

Power Amplifier

4-8GHz/52dB Gain/52dBm Psat

Model: TLPA4G8G-52-52

TLPA4G8G-52-52 is a power amplifier with a typical small signal gain of 52 dB and a normal Psat of 52 dBm across the frequency range of 4 to 8 GHz. The DC power requirement for the amplifier is +28 VDC/3 A. The input port configuration offers coax adapter structure with SMA female and N output port configuration offers coax adapter structure with female .

Features:

- Frequency range: 4-8GHz
- Gain: 52dB Typ
- Output Power Psat: 52dBm Typ
- Good Power and Gain Flatness
- 50 Ohm Matched Input / Output

Applications:

- Cellular
- PCN
- GSM
- ISM
- Lab Test

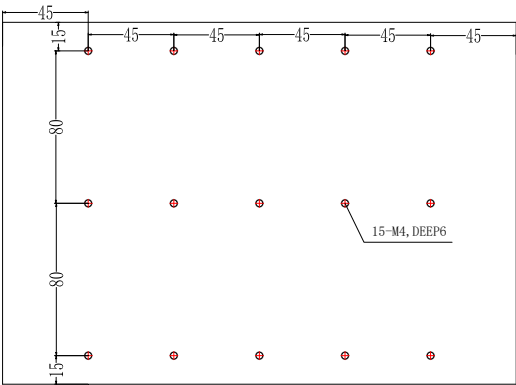
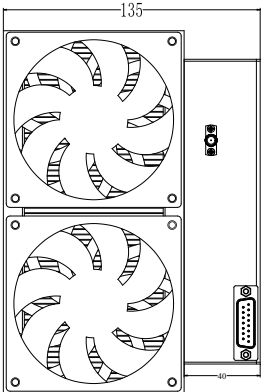
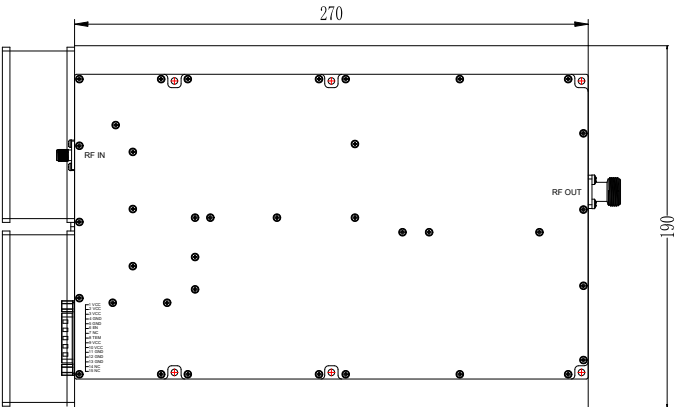
电气特性 Electrical Characteristics:

参数 Parameter	Min	Typ	Max	单位 Units
频率范围 Frequency range	4-8			GHz
小信号增益 Small Signal Gain	50	52		dB
增益平坦度 Gain Flatness		±2	±3	dB
线性输出功率 Output P1dB	50	50.5		dBm
饱和输出功率 Output Psat	51	52		dBm
输入驻波 Input VSWR		1.5	2.0	:1
直流电压 DC Voltage		28	30	V DC
静态电流 Static Current		3		A
饱和电流 Saturation current		20	22	A
阻抗 Impedance	50			Ohms



OBSERVE PRECAUTIONS
ELECTROSTATIC SENSITIVE
DEVICES

外形图 Outline Drawing: Unit:mm



直流供电接口 DC Supply Connector (DSUB-15 Female):

引脚 Pin	名称 Name	功能 Function
1~3、9、10	VCC	Power supply positive,+26.0-30.0VDC
4~5、11~13	GND	Ground
6	EN	Amplifier Enable: TTL High (5V) (Internally Pulled-High) Amplifier Disable: Short to ground
7、14、15	NC	Not Connected
8	TEM	When the temperature of the case exceeds 75 °C, the power amplifier will turn off and this pin will be pulled high. If the temperature of case drops to 70 °C, the power amplifier will return to normal operation, and this pin will be pulled low.

温度环境 Environmental Conditions:

参数 Parameter	Min	Typ	Max	单位 Units
操作温度 Operating Temperature*	-20		+50	℃
存储温度 Non-operating Temperature*	-30		+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
TLPA4G8G-52-52	Power amplifier 4-8GHz, Gain:52dB, Psat:52dBm, +28V DC, Without Heatsink	Rev.1.0
TLPA4G8G-52-52-HS	Power amplifier 4-8GHz, Gain:52dB, Psat:52dBm, +28V DC, With Heatsink	Rev.1.0