



Power Amplifier

Model: PA-40G-67G-0.25

40-67GHz 0.25W CW

Ultrabroad frequency range, high performance and exceptional RF characteristics

Features:

- Frequency range: 40-67GHz
- High output power at saturation, 0.25W Typ.
- High gain, 51 dB Typ.
- 50 Ohm Matched Input / Output.

Applications:

- Cellular
- PCN
- GSM
- ISM
- Lab Test

Product Overview:

The PA-40G-67G-0.25 is a power amplifier with a typical power gain of 51 dB and a nominal P_{sat} of 0.25W across the frequency range of 40 to 67GHz. The DC power requirement for the amplifier is +18 VDC/0.5 A. The input and output port configuration offers coax adapter structure with 1.85mm female.



Electrical Specifications at 25°C:

Parameter	Min	Typ	Max	Units
Frequency range	40		67	GHz
Power Gain		51		dB
Power Gain Flatness		±5		dB
Output Psat		24		dBm
Input VSWR		2		:1
Output VSWR		2		:1
DC Voltage		+18		V DC
DC Supply Current		0.5		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	1.85mm Female/1.85mm Female	
DC Bias	Solder Pin	
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	52*44*13(Without Heatsink) 111*50*63(With Heatsink)	mm

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

Absolute Maximum Ratings:

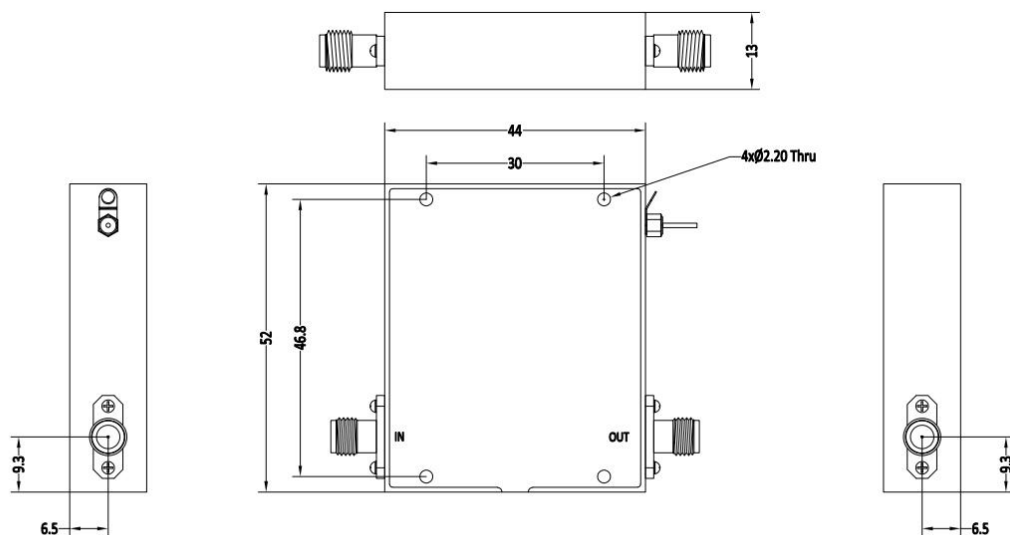
Parameter	Value
Supply Bias Voltage	+18 V
RF Input Power	-10 dBm
ESD sensitivity (HBm)	Class 0, passed 150V



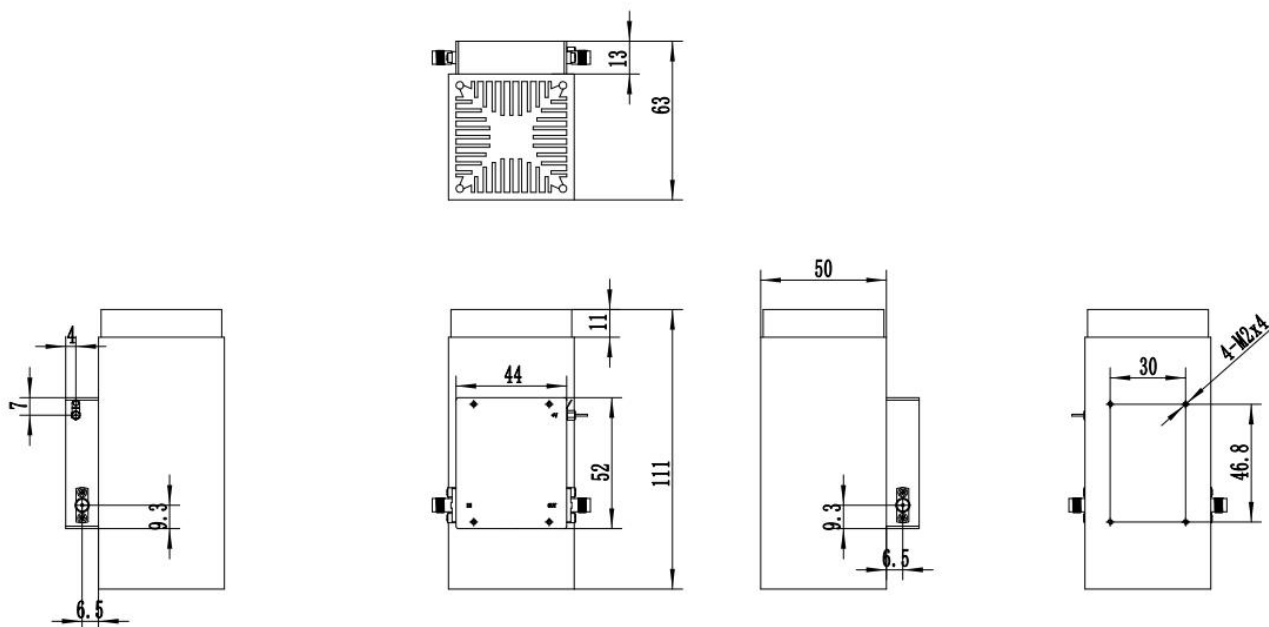
Outline Drawing:

Unit:mm

PA-40G-67G-0.25



PA-40G-67G-0.25-HS



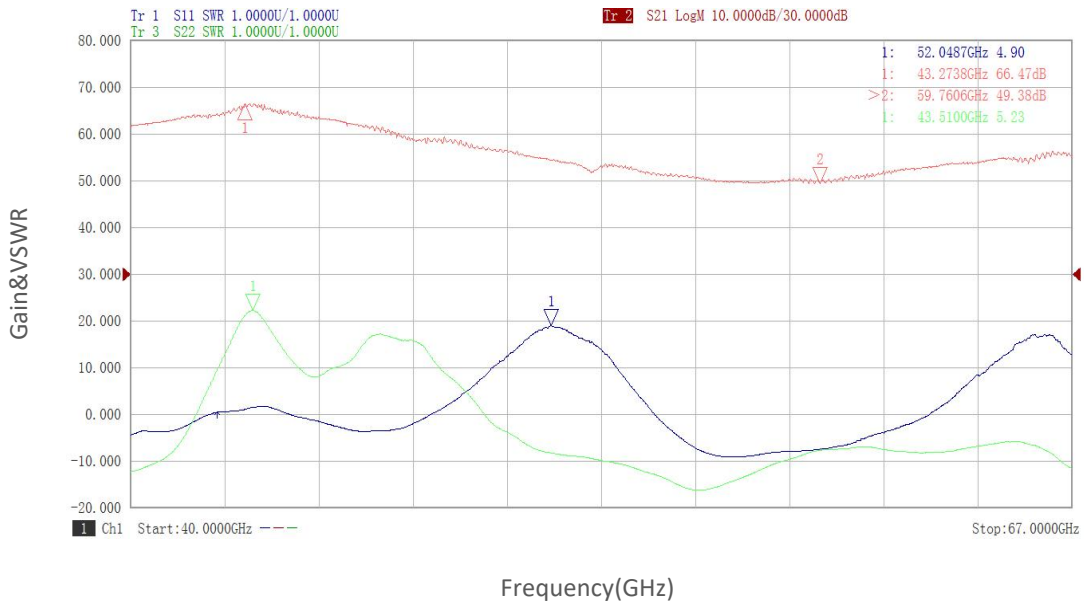


Ordering Information:

Base Number	Description	Optional
PA-40G-67G-0.25	Power Amplifier, 40-67GHz, Gain:51dB,Psat:0.25W,+18V DC	Without Heatsink
PA-40G-67G-0.25-HS	Power Amplifier, 40-67GHz, Gain:51dB,Psat:0.25W,+18V DC	With Heatsink

Typical Performance Data:

Gain&VSWR vs Frequency



Note: Above data is for ref only, actual data may vary from unit to unit depending on operating environment and other factors like material lots etc.