



Power Amplifier

Model: PA-40G-67G-10

40-67GHz 10W CW

Ultrabroad frequency range, high performance and exceptional RF characteristics

Features:

- Frequency range: 40-67GHz
- High output power at saturation, 10W Min.
- High gain, 43 dB Min.
- 50 Ohm Matched Input / Output.

Applications:

- Cellular
- PCN
- GSM
- ISM
- Lab Test

Product Overview:

The PA-40G-67G-10 is a power amplifier with a minimum power gain of 43 dB and a minimum P_{sat} of 10W across the frequency range of 40 to 67 GHz. The DC power requirement for the amplifier is +18 VDC/35 A. The input port configuration offers coax adapter structure with 1.85mm female and output port is WR19 waveguide with a UG-383/U-M anti-cocking flange.



Electrical Specifications at 25°C:

Parameter	Min	Typ	Max	Units
Frequency range	40		67	GHz
Power Gain	43			dB
Output P1dB	35			dBm
Output Psat	40	43		dBm
Spurious@Pout=43dBm			-50	dBc
Input VSWR		2.5		:1
DC Voltage		+18	+18.5	V DC
DC Supply Current		35		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	1.85mm Female/WR-19/UG-383/U	
DC Supply Connector	DSUB-5W5	A1~A2: +18V A3~A5: GND
Control Connector	J30J-15ZKP	
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	300*262*92	mm
Weight	≤7.5	Kg

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

Absolute Maximum Ratings:

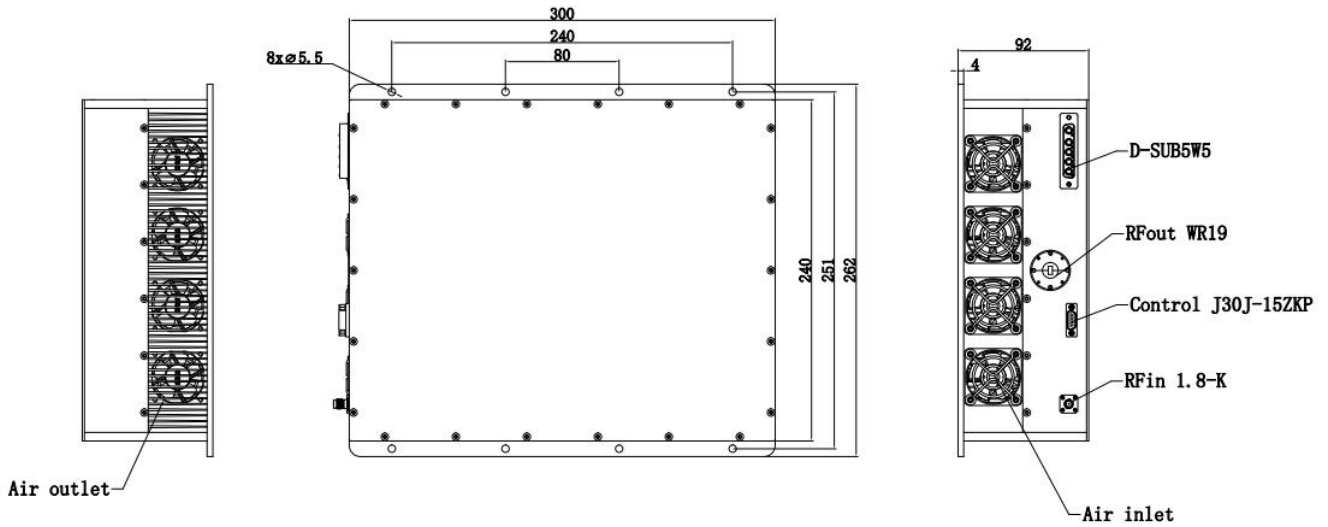
Parameter	Value
Supply Bias Voltage	+18.5 V
RF Input Power	+5 dBm
ESD sensitivity (HBm)	Class 0, passed 150V



Outline Drawing:

Unit:mm

PA-40G-67G-10



Ordering Information:

Base Number	Description	Optional
PA-40G-67G-10	Power Amplifier, 40-67GHz, Gain:43dB,Psat:10W,+18V DC	With Heatsink