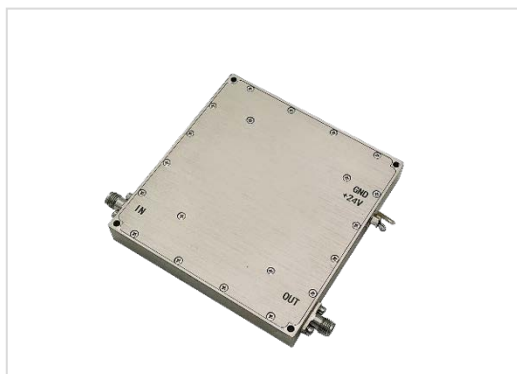


MODEL HIPA07124546

7.8-12.2GHz Power Amplifier



Note: The photo is for illustration purposes only. Please refer to outline drawing

■ Features

- Ultra Wide Band: 7.8-12.2GHz
- Gain: 45dB
- Output Power Psat: 47dBm
- Bias: Vd=30V;Id=5A

■ Applications

- Radar Systems
- Communication Systems
- Receivers Systems

□ Electrical Specifications

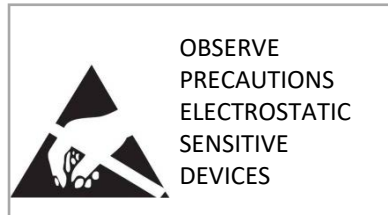
Parameter	Min.	Typ.	Max	Units
Frequency Range	7.8-12.2			GHz
Small Signal Gain	40	45		dB
Gain Flatness		±1.5	±2	dB
Input VSWR		1.5	2.0	-
Output Power (CW)	43			dBm
Saturated Output Power (Peak)	46			dBm
NF		8		dB
Spurious		-60		dBc
Input Max Power(no damage)			10	dBm
Internally Generated Spurious		-60		dBc
Control TTL	Enable: TTL "High" Disable: TTL "Low"			
DC Current (Vcc=+30V) (@Pout=40W)		5		A
Function	Over Current & Over temperature protection			
Impedance	50			Ω
Input Output Connector	SMA-k/SMA-K			
Material	Aluminium			
Weight	1000g			

Environmental Conditions

Operational Temperature	-25°C~+65°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

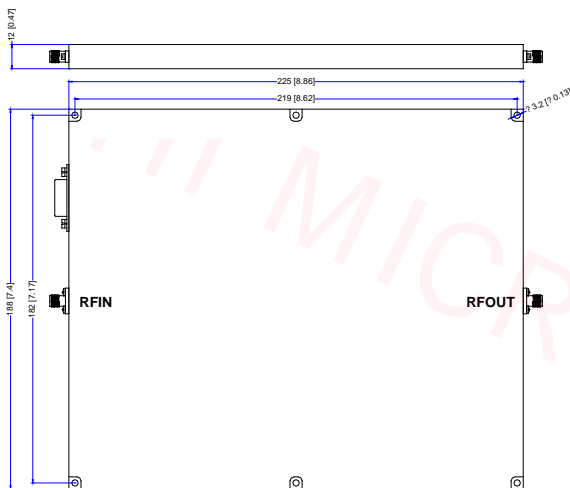
Absolute Maximum Ratings

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)



Pin#	Pin Function
1,2	Vdc
3,4	GND
5	Enable: TTL "High" Disable: TTL "Low"
6	VVA Preferable (optional)
7,8,9	NC

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