

TURPA30M1G-4343

30MHz-1GHz,Gain:43dB,Psat:43dBm

Feature:

- Ultra Wide Band: 30MHz-1GHz
- Gain: 43 dB Min
- Psat Output Power: 43 dBm Min
- Good Power and Gain Flatness
- 50 Ohm Matched Input / Output

电气特性 Electrical Specifications:

参数 Parameter	Min	Typ	Max	单位 Units
频率范围 Frequency range	30MHz-1GHz			
增益 Gain	43	45		dB
增益平坦度 Gain Flatness		±2	±3	dB
线性输出功率 Output P1dB	41			dBm
饱和输出功率 Output Psat	43	44		dBm
谐波 Harmonic		-10		dBc
输入驻波 Input VSWR		1.5	2.0	:1
直流电压 DC Voltage		28	30	V DC
直流电流 DC Supply Current		1	6	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	D-SUB-9	
尺寸 Size	170*80*20	mm
重量 Weight	500	g

绝对最大值 Absolute Maximum Ratings:

参数 Parameter	指标 Value
供电偏置电压 Supply Bias Voltage	+30 V
输入功率 RF Input Power	+5 dBm

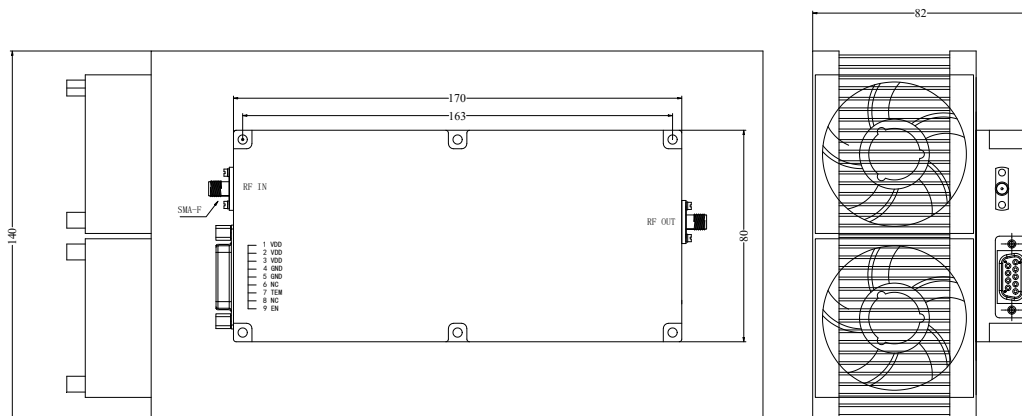
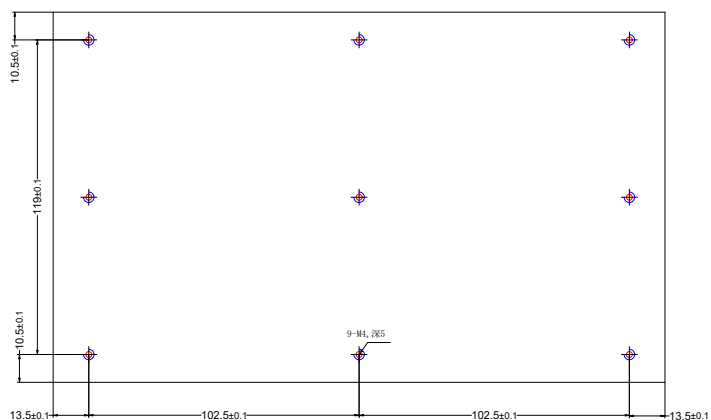


The drawing shows the PCB layout with dimensions in millimeters. The overall width is 170 mm and the height is 108 mm. The mounting holes are spaced 163 mm apart horizontally and 98 mm apart vertically. The SMA-F connector is located on the left side, and the SMA-M connector is on the right side. The pin headers are located on the bottom left. The dimensions are as follows:

- Overall width: 170 mm
- Overall height: 108 mm
- Mounting hole spacing (horizontal): 163 mm
- Mounting hole spacing (vertical): 98 mm
- Pin header spacing: 5 ± 0.1 mm
- Pin header pitch: 2.54 mm
- Pin header width: 6 mm
- Pin header diameter: Φ 3.5 mm
- Pin header length: 10 mm
- Pin header pitch (vertical): 2.54 mm
- Pin header width (vertical): 6 mm
- Pin header diameter (vertical): Φ 3.5 mm
- Pin header length (vertical): 10 mm



OBSERVE PRECAUTIONS
ELECTROSTATIC SENSITIVE
DEVICES





Pin	Name	Function
1	+28V	+26.0-30.0VDC
2	+28V	+26.0-30.0VDC
3	+28V	+26.0-30.0VDC
4	GND	Ground
5	GND	Ground
6	NC	Not connected
7	Over Temperature	When the temperature of the case exceeds 85 °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.
8	NC	Not connected
9	EN	Amplifier Enable: TTL High (5V) (Internally Pulled-High) Amplifier Disable: Short to ground

温度环境 Environmental Conditions:

参数 Parameter	Min	Typ	Max	单位 Units
操作温度 Operating Temperature*	-40		+50	°C
存储温度 Non-operating Temperature*	-50		+60	°C
相对湿度 Relative humidity		95		%
海拔 Altitude	10,000			feet
震动 Shock / Vibration(MIL-STD-810F)	20g,11ms,saw-tooth			
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 Part Number	描述 Description	版本号Revision
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