



Power Amplifier

Model: PA-14G-15G-63

14-15GHz 63W CW

Ultrabroad frequency range, high performance and exceptional RF characteristics

Features:

- Frequency range: 14-15GHz
- High output power at saturation, 63W Min.
- High gain, 48 dB Min.
- 50 Ohm Matched Input / Output.

Applications:

- Cellular
- PCN
- GSM
- ISM
- Lab Test

Product Overview:

The PA-14G-15G-63 is a power amplifier with a minimum gain of 48 dB and a minimum Psat of 63W across the frequency range of 14 to 15 GHz. The DC power requirement for the amplifier is +28 VDC/400 W. The input port configuration offers coax adapter structure with SMA female and output port is WR-62.



Electrical Specifications at 25°C:

Parameter	Min	Typ	Max	Units
Frequency range	14		15	GHz
Gain	48			dB
Gain Flatness		±3		dB
Output Psat	48			dBm
Spurious@Pout=48dBm			-60	dBc
Harmonics			-20	dBc
3rd Order IMD	25			dBc
Input VSWR			1.5	:1
DC Voltage		+28		V DC
Power Consumption			400	W
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/WR-62	
DC Bias	Solder Pin	
Altitude	10,000	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	135*140*100	mm
Weight	≤3.5	Kg

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

Absolute Maximum Ratings:

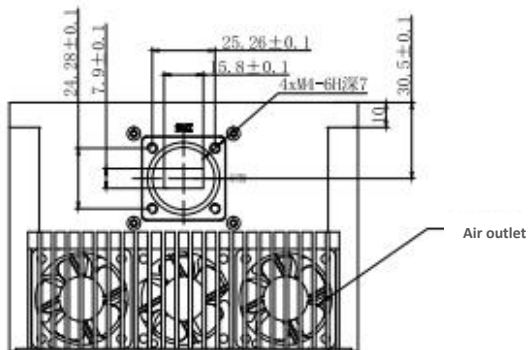
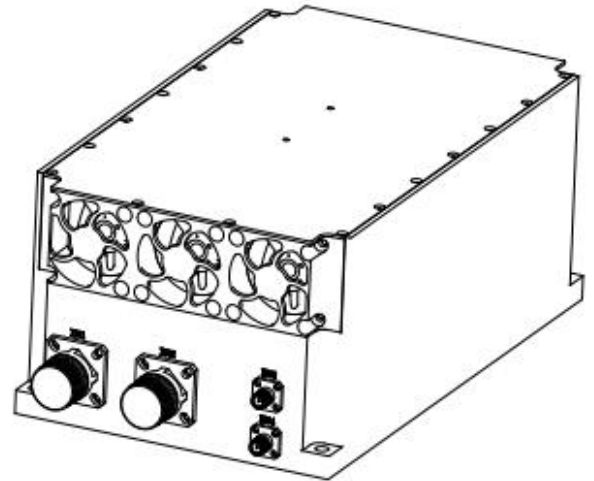
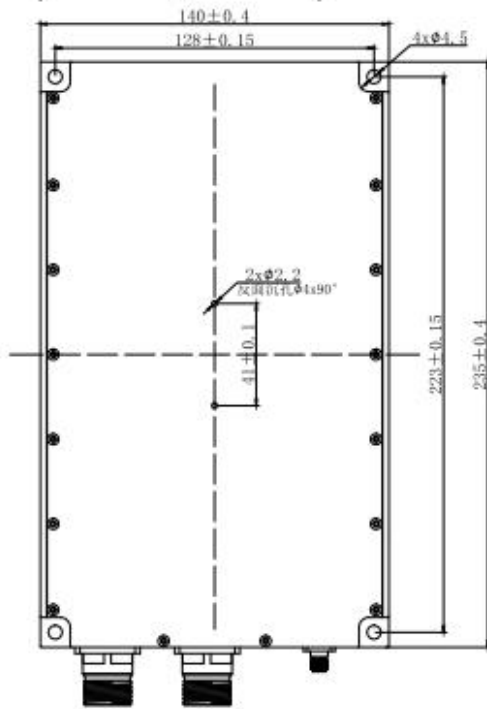
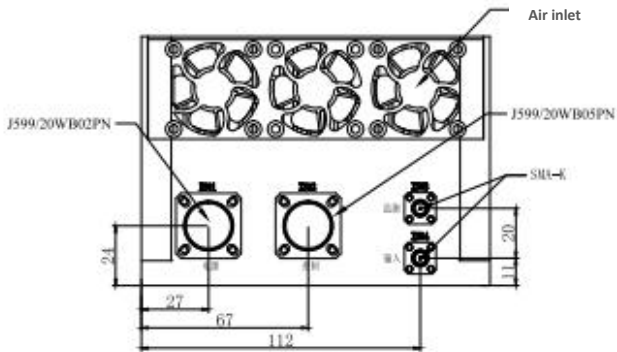
Parameter	Value
Supply Bias Voltage	TBD
RF Input Power	+10 dBm
ESD sensitivity (HBm)	Class 0, passed 150V



Outline Drawing:

Unit:mm

PA-14G-15G-63





Instruction Connector:

Pin	Function
J1	1,RF Input 2,IF/REF Input
J2	RFO utput
J3	Supply Voltage
J4	Communication
J5	Output Power Forward Coupling

Ordering Information:

Base Number	Description	Optional
PA-14G-15G-63	Power Amplifier, 14-15GHz, Gain:48dB,Psat:63W,+28V DC	With Heatsink