

Power Amplifier

0.5-6GHz/43dB Gain/43dBm Psat

TLPA0.5G6G-43-43

TURPA0.5G6G-4343 is a power amplifier with a minimum small signal gain of 43 dB and a minimum Psat of 43 dBm across the frequency range of 0.5 to 6 GHz. The DC power requirement for the amplifier is +36 VDC/3 A. The input and output port configuration offers coax adapter structure with SMA female.

Features:

- Frequency range: 0.5-6GHz
- Gain: 43dB Min
- Output Power Psat: 43dBm 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		0.5-6			GHz
小信号增益 Small Signal Gain		43			dB
增益平坦度 Gain Flatness			±3.5		dB
饱和输出功率 Output Psat		43			dBm
杂散 Spurious				-50	dBc
谐波抑制 Harmonic	@0.5-0.7GHz			-5	dBc
	@0.7-6GHz			-10	dBc
输入驻波 Input VSWR				1.8	:1
直流电压 DC Voltage			36		V DC
直流电流 DC Supply Current			3		A
阻抗 Impedance		50			Ohms

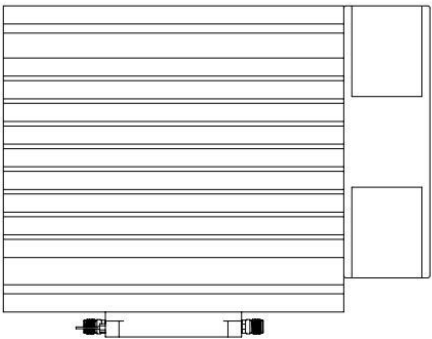
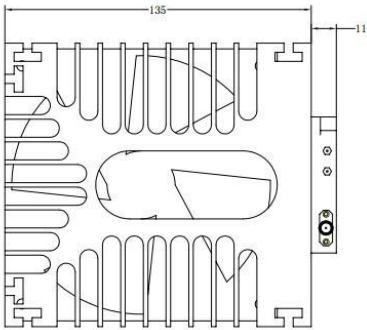
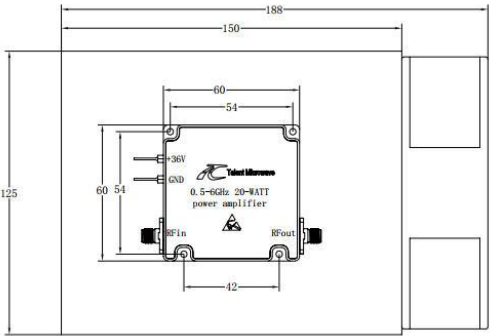
机械特性 Mechanical Specifications:

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	Feedthru capacitors	
尺寸 Size	60*60*11(Without heatsink) 188*125*146(With heatsink)	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	+39 V
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





温度环境 Environmental Conditions:

参数 Parameter	Min	Typ	Max	单位 Units
操作温度 Operating Temperature*	-40		+50	℃
存储温度 Non-operating Temperature*	-50		+60	℃
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:

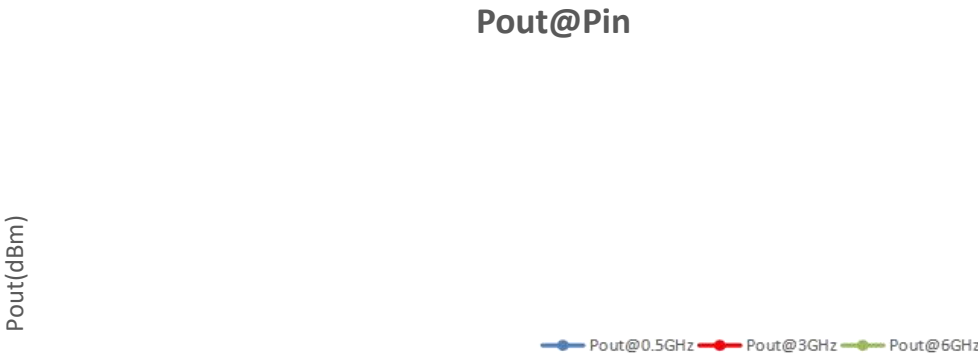
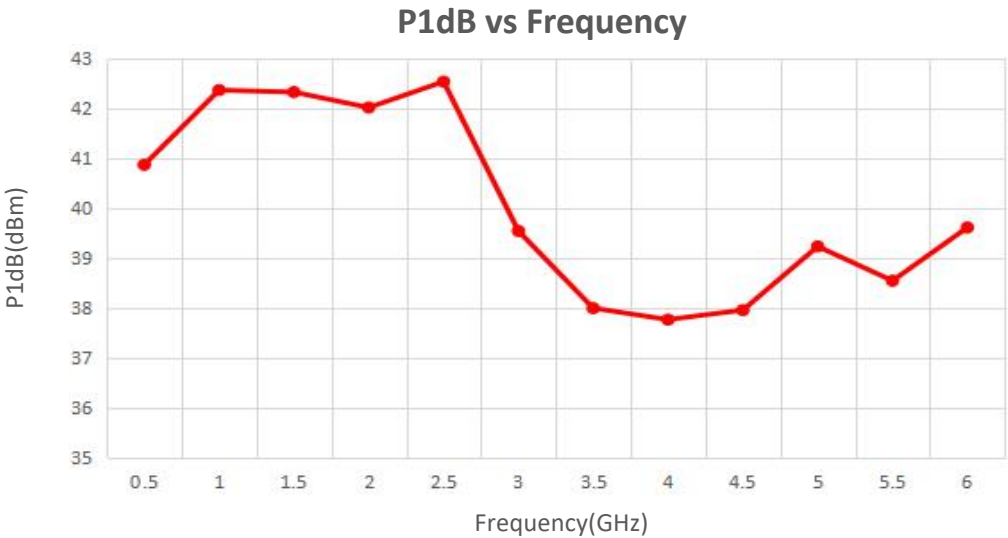
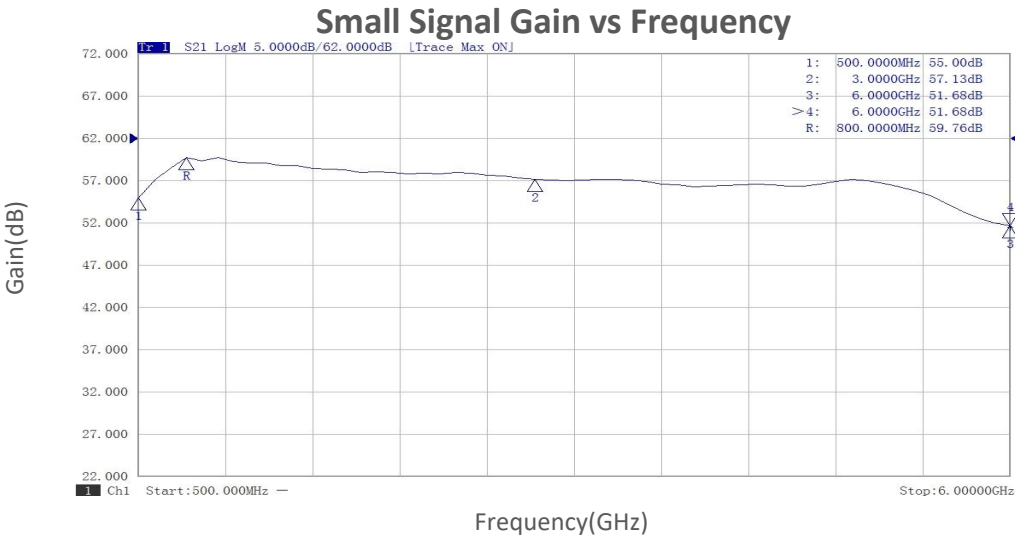
标准型号 Base Number	描述 Description	版本号 Revision
TURPA0.5G6G-4343	Power amplifier 0.5-6GHz, Gain:43dB,Psat:43dBm,+36V DC,Without Heatsink	Rev.1.1
TURPA0.5G6G-4343 HS	Power amplifier 0.5-6GHz, Gain:43dB,Psat:43dBm,+36V DC,With Heatsink	Rev.1.1

典型曲线 Typical Performance Data:

Input VSWR vs Frequency

Input VSWR

典型曲线 Typical Performance Data:



典型曲线 Typical Performance Data:

