

8-12GHz Broadband Power Amplifier

P/N: MZPA0812GA50W



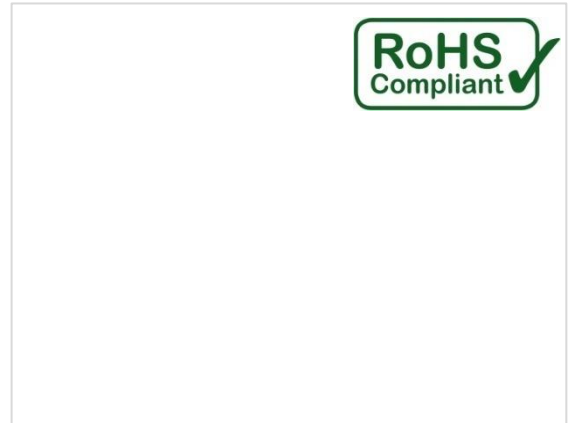
■ Features

- Ultra Wide Band: 8-12GHz
- Gain: 35dB
- Output Power Psat: 47dBm
- Bias: Vd=30V;Id=5A

■ Applications

- Radar Systems
- Communication Systems
- Receivers Systems

■ Electrical Specifications +25 °C



| Parameter | Min. | Typ. | Max | Units |
|-----------------------------------|------|-----------------------|-----|-------|
| Frequency Range | | 8-12 | | GHz |
| Small Signal Gain | 33 | 35 | | dB |
| Gain Flatness | | ±1.5 | ±2 | dB |
| Input VSWR | | 1.5 | 2.0 | - |
| Output Power (CW) | 43 | | | dBm |
| Saturated Output Power (Peak) | 47 | | | dBm |
| Saturation recovery time | | | 100 | ns |
| Noise Figure | | 6 | | dB |
| Spurious | | -60 | | dBc |
| Input Max Power(no damage) | | | 19 | dBm |
| Internally Generated Spurious | | -60 | | dBc |
| DC Current (Vcc=+30V) (@Pout=50W) | | 5 | | A |
| Impedance | | 50 | | Ω |
| Input Output Connector | | SMA-Female/SMA-Female | | |
| Material | | Aluminium | | |
| Weight | | 1000g | | |

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■ Environmental Conditions

| | | | |
|--------------------------------|--------------|------------------|---|
| Operational Temperature | -35°C~+70°C | Vibration | 25g rms (15 degree 2KHz) endurance, 1 hour per axis |
| Storage Temperature | -55°C~+125°C | Shock | 20G for 11msc half sin wave, 3 axis both directions |
| Executive Standard | MIL-STD-810G | Humidity | 100% RH at 35c, 95%RH at 40°C |

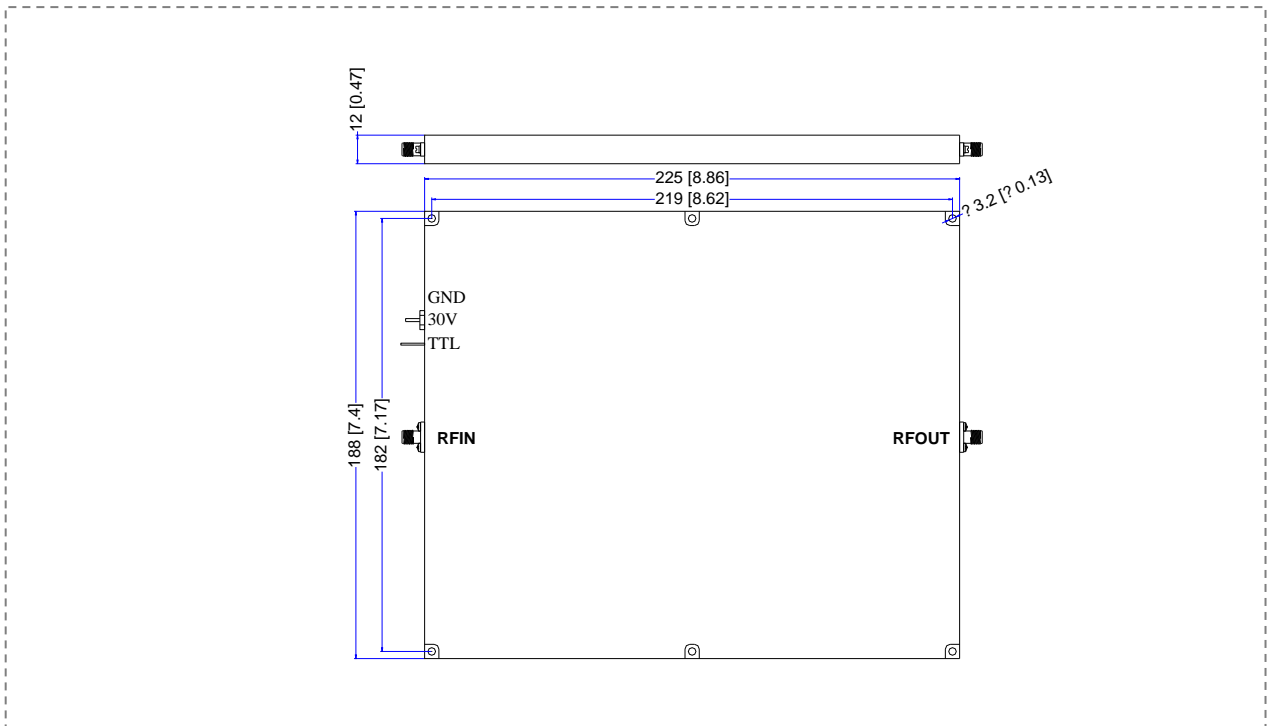
■ Absolute Maximum Ratings

| | |
|------------------------------|----------------------|
| Supply Bias Voltage | +32V |
| RF INPUT POWER | +19dBm |
| ESD sensitivity (HBm) | Class 0, passed 150V |



■ Outline Drawing

All Dimensions in mm (inches) Tolerance ±0.25 (0.01)



*****Heat Sink required during operation*****

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