



Power Amplifier

Model: PA-800M-1300M-100

0.8-1.3GHz 100W CW

Ultrabroad frequency range, high performance and exceptional RF characteristics

Features:

- Frequency range: 0.8-1.3GHz
- High output power at saturation, 100W Min.
- High gain, 50 dB Min.
- 50 Ohm Matched Input / Output.

Applications:

- Cellular
- PCN
- GSM
- ISM
- Lab Test

Product Overview:

The PA-800M-1300M-100 is a power amplifier with a minimum gain of 50 dB and a minimum Psat of 100W across the frequency range of 0.8 to 1.3 GHz. The DC power requirement for the amplifier is +28 VDC/2 A. The input and output port configuration offers coax adapter structure with SMA female.



Electrical Specifications at 25°C:

Parameter	Min	Typ	Max	Units
Frequency range	0.8		1.3	GHz
Gain	50	52		dB
Gain Flatness		±1	±2	dB
Output Psat	50	51		dBm
Input VSWR		1.5	2.0	:1
DC Voltage		+28		V DC
DC Supply Current		2	15	A
Impedance		50		Ohms

Mechanical Specifications:

Parameter	Value	Notes
Operating Temperature*	-20°C to +50°C	
Non-operating Temperature*	-30°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)	25g rms (15 degree 2KHz) endurance, 1 hour per axis	
Shock(non operating)	20G for 11msc half sin wave,3 axis both directions	
Dimensions W x H x D	180*100*20	mm
Weight	250	g

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

Absolute Maximum Ratings:

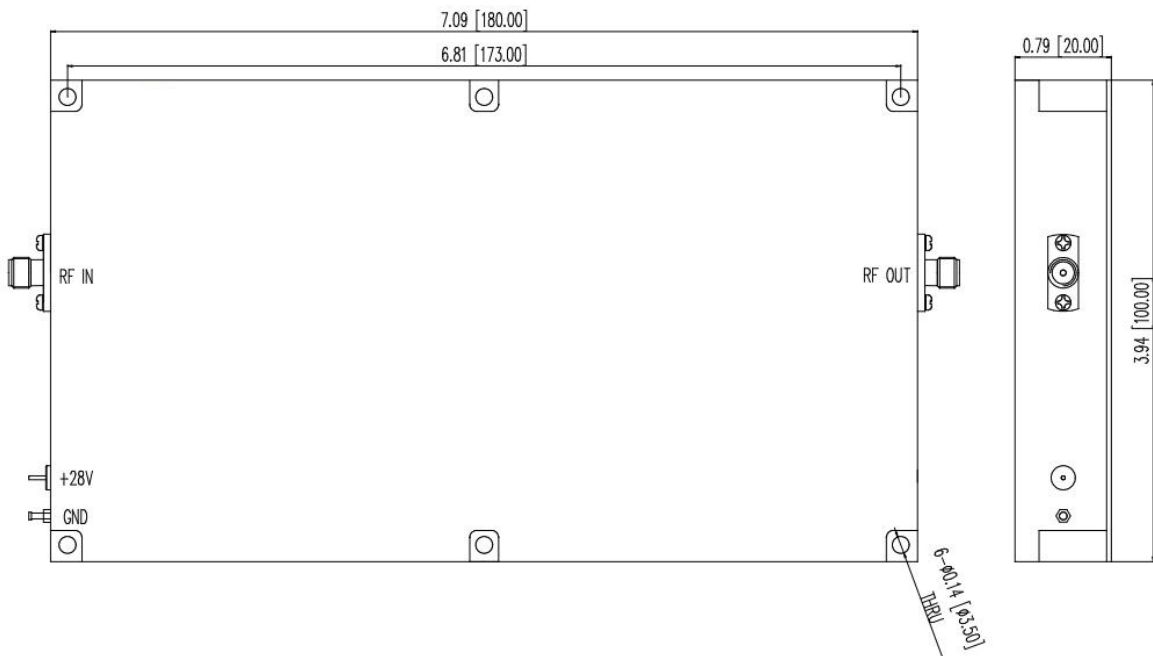
Parameter	Value
Supply Bias Voltage	+30 V
RF Input Power	+5 dBm
ESD sensitivity (HBm)	Class 0, passed 150V



Outline Drawing:

Unit:mm

PA-800M-1300M-100



Ordering Information:

Base Number	Description	Optional
PA-800M-1300M-100	Power Amplifier, 0.8-1.3GHz, Gain:50dB,Psat:100W,+28V DC	Without Heatsink
PA-800M-1300M-100-HS	Power Amplifier, 0.8-1.3GHz, Gain:50dB,Psat:100W,+28V DC	With Heatsink