



Power Amplifier

Model: PA-10M-300M-2

10-300MHz 2W CW

Ultrabroad frequency range, high performance and exceptional RF characteristics

Features:

- Frequency range: 10-300MHz
- High output power at saturation, 2W Min.
- High gain, 33 dB Min.
- 50 Ohm Matched Input / Output.

Applications:

- Cellular
- PCN
- GSM
- ISM
- Lab Test

Product Overview:

The PA-10M-300M-2 is a power amplifier with a minimum gain of 33 dB and a minimum Psat of 2W across the frequency range of 10 to 300MHz. The DC power requirement for the amplifier is +15 VDC/0.2 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	10		300	MHz
Gain	33	35		dB
Gain Flatness		±1	±2	dB
Output Psat	33	34		dBm
Harmonics @Pout=33dBm		-15		dBc
Input VSWR		1.5	2.0	:1
DC Voltage		+15	+16	V DC
DC Supply Current		0.9	1.0	A
Impedance		50		Ohms

Mechanical Specifications:

Parameter	Value	Notes
Operating Temperature*	-40°C to +60°C	
Non-operating Temperature*	-50°C to +70°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)	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	76*48*15	mm
Weight	150	g

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

Absolute Maximum Ratings:

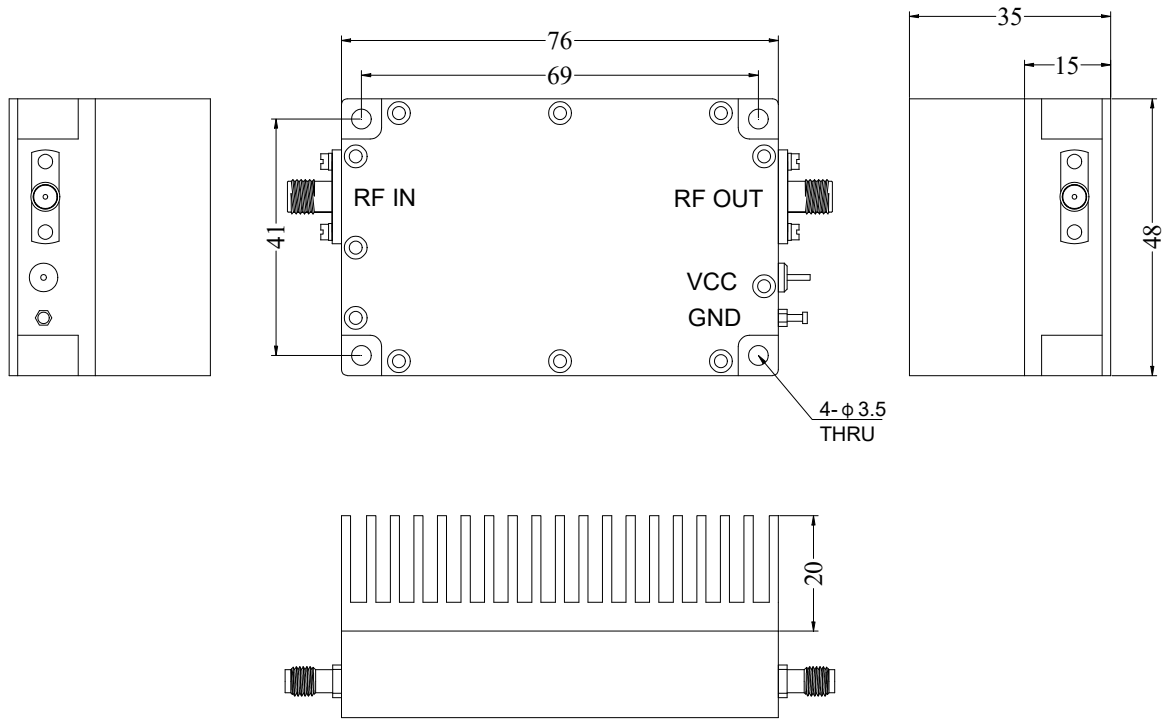
Parameter	Value
Supply Bias Voltage	+16 V
RF Input Power	+5 dBm
ESD sensitivity (HBm)	Class 0, passed 150V



Outline Drawing:

Unit:mm

PA-10M-300M-2



Ordering Information:

Base Number	Description	Optional
PA-10M-300M-2	Power Amplifier, 10-300MHz, Gain:33dB,Psat:2W,+15V DC	Without Heatsink
PA-10M-300M-2-HS	Power Amplifier, 10-300MHz, Gain:33dB,Psat:2W,+15V DC	With Heatsink