

Power Amplifier

0.38-6GHz/35dB Gain/37 dBm Psat

TLPA0.38G6G-30-37

TURPA0.38G6G-3037 is a power amplifier with a minimum small signal gain of 35 dB and a nominal Psat of 37 dBm across the frequency range of 0.38 to 6 GHz. The DC power requirement for the amplifier is +30 VDC/2 A. The input and output port configuration offers coax adapter structure with SMA female.

Features:

- Frequency range: 0.38-6 GHz
- Gain: 35dB Min
- Output Power Psat: 37dBm Min
- Good Power and Gain Flatness
- 50 Ohm Matched Input / Output

Applications:

- Cellular
- PCN
- GSM
- ISM
- Lab Test

电气特性 Electrical Characteristics:

参数 Parameter	Min	Typ	Max	单位 Units
频率范围 Frequency range	0.38-6			GHz
小信号增益 Small Signal Gain	35			dB
增益平坦度 Gain Flatness		±2.5	±4	dB
线性输出功率 Output P1dB		35		dBm
饱和输出功率 Output Psat	37			dBm
杂散 Supurious		-60		dBc
谐波抑制 Harmonic		-15		dBc
输入驻波 Input VSWR		1.5	2.5	:1
直流电压 DC Voltage		30		V DC
直流电流 DC Supply Current		2		A
阻抗 Impedance	50			Ohms

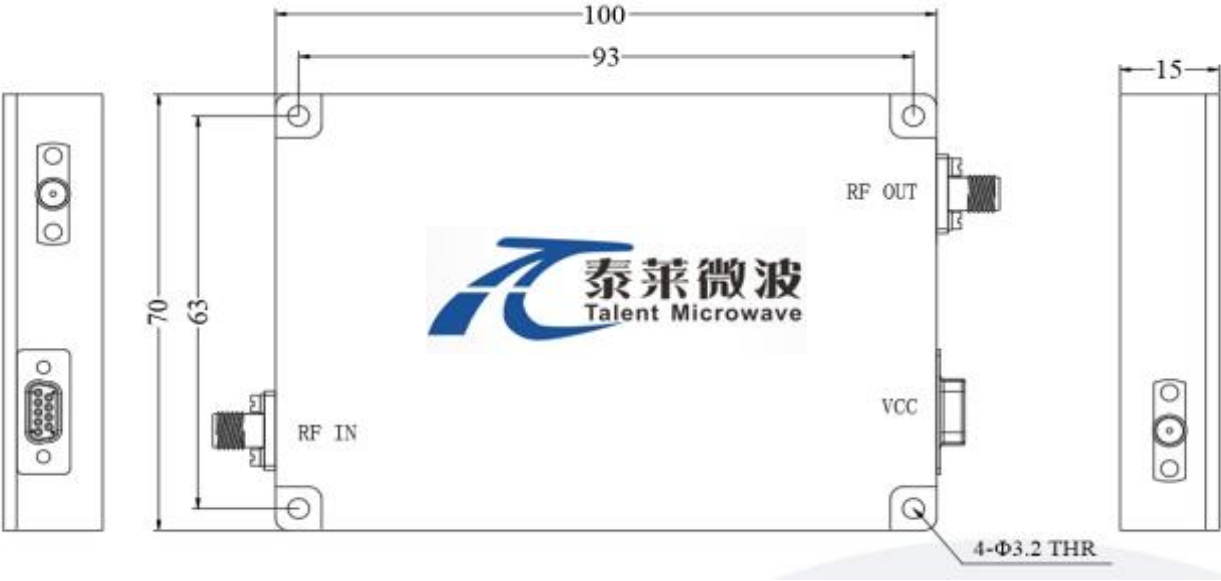
机械特性 Mechanical Specifications:

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	100*70*15	mm
重量 Weight	200	g

绝对最大值 Absolute Maximum Ratings:

参数 Parameter	指标 Value
供电偏置电压 Supply Bias Voltage	+32 V
输入功率 RF Input Power	+8 dBm
ESD灵敏度 ESD sensitivity (HBm)	Class 0, passed 150V

外形图 Outline Drawing: Unit:mm



温度环境 Environmental Conditions:

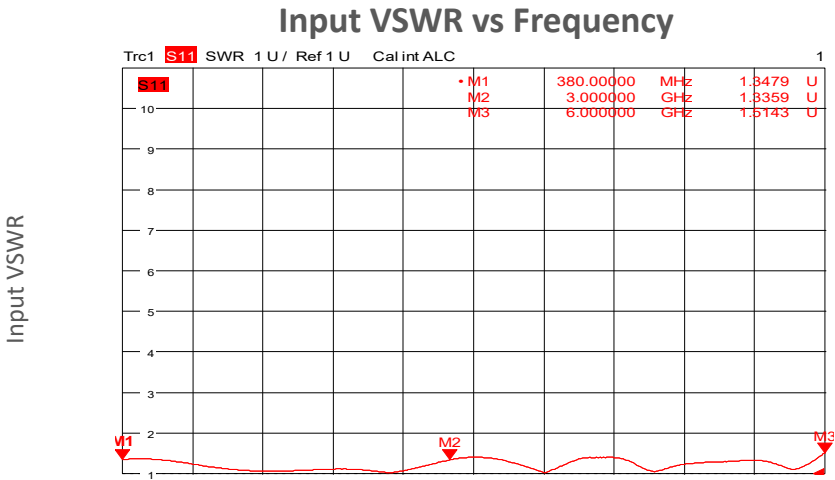
参数 Parameter	Min	Typ	Max	单位 Units
操作温度 Operating Temperature*	-40		+60	℃
存储温度 Non-operating Temperature*	-50		+70	℃
相对湿度 Relative humidity		95		%
海拔 Altitude	10,000			feet
震动 Shock / Vibration(MIL-STD-810F)	25g rms (15 degree 2KHz) endurance, 1 hour per axis			
冲击 Shock(non operating)	20G for 11msc half sin wave,3 axis both directions			

*Note: For a wider temperature range, please consult the manufacturer.

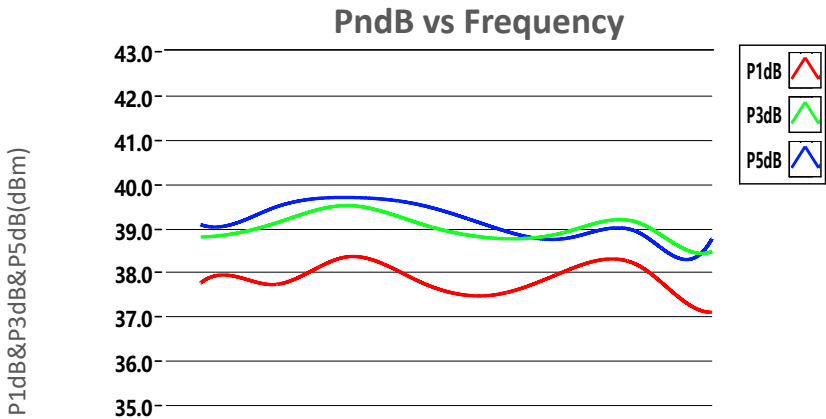
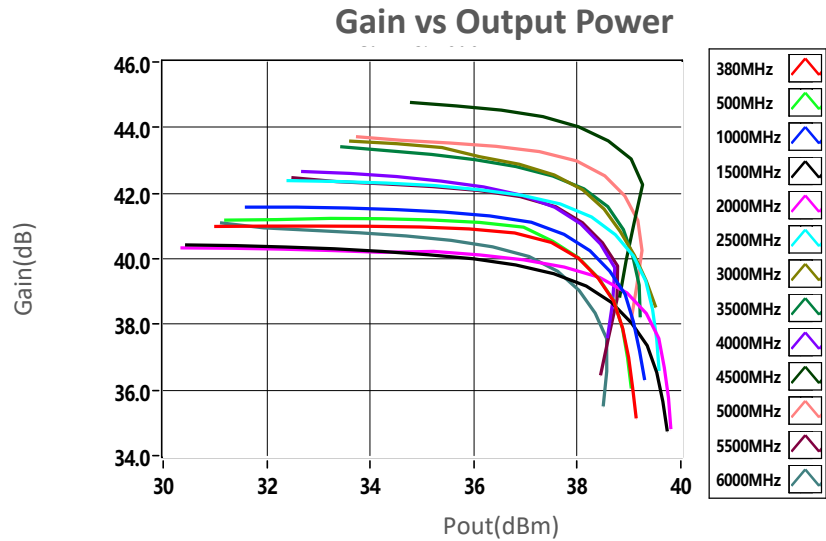
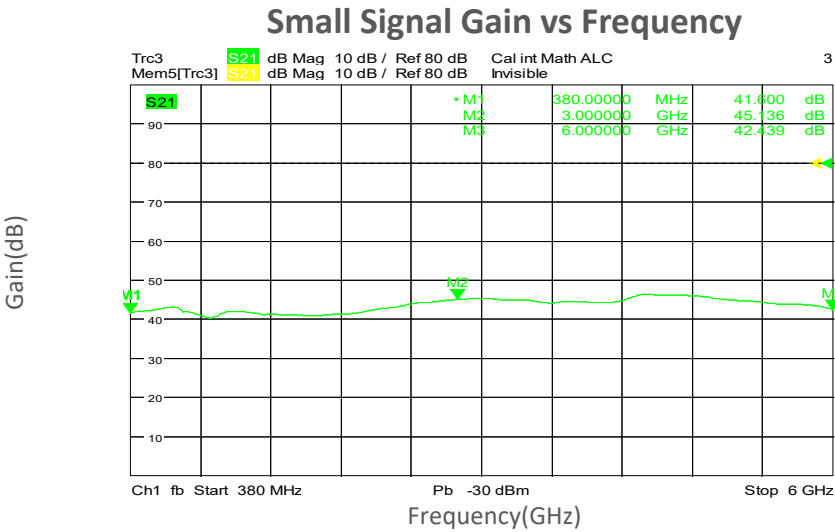
订货信息 Ordering Information:

标准型号 Base Number	描述 Description	版本号 Revision
TURPA0.38G6G-3037	Power amplifier 0.38-6GHz,Gain:35dB,Psat:37dBm, +30V DC,Without Heatsink	Rev.1.1
TURPA0.38G6G-3037 HS	Power amplifier 0.38-6GHz,Gain:35dB,Psat:37dBm, +30V DC,With Heatsink	Rev.1.1

典型曲线 Typical Performance Data:



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典型曲线 Typical Performance Data:

