Turpanic Co, Ltd
Email: johnny@turpanic.com
Mob/WeChat/WhatsApp: +8613088887527

TURLA50K40G-3850 is a low noise amplifier with a typical small signal gain of 38 dB and a nominal noise figure of 5.5 dB across the frequency range of 50 KHz to 40 GHz. The DC power requirement for the amplifier is +6 V DC/180 mA. The input and output port configuration offers coax adapter structure with 2.92mm female.

Features:

- Frequency range: 50KHz-40GHz
- Gain: 38dB Typ
- Noise Figure: 5.5dB 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		50KHz-40GHz		
小信号增益 Small Signal Gain	36	38		dB
增益平坦度 Gain Flatness		±2.5		dB
线性输出功率 Output P1dB		14		dBm
噪声系数 Noise Figure		5.5		dB
输入驻波 Input VSWR		1.8		:1
输出驻波 Output VSWR		1.8		:1
直流电压 DC Voltage		+6	+12	V DC
直流电流 DC Supply Current		180		mA
阻抗 Impedance		50		Ohms

机械特性 Mechanical Specifications:

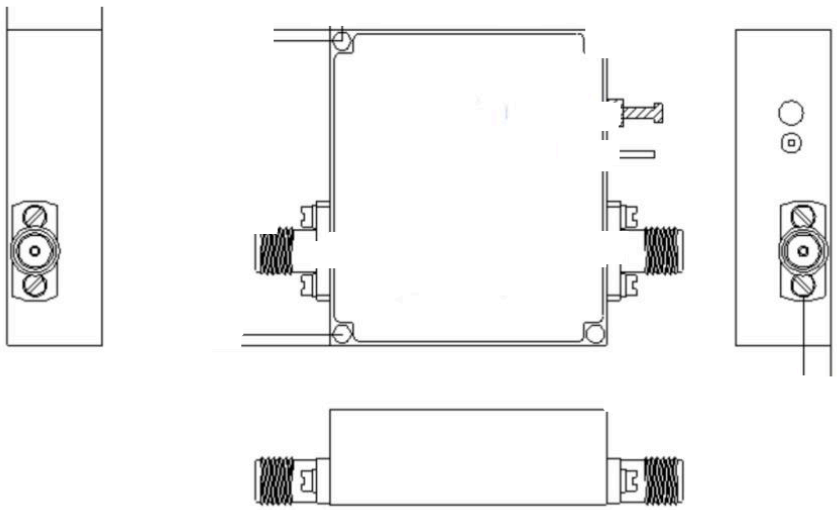
参数 Parameter	指标 Value	单位 Units
输入/输出接口 Input /Output Connector	2.92mm Female/2.92mm Female	
直流偏置 DC Bias	Solder Pin	

Turpanic Co, Ltd
Email: johnny@turpanic.com
Mob/WeChat/WhatsApp: +8613088887527

绝对最大值 Absolute Maximum Ratings:

参数 Parameter	指标 Value
供电偏置电压 Supply Bias Voltage	TBD
输入功率 RF Input Power	+5 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 damage.

温度环境 Environmental Conditions:

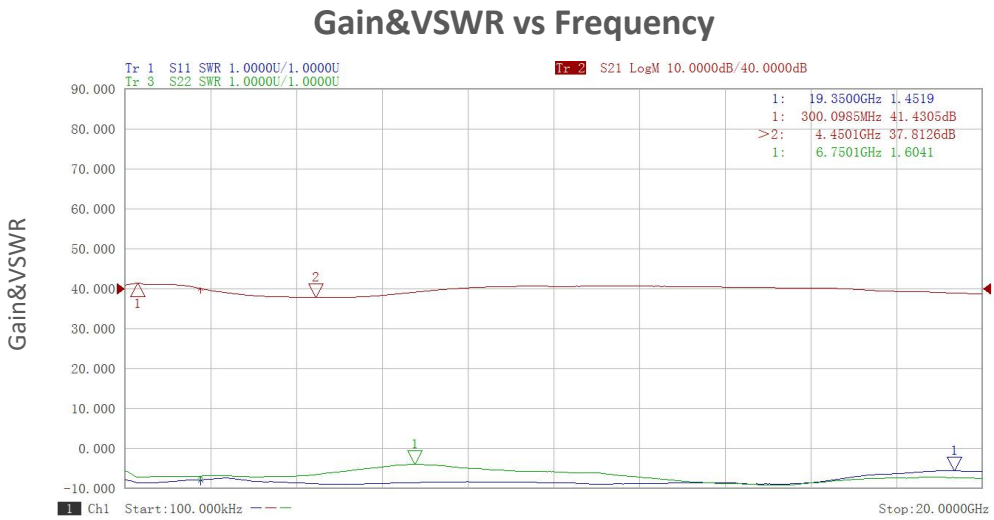
参数 Parameter	Min	Typ	Max	单位 Units
操作温度 Operating Temperature	-45		+85	℃
存储温度 Non-operating Temperature	-55		+125	℃
相对湿度 Relative humidity		95		%
海拔 Altitude		10,000		feet
震动 Shock / Vibration(MIL-STD-810F)	25g rms (15 degree 2KHz) endurance, 1 hour per axis			

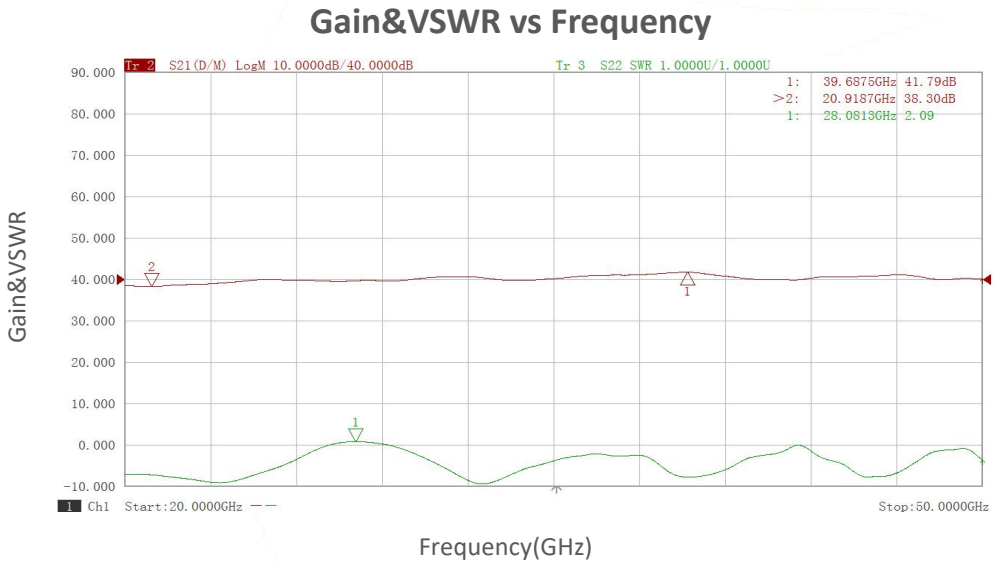
Turpanic Co, Ltd
Email: johnny@turpanic.com
Mob/WeChat/WhatsApp: +8613088887527

订货信息 Ordering Information:

标准型号 Base Number	描述 Description	版本号 Revision
TURLA50K40G-3850	Low Noise Amplifier, 50KHz-40GHz, Noise Figure:5.5dB, Gain:38 dB,P1dB:14dBm,+6V DC,Without Heatsink	Rev.1.1
TURLA50K40G-3850 HS	Low Noise Amplifier, 50KHz-40GHz, Noise Figure:5.5dB, Gain:38 dB,P1dB:14dBm,+6V DC,With Heatsink	Rev.1.1

典型曲线 Typical Performance Data:



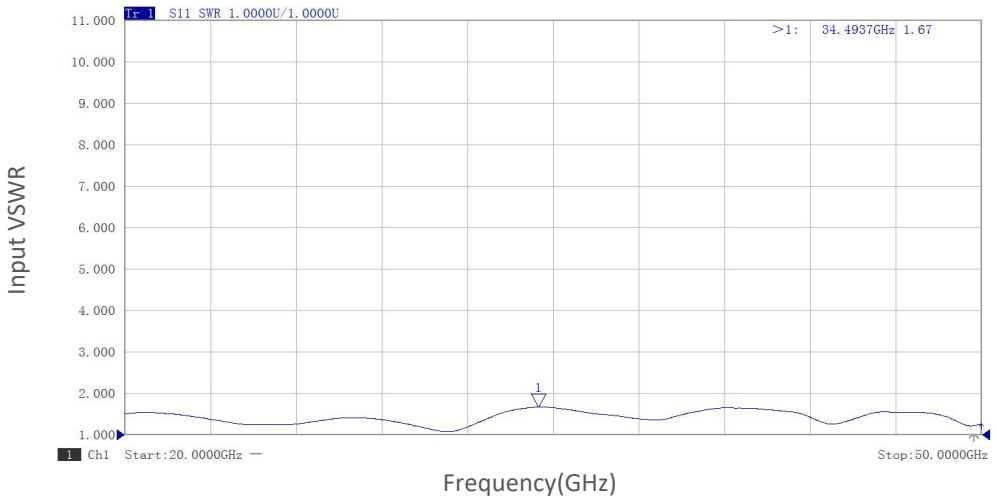


Note: Above data is for ref only, actual data may vary from unit to unit depending

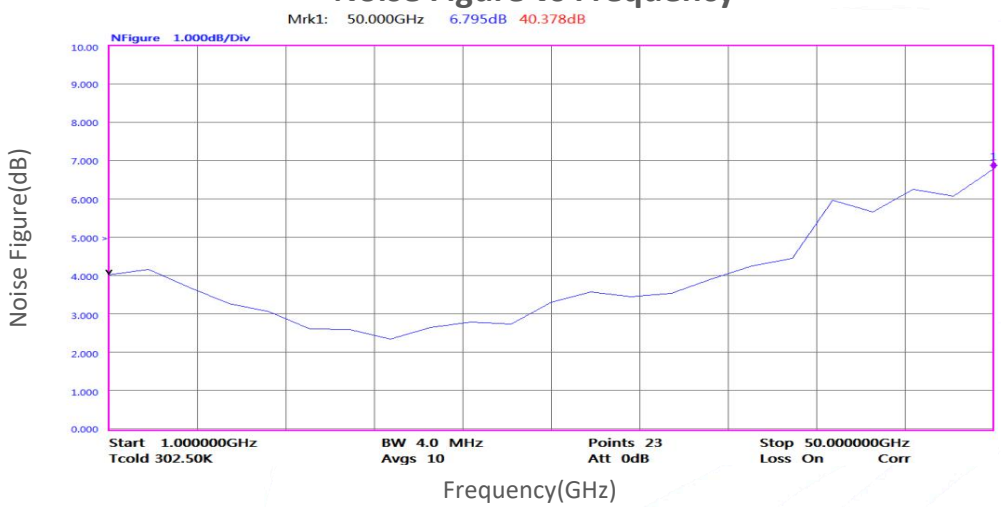
Turpanic Co, Ltd
Email: johnny@turpanic.com
Mob/WeChat/WhatsApp: +8613088887527

典型曲线 Typical Performance Data:

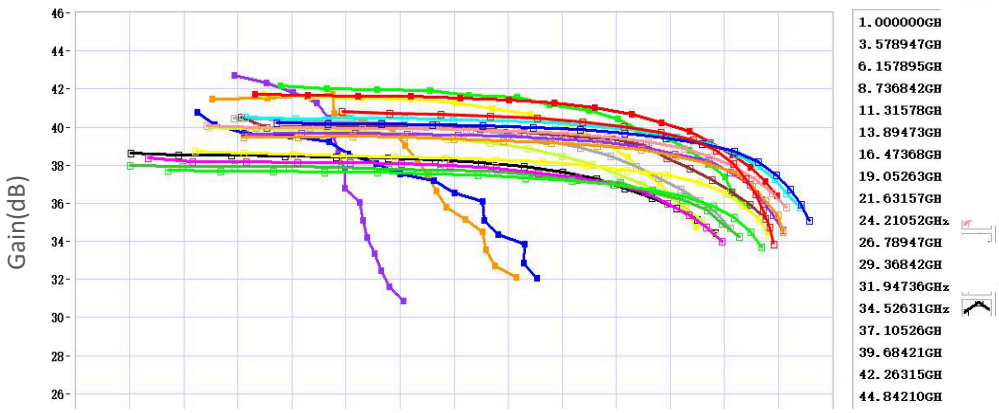
Input VSWR vs Frequency



Noise Figure vs Frequency

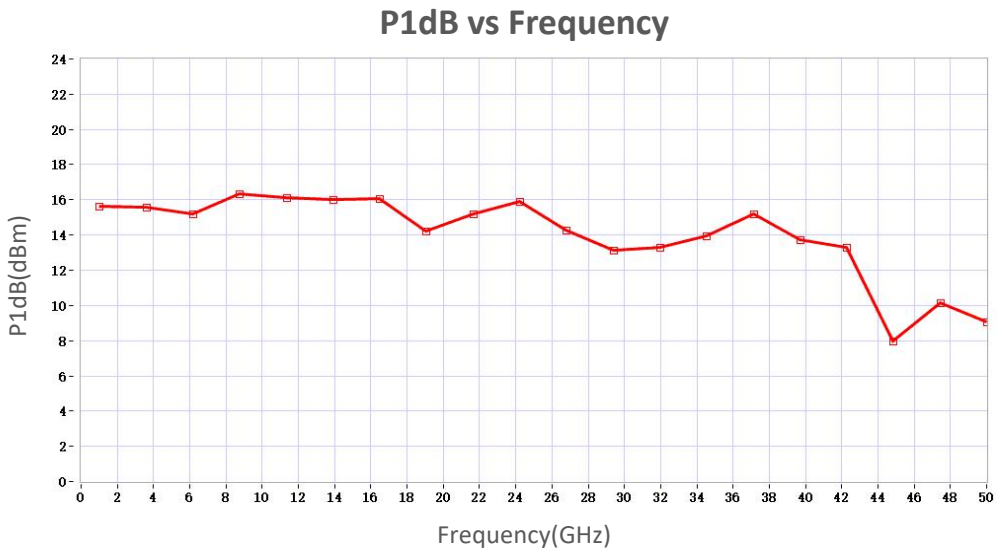


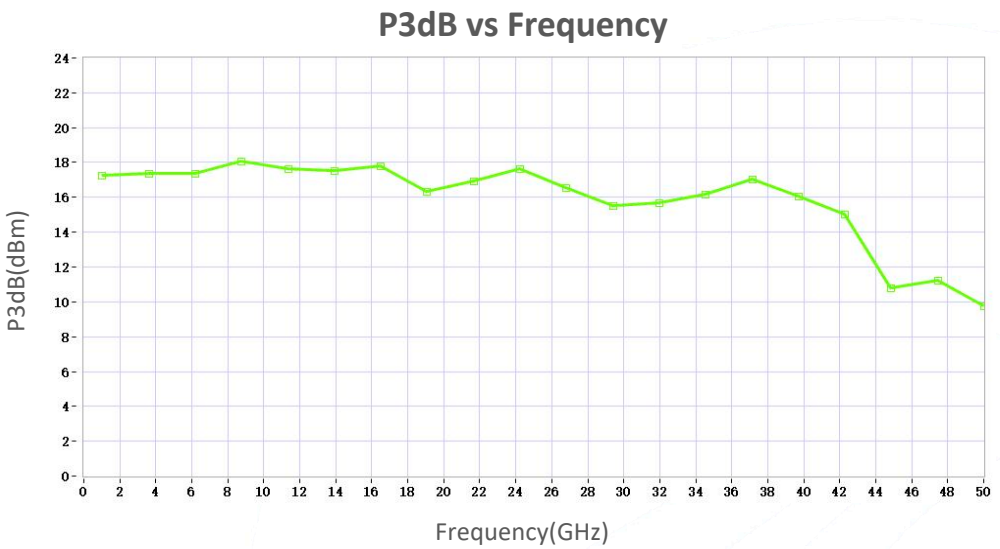
Gain vs Output Power



Turpanic Co, Ltd
Email: johnny@turpanic.com
Mob/WeChat/WhatsApp: +8613088887527

典型曲线 Typical Performance Data:





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.