

14.4-15.4GHz 10W Power Amplifier

P/N: MZPA144154GA10W



■ Features

- Ultra Wide Band: 14.4-15.4GHz
- Gain: 30dB
- Output Power P-1: 40dBm
- Bias: Vd=30V;Id=2A

■ Applications

- Radar Systems
- Communication Systems
- Receivers Systems

■ Electrical Specifications +25 °C



Parameter	Min.	Typ.	Max	Units
Frequency Range	14.4-15.5			GHz
Small Signal Gain		30		dB
Gain Flatness		± 1		dB
Input VSWR		1.5	2.0	-
Output Power for 1 dB Compression (P1dB)	40	40.5		dBm
Saturated Output Power (Psat)		41		dBm
Input Max Power(no damage)			18	dBm
Internally Generated Spurious		-60		dBc
DC Current (Vcc=+30V) (@Pout=10W)		2		A
Impedance	50			Ω
Input Output Connector	SMA-Female/SMA-Female			
Material	Aluminium			
Weight	300g			
Dimension	100X113.5X12mm			

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■ Environmental Conditions

Operational Temperature	-45°C~+85°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

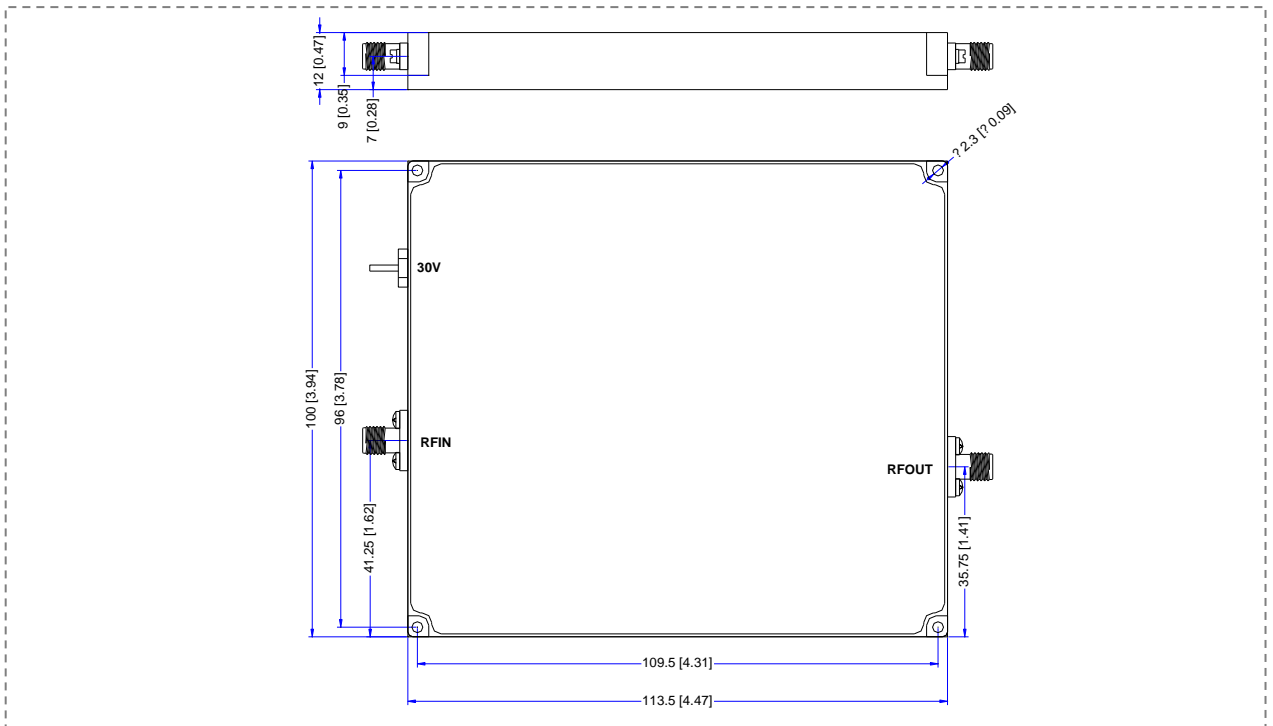
■ Absolute Maximum Ratings

Supply Bias Voltage	+30V
RF INPUT POWER	+18dBm
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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