0		:1
输出驻波 Output VSWR		2.0		:1
直流电压 DC Voltage		+5		V DC
直流电流 DC Supply Current		90		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	

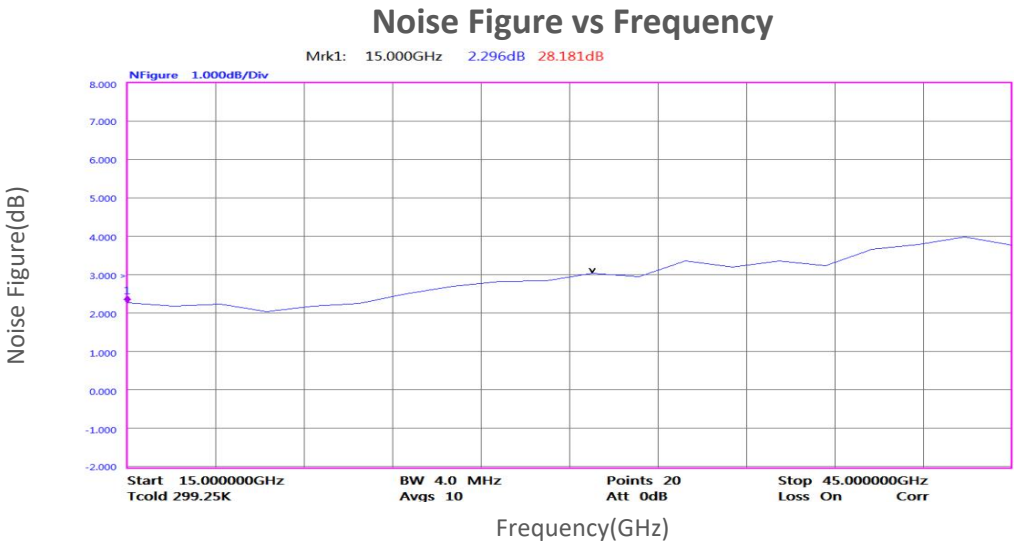
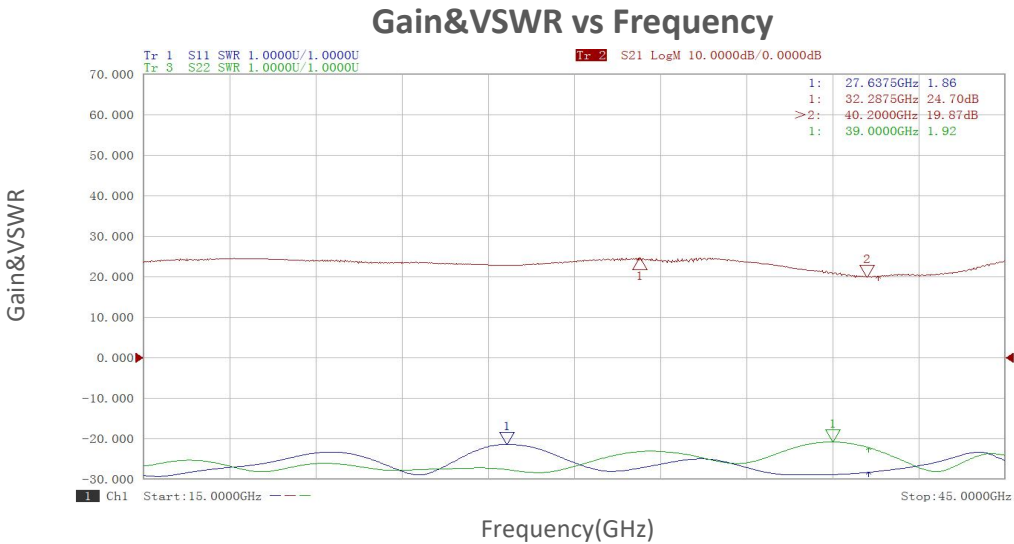
参数 Parameter	指标 Value
供电偏置电压 Supply Bias Voltage	+8 V
输入功率 RF Input Power	+17 dBm
ESD灵敏度 ESD sensitivity (HBm)	Class 0, passed 150V

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		10,000		feet
震动 Shock / Vibration(MIL-STD-810F)	25g rms (15 degree 2KHz) endurance, 1 hour per axis			

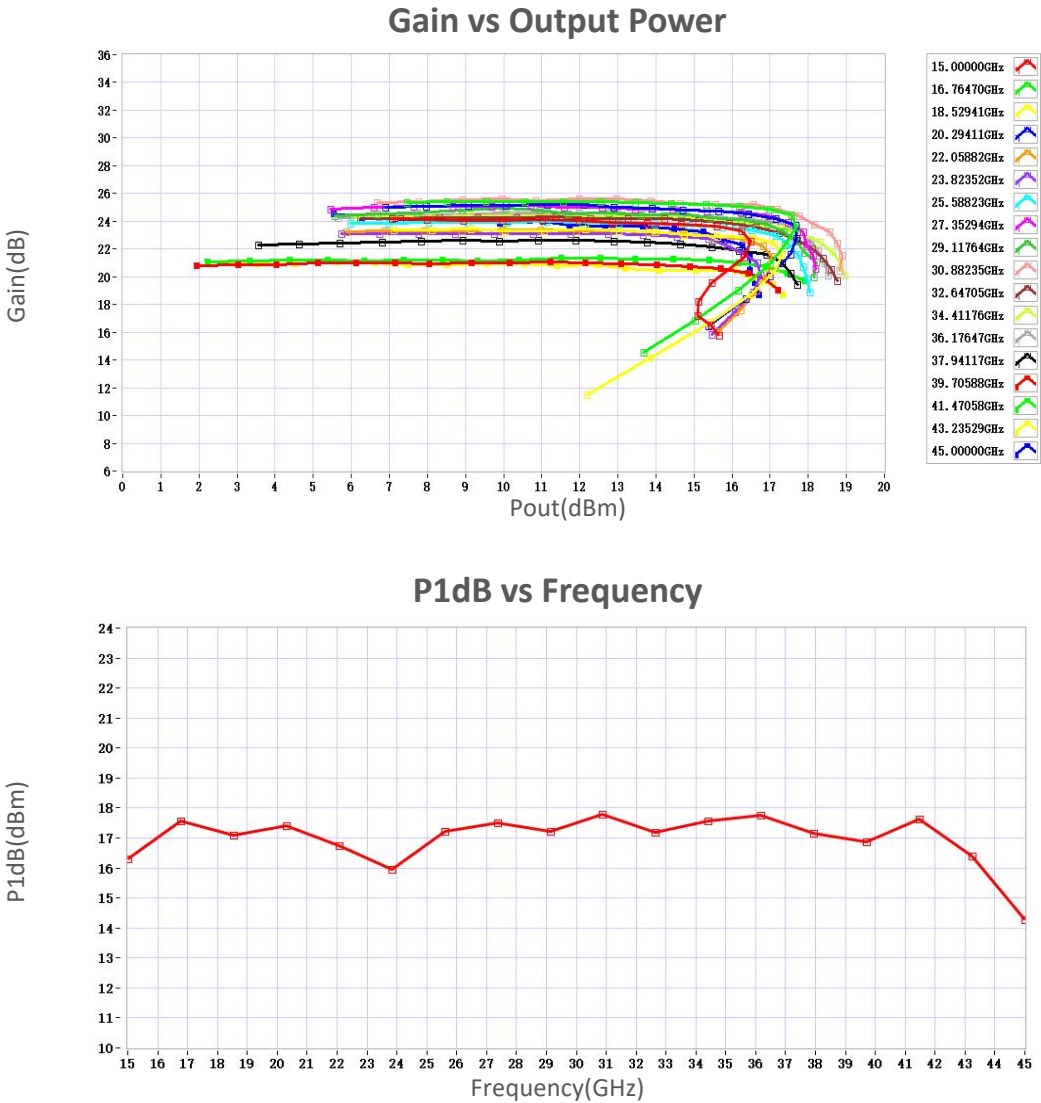
订货信息 Ordering Information:

标准型号 Base Number	描述 Description	版本号 Revision
TURLA15G45G-2225LC	Low Noise Amplifier, 15-45GHz, Noise Figure:2.5dB, Gain:22 dB,P1dB:16.5dBm,+5V DC,Without Heatsink	Rev.1.0

典型曲线 Typical Performance Data:



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Note: Above data is for ref only, actual data may vary from unit to unit depending on operating environment and other factors like material lots etc.