



Power Amplifier

Model: PA-5250M-5370M-20

5.25-5.37GHz 20W CW

Ultrabroad frequency range, high performance and exceptional RF characteristics

Features:

- Frequency range: 5.25-5.37GHz
- High output power at saturation, 20W Typ.
- High gain, 45 dB Typ.
- 50 Ohm Matched Input / Output.

Applications:

- Cellular
- PCN
- GSM
- ISM
- Lab Test

Product Overview:

The PA-5250M-5370M-20 is a power amplifier with a typical gain of 45 dB and a nominal P_{sat} of 20W across the frequency range of 5.25 to 5.37GHz. The DC power requirement for the amplifier is +28 VDC/4 A. The input and output port configuration offers coax adapter structure with SMA female. And it has built-in protection functions included over temperature and reverse power protection. And it has built-in protection functions included reverse power, and over temperature protection.



Electrical Specifications at 25°C:

Parameter	Min	Typ	Max	Units
Frequency range	5.25		5.37	GHz
Gain	40	45		dB
Gain Flatness		±0.2	±0.25	dB
Output P1dB	42.3	42.7		dBm
Output Psat		43		dBm
Supurious			-70	dBc
Harmonic			-50	dBc
Input VSWR		1.5	2.0	:1
DC Voltage		+28		V DC
DC Supply Current		4		A
Impedance		50		Ohms

Mechanical Specifications:

Parameter	Value	Notes
Operating Temperature*	-40°C to +50°C	
Non-operating Temperature*	-50°C to +60°C	
Relative humidity	95%	
RF Input/Output Connector	SMA Female/SMA Female	
DC Bias	Solder Pin	
Altitude	10,000	feet
Shock / Vibration(MIL-STD-810F)	20g,11ms,saw-tooth	
Shock(non operating)	20G for 11msc half sin wave,3 axis both directions	
Dimensions W x H x D	170*94*20	mm

*Note: For a wider temperature range, please consult the manufacturer.

Absolute Maximum Ratings:

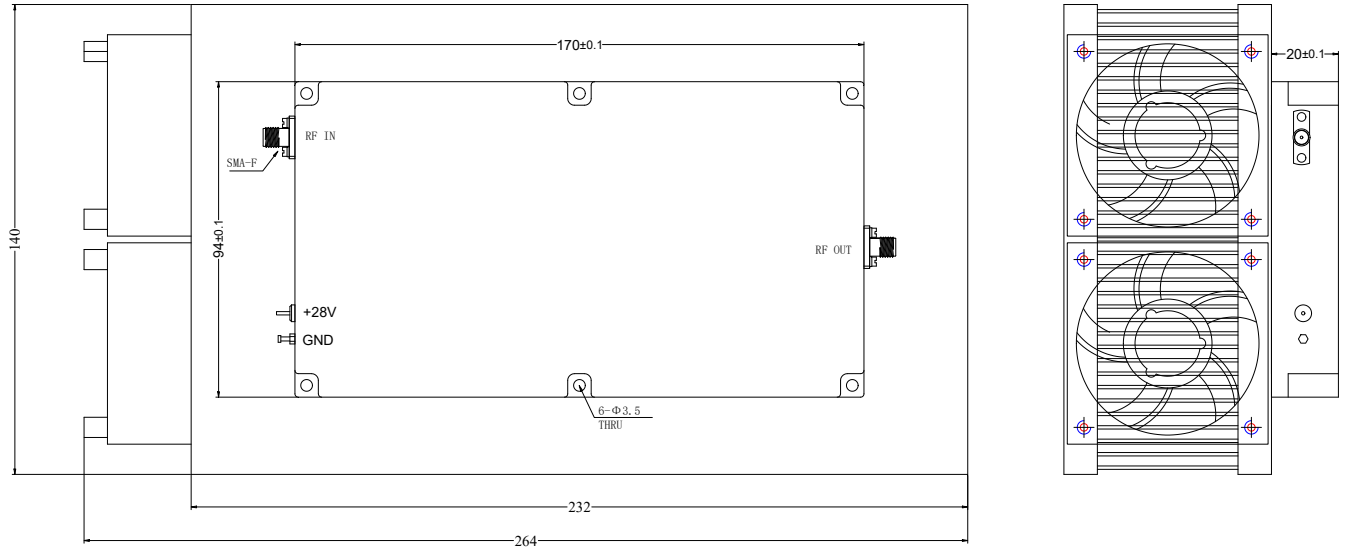
Parameter	Value
Supply Bias Voltage	+28 V
RF Input Power	+5 dBm
ESD sensitivity (HBm)	Class 0, passed 150V



Outline Drawing:

Unit:mm

PA-5250M-5370M-20-HS



Key Features:

Parameter	Advantages
Protection functions	1.Over Temperature Protection 2.Reverse power Protection

Ordering Information:

Base Number	Description	Optional
PA-5250M-5370M-20	Power Amplifier, 5.25-5.37GHz, Gain:45dB,Psat:20W,+28V DC	Without Heatsink
PA-5250M-5370M-20-HS	Power Amplifier, 5.25-5.37GHz, Gain:45dB,Psat:20W,+28V DC	With Heatsink