

Low Noise Amplifier

10-67GHz/5.0dB NF/30dB Gain/13dBm P1dB

TLLA10G67G-30-50

TURLA10G67G-3050 is a low noise amplifier with a typical small signal gain of 30 dB and a nominal noise figure of 5.0 dB across the frequency range of 10 to 67 GHz. The DC power requirement for the amplifier is +12 V DC/300 mA. The input and output port configuration offers coax adapter structure with 1.85mm female.

Features:

- Frequency range: 10-67GHz
- Gain: 30dB Typ
- Noise Figure: 5.0dB 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	10		67	GHz
小信号增益 Small Signal Gain	28	30		dB
增益平坦度 Gain Flatness		±3		dB
噪声系数 Noise Figure		5	8	dB
线性输出功率 Output P1dB		13		dBm
输出三阶交调 Output IP3		25		dBm
输入驻波 Input VSWR		2		:1
输出驻波 Output VSWR		2		:1
直流电压 DC Voltage		+12	+13	V DC
直流电流 DC Supply Current		300		mA
阻抗 Impedance		50		Ohms

机械特性 Mechanical Specifications:

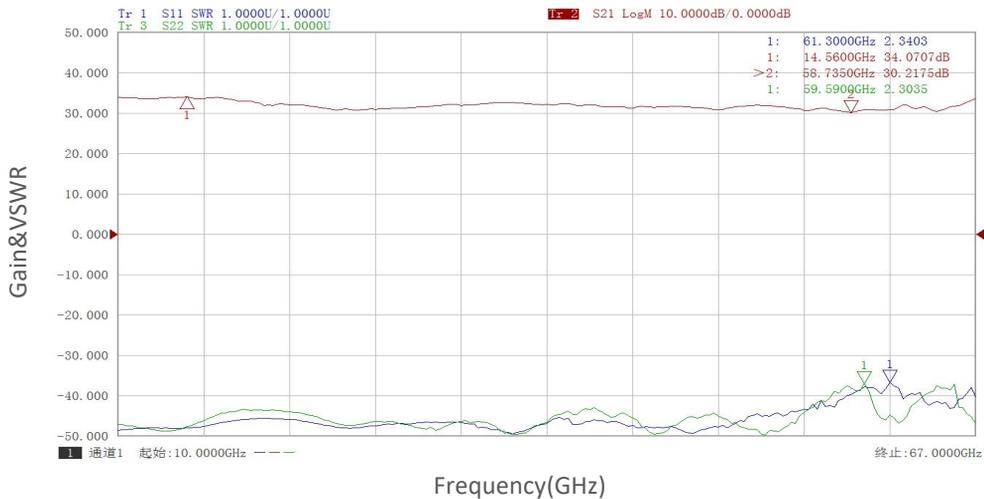
参数 Parameter	指标 Value	单位 Units
输入/输出接口 Input /Output Connector	1.85mm Female/1.85mmFemale	

订货信息 Ordering Information:

标准型号 Base Number	描述 Description	版本号 Revision
TURLA10G67G-3050	Low Noise Amplifier, 10-67GHz, Noise Figure:5.0dB, Gain:30dB,P1dB:13dBm,+12V DC,Without Heatsink	Rev.1.1
TURLA10G67G-3050 HS	Low Noise Amplifier, 10-67GHz, Noise Figure:5.0dB, Gain:30dB,P1dB:13dBm,+12V DC,With Heatsink	Rev.1.1

典型曲线 Typical Performance Data:

Gain&VSWR vs Frequency

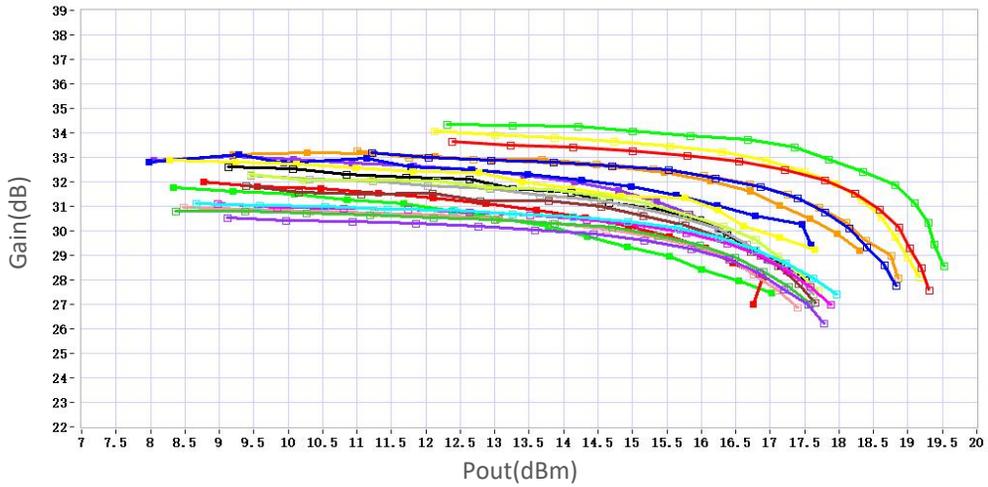


Noise Figure vs Frequency

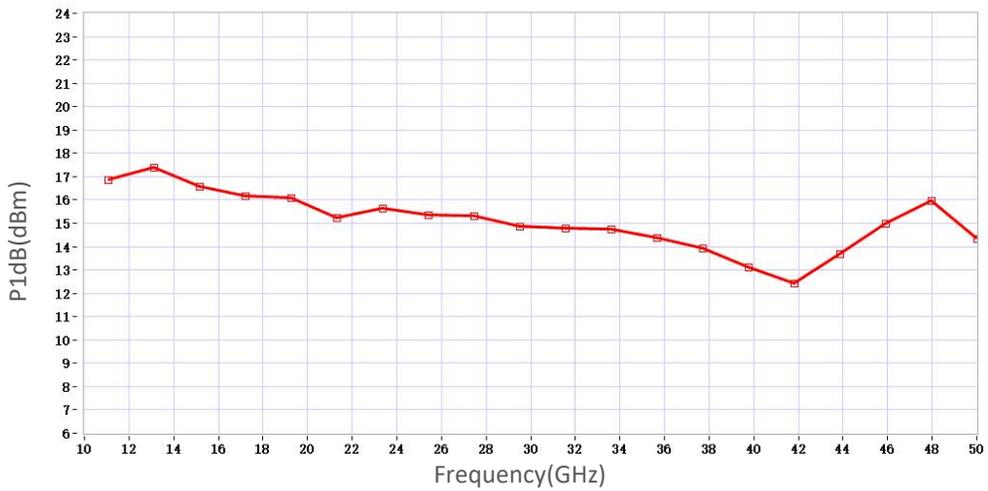
Noise Figure(dB)

典型曲线 Typical Performance Data:

Gain vs Output Power



P1dB vs Frequency



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.