



Power Amplifier

Model: PA-27G-32G-20

27-32GHz 20W CW

Ultrabroad frequency range, high performance and exceptional RF characteristics

Features:

- Frequency range: 27-32GHz
- 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-27G-32G-20 is a power amplifier with a minimum power gain of 43 dB and a minimum Psat of 20W across the frequency range of 27 to 32GHz. The DC power requirement for the amplifier is +22 VDC/7 A. The input and output port configuration offers coax adapter structure with 2.92mm female.



Electrical Specifications at 25°C:

Parameter	Min	Typ	Max	Units
Frequency range	27		32	GHz
Power Gain	43			dB
Power Gain Flatness		±3		dB
Output Psat	43			dBm
Spurious@Pout=43dBm			-50	dBc
Input VSWR			2	:1
DC Voltage		+22		V DC
DC Supply Current		7	8.5	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	2.92mm Female/2.92mm Female	
DC Bias	J30J-9ZKP	Pin1~5:+22V Pin6~9:GND
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	150*90*20(Without heatsink) 188*125*155(with heatsink)	mm
Weight	400	g

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

Absolute Maximum Ratings:

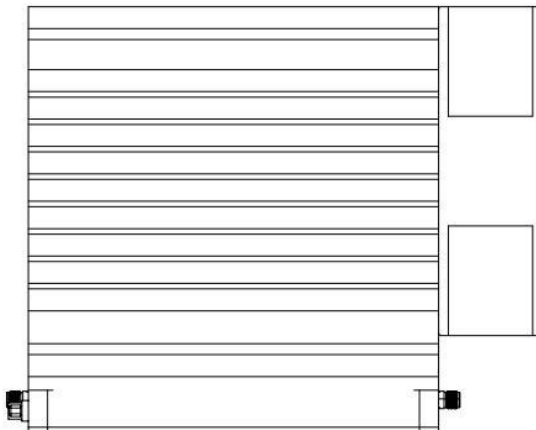
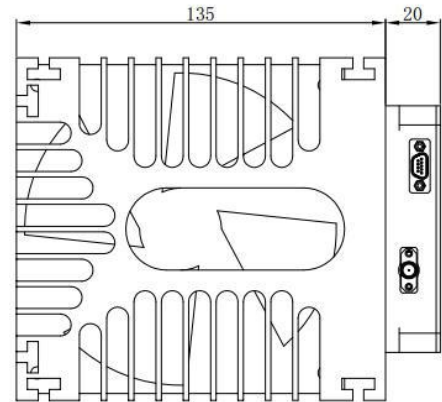
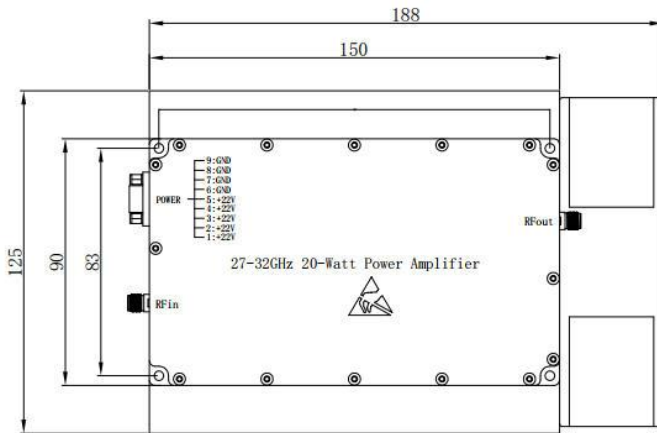
Parameter	Value
Supply Bias Voltage	+24 V
RF Input Power	+5 dBm
ESD sensitivity (HBm)	Class 0, passed 150V



Outline Drawing:

Unit:mm

PA-27G-32G-20-HS



Ordering Information:

Base Number	Description	Optional
PA-27G-32G-20	Power Amplifier, 27-32GHz, Gain:43dB,Psat:20W,+22V DC	Without Heatsink
PA-27G-32G-20-HS	Power Amplifier, 27-32GHz, Gain:43dB,Psat:20W,+22V DC	With Heatsink