

Power Amplifier

GHz/42dB Gain/42dBm Psat

TLPA18G26.5G-42-42

TURPA18G26.5G-4242 is a power amplifier with a minimum power gain of 40 dB and a minimum Psat of 42 dBm across the frequency range of 18 to 26.5 GHz. The DC power requirement for the amplifier is +22 VDC/100W. The input and output port configuration offers coax adapter structure with 2.92mm female.

- Features:
- Frequency range: 18-26.5GHz
 - Gain: 42dB Min
 - Output Power Psat: 42dBm 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	18-26.5			GHz
功率增益 Power Gain	42			dB
增益平坦度 Gain Flatness		±3		dB
饱和输出功率 Output Psat	42			dBm
杂散 Spurious@Pout=42dBm			-60	dBc
谐波Harmonic@Pout=42dBm			-15	dBc
输入驻波 Input VSWR			2	:1
直流电压 DC Voltage		22		V DC
直流电流 DC Supply Current			100	W
阻抗 Impedance	50			Ohms

机械特性 Mechanical Specifications:

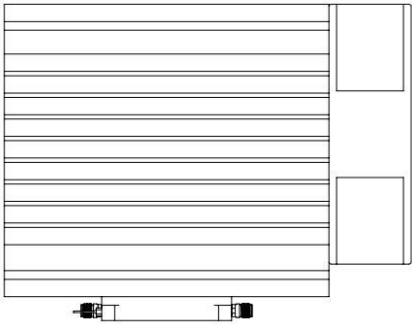
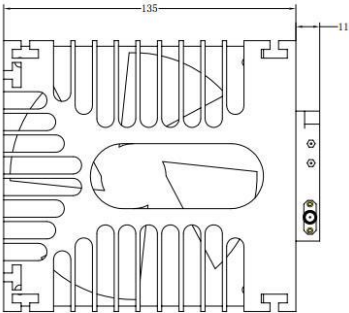
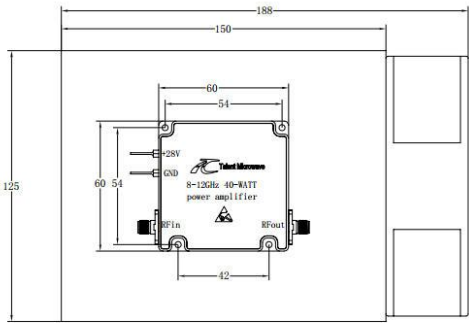
参数 Parameter	指标 Value	单位 Units
输入/输出接口 Input /Output Connector	2.92mm Female/2.92mm Female	
直流偏置 DC Bias	Feedthru capacitors	
尺寸 Size	60*60*11(Without heatsink) 188*125*146(With heatsink)	mm
重量 Weight	≤200	g

绝对最大值 Absolute Maximum Ratings:

参数 Parameter	指标 Value
供电偏置电压 Supply Bias Voltage	+24 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
TURPA18G26.5G-4242	Power amplifier 18-26.5GHz, Gain:42dB,Psat:42dBm,+22V DC,Without Heatsink	Rev.1.1
TURPA18G26.5G-4242 HS	Power amplifier 18-26.5GHz, Gain:42dB,Psat:42dBm,+22V DC,With Heatsink	Rev.1.1