



Power Amplifier

Model: PA-2390M-2410M-20

2.39-2.41GHz 20W CW

Ultrabroad frequency range, high performance and exceptional RF characteristics

Features:

- Frequency range: 2.39-2.41GHz
- High output power at saturation, 20W Min.
- High gain, 43 dB Min.
- 50 Ohm Matched Input / Output.

Applications:

- Cellular
- PCN
- GSM
- ISM
- Lab Test

Product Overview:

The PA-2390M-2410M-20 is a power amplifier with a minimum gain of 43 dB and a minimum Psat of 20W across the frequency range of 2.39 to 2.41GHz. 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.



Electrical Specifications at 25°C:

Parameter	Min	Typ	Max	Units
Frequency range	2.39		2.41	GHz
Gain	43	45		dB
Gain Flatness		±0.5		dB
Output Psat	43	43.5		dBm
Spurious			-50	dBc
Harmonic		-15	-10	dBc
Input VSWR			2	: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	30,000	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	140*80*20(Without heatsink) 161.33*90*61(With heatsink)	mm

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

Absolute Maximum Ratings:

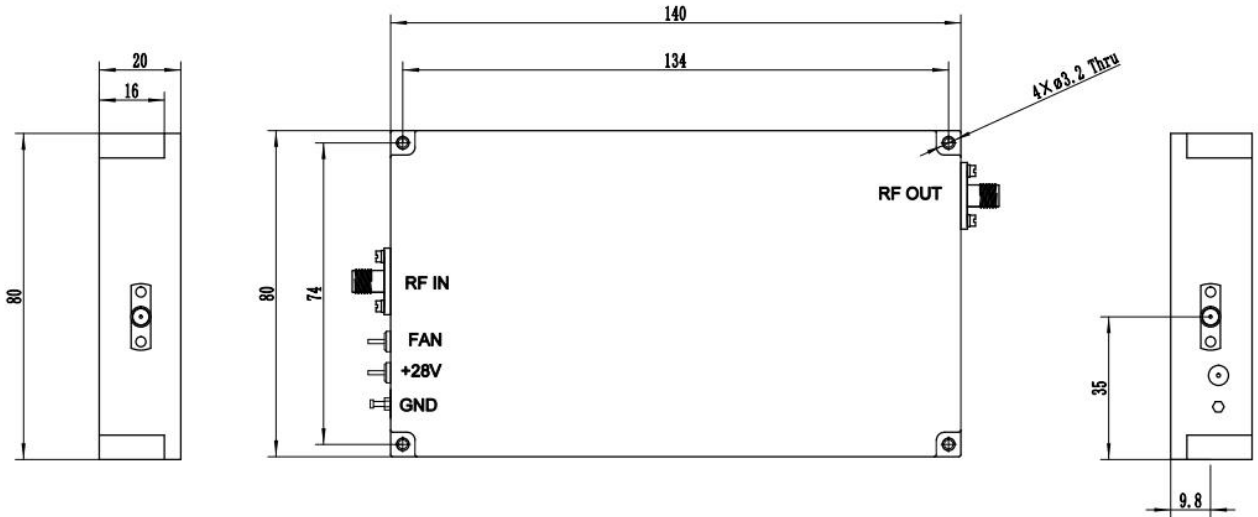
Parameter	Value
Supply Bias Voltage	+28 V
RF Input Power	+5 dBm
ESD sensitivity (HBm)	Class 0, passed 150V



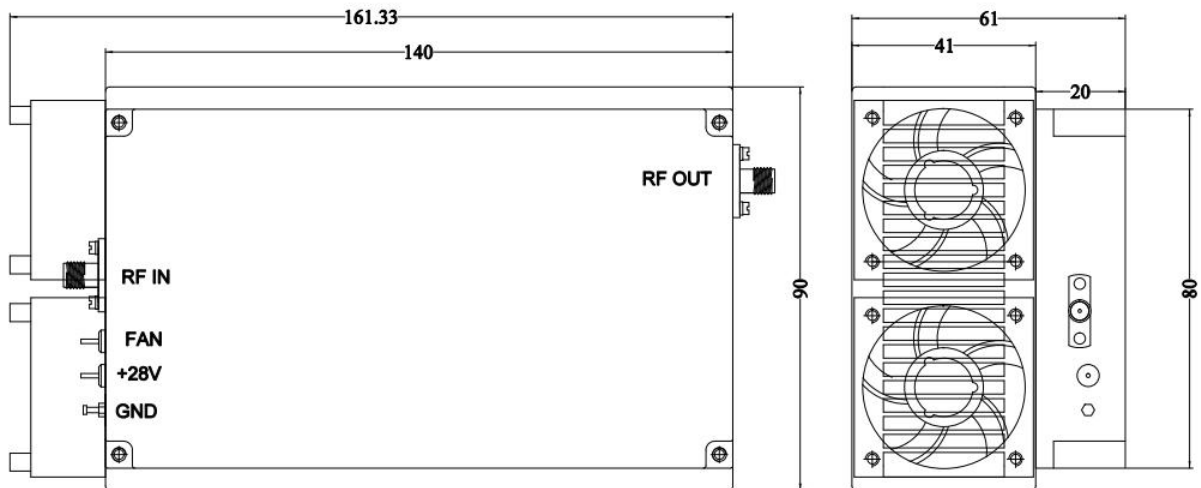
Outline Drawing:

Unit:mm

PA-2390M-2410M-20



PA-2390M-2410M-20-HS



Ordering Information:

Base Number	Description	Optional
PA-2390M-2410M-20	Power Amplifier, 2.39-2.41GHz, Gain:43dB,Psat:20W,+28V DC	Without Heatsink
PA-2390M-2410M-20-HS	Power Amplifier, 2.39-2.41GHz, Gain:43dB,Psat:20W,+28V DC	With Heatsink