

Power Amplifier

GHz/18dB Gain/32dBm Psat

TLPA18G26.5G-18-30

TURPA18G26.5G-1830 is a power amplifier with a typical small signal gain of 18 dB and a nominal Psat of 32 dBm across the frequency range of 18 to 26.5 GHz. The DC power requirement for the amplifier is +12 VDC/860 mA. The input and output port configuration offers coax adapter structure with 2.92mm female.

- Features:
- Frequency range: 18-26.5GHz
 - Gain: 18dB Typ
 - Output Power Psat: 32dBm Typ
 - 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	18-26.5			GHz
小信号增益 Small Signal Gain		18		dB
增益平坦度 Gain Flatness		±2	±2.5	dB
线性输出功率 Output P1dB	30	31		dBm
饱和输出功率 Output Psat		32		dBm
驻波 VSWR		2	2.2	:1
直流电压 DC Voltage		12		V DC
直流电流 DC Supply Current		860		mA
阻抗 Impedance	50			Ohms

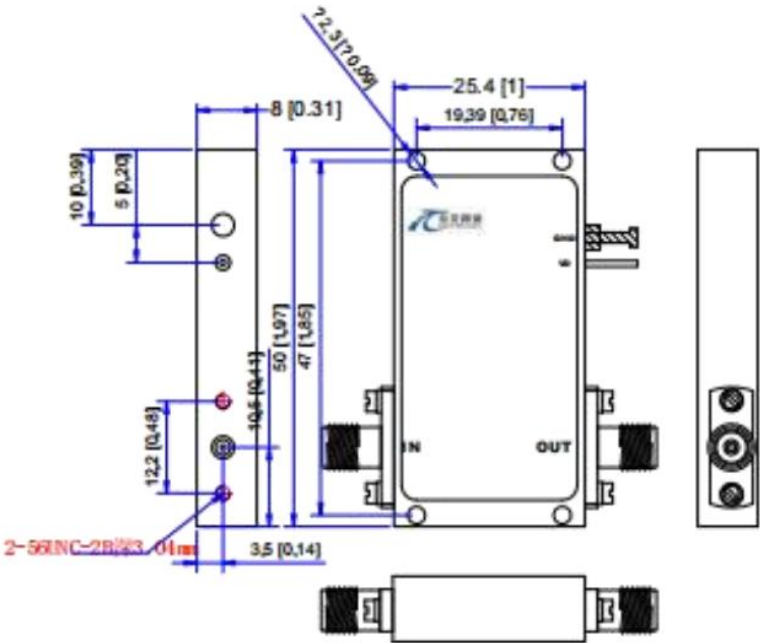
机械特性 Mechanical Specifications:

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	
尺寸 Size	50*25.4*8	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	TBD
输入功率 RF Input Power	+15 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:

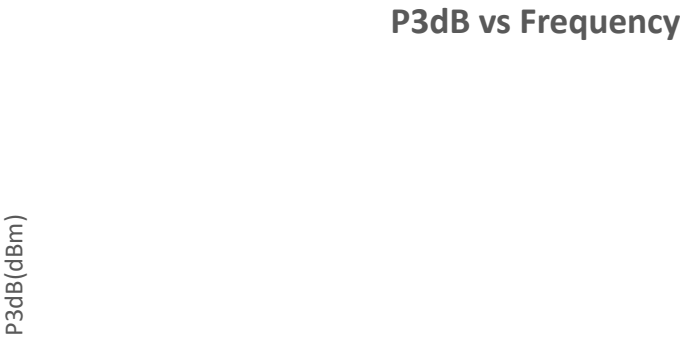
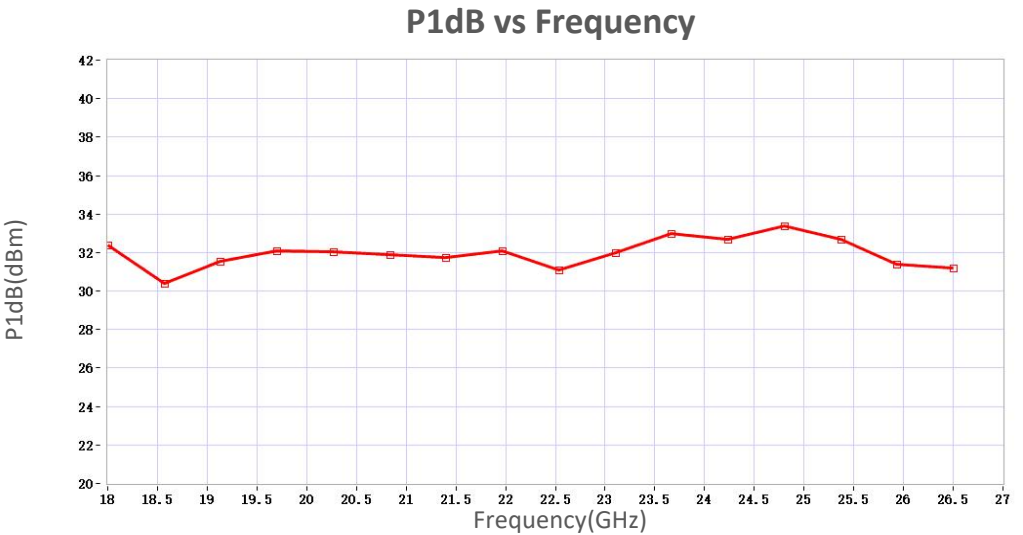
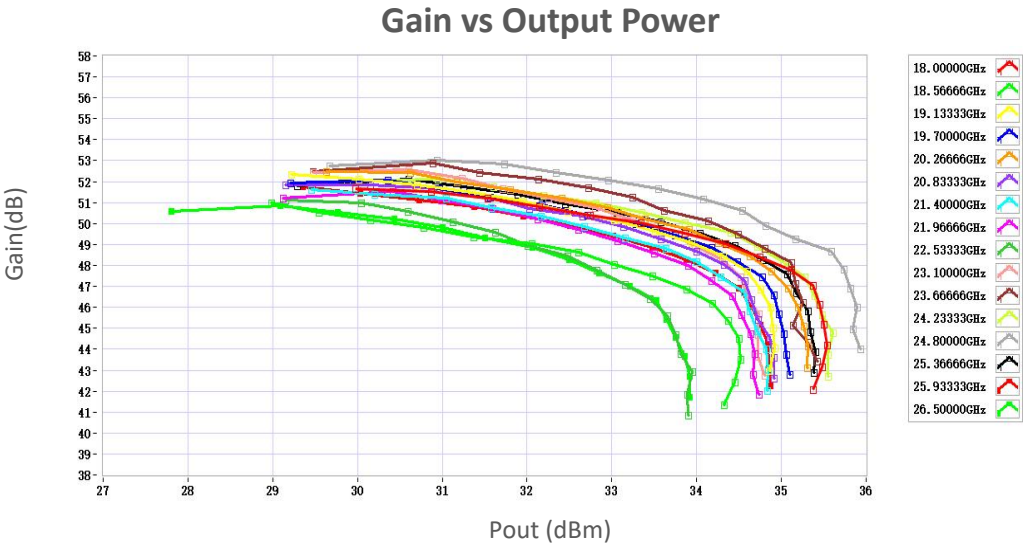
标准型号 Base Number	描述 Description	版本号 Revision
TURPA18G26.5G-1830	Power amplifier 18-26.5GHz, Gain:18dB,Psat:32dBm,+12V DC,Without Heatsink	Rev.1.1
TURPA18G26.5G-1830 HS	Power amplifier 8-26.5GHz, Gain:18dB,Psat:32dBm,+12V DC,With Heatsink	Rev.1.1

典型曲线 Typical Performance Data:

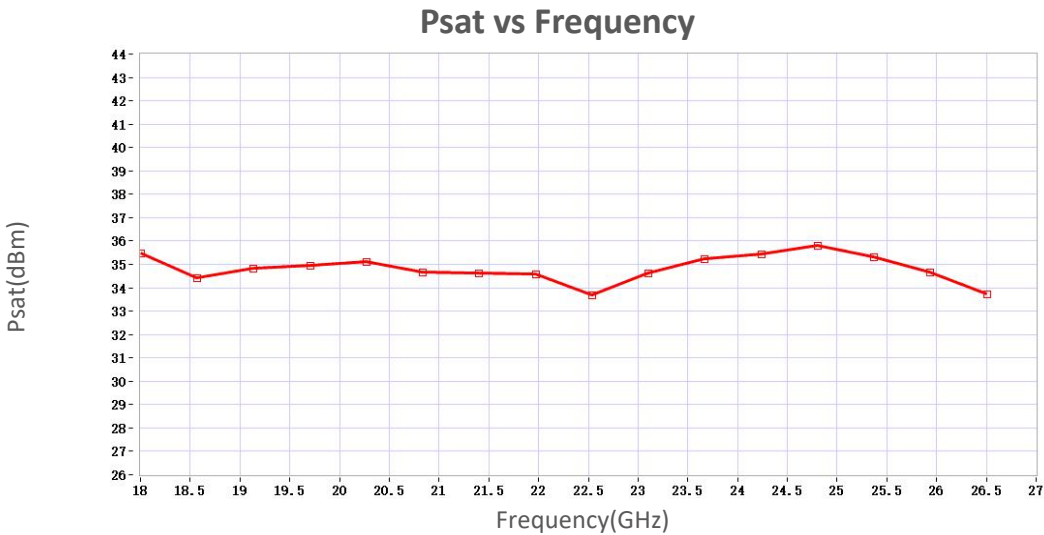
VSWR&Gain vs Frequency

VSWR&Gain

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.