

The PA40G67GV2 is a high-performance wideband AC power amplifier operating across a frequency range of 40 to 67 GHz. It delivers a typical output power of 38 dBm, with a typical small-signal gain of 41 dB and excellent gain flatness of ± 2.0 dB.

Designed for convenience and reliability, the amplifier operates from a standard 110V/220V AC power supply. Both the cooling fan and heatsink are fully integrated within the unit, ensuring efficient thermal management in a compact form factor.

The amplifier features 1.85mm female connectors and supports an operating temperature range of -30°C to $+70^{\circ}\text{C}$, making it suitable for demanding lab and field environments.

Product Features:

- Wide Band Rack mounted Power Amplifier
- Small Signal Gain 41dB Typical
- Output Saturation Power 38dBm
- Supply Voltage 110/220 VAC
- 50 Ohm Matched Input/Output
- Overcurrent Protection



Application:

- Wireless Infrastructure
- Military and Aerospace Applications
- Test Instrumentation
- Radar Systems
- 5G Wireless Communications
- Microwave Radio Systems
- TR Modules
- Research and Development
- Cellular Base Stations

Electrical Specifications ($T_A=+25^{\circ}\text{C}$)

Parameter	Typ	Units
Frequency Range	40 – 67	GHz
Minimum Small Signal Gain	41	dB
Minimum Saturated Output Power (Psat)	38	dBm
Gain Variance (Maximum)	+/-2	dB
Gain Variation Over Temperature	+/-2	dB
Gain adjustment range	15	dB
Gain adjustment step size	0.5	dB
Input Return Loss	-10	dB
Spurious	-40	dBc
Operating voltage	110 to 240	VAC
Supply Current ($V_{cc} = +48\text{VDC}$)	3	A
Weight	20	Kg
Size	310x220x100	mm
Input / Output Impedance	50	Ohms
Input / Output Connectors	1.85mm (F)	

Environmental Specifications and Test Standards

Parameter	Description
Operational Temperature	-30°C to +70°C
Storage Temperature	-50°C to +90°C
Thermal Shock	-40°C to +85°C (5 Cycles / 10 hours)
Random Vibration	MIL-STD-202G
High-Temperature Burn-In	Temperature +85°C for 72 Hours
Shock	1. Weight >20g, 50g half sine wave for 11ms, Speed variation 3.44m/s 2. Weight ≤20g, 100g Half sine wave for 6ms, Speed variation 3.75m/s 3. Total 18 times (6 directions, 3 repetitions per direction).
Altitude	Standard: 30,000 Ft
IP rating	

Handling Precautions



Caution!
ESD-Sensitive Device

RF VOLTAGE HAZARD: Contact with RF fields at the output connector can cause burns or electric shock. High levels of RF/Microwave energy may be present when the unit is operating.

HIGH DC CURRENT HAZARD: High levels of DC current are present when the unit is operating.

Each amplifier is
shipped in a hard and
well-protected carry case.



Contact Information

For the latest specifications, additional product information, worldwide sales and distribution locations:

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