



Power Amplifier

Model: PA-12G-13G-32

12-13GHz 32W CW

Ultrabroad frequency range, high performance and exceptional RF characteristics

Features:

- Frequency range: 12-13GHz
- High output power at saturation, 32W Min.
- High gain, 45 dB Min.
- 50 Ohm Matched Input / Output.

Applications:

- Cellular
- PCN
- GSM
- ISM
- Lab Test

Product Overview:

The PA-12G-13G-32 is a power amplifier with a minimum power gain of 45 dB and a minimum Psat of 32 W across the frequency range of 12 to 13 GHz. The DC power requirement for the amplifier is +24 VDC/6 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	12		13	GHz
Working Mode	CW/Pulse			
Power Gain	45			dB
Power Gain Flatness		±2		dB
Output Psat	45			dBm
Spurious@Pout=45dBm			-60	dBc
Harmonic@Pout=45dBm			-15	dBc
Input VSWR			2	:1
DC Voltage		24	25	V DC
DC Supply Current			6	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	Feedthru Capacitor	
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	60*60*11(Without heatsink) 188*125*146(With heatsink)	mm
Weight	≤320(Without heatsink)	g

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

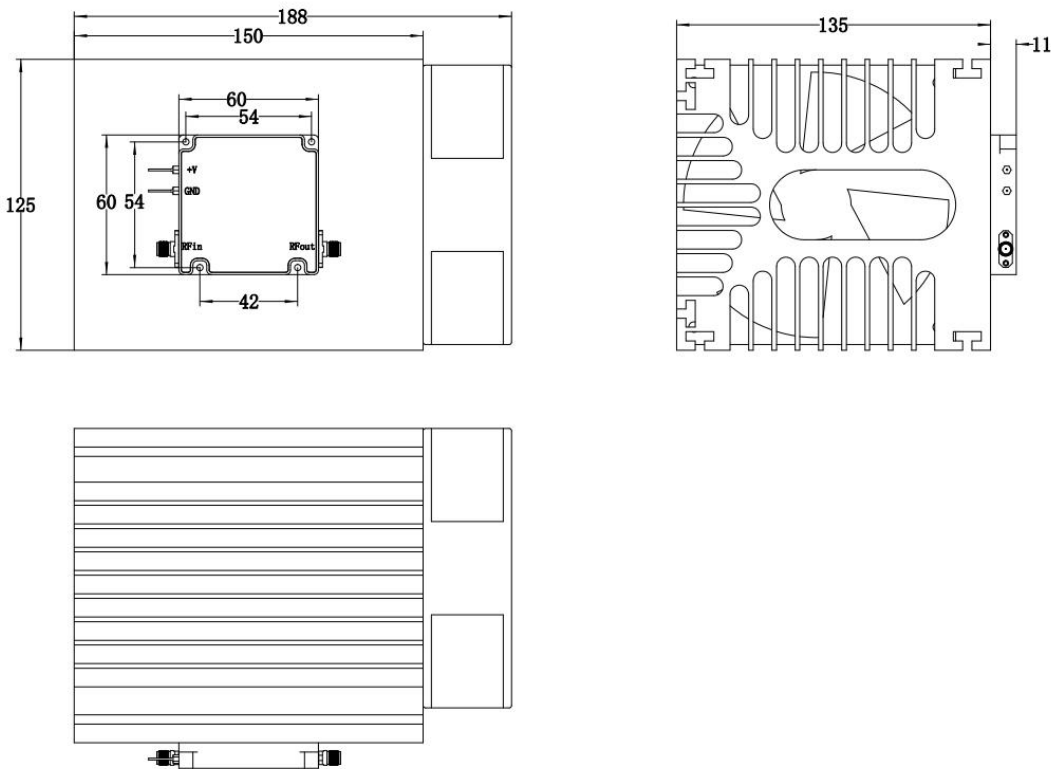


Absolute Maximum Ratings:

Parameter	Value
Supply Bias Voltage	+26 V
RF Input Power	+5 dBm
ESD sensitivity (HBm)	Class 0, passed 150V

Outline Drawing: Unit:mm

PA-12G-13G-32-HS



Ordering Information:

Base Number	Description	Optional
PA-12G-13G-32	Power Amplifier, 12-13GHz, Gain:45dB,Psat:32W,+24V DC	Without Heatsink
PA-12G-13G-32-HS	Power Amplifier, 12-13GHz, Gain:45dB,Psat:32W,+24V DC	With Heatsink