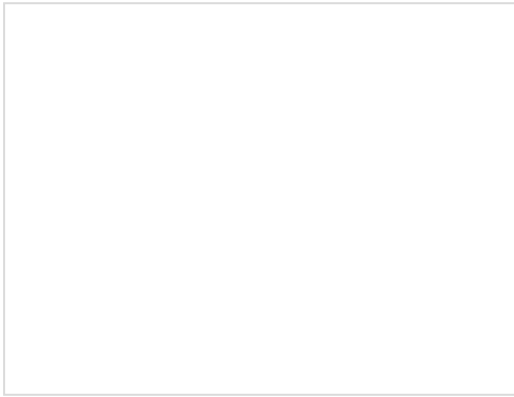




# MODEL HIPA04085050

## 4-8GHz Power Amplifier



### ■ Features

- Ultra Wide Band: 4-8GHz
- Gain: 50dB
- Output Power Psat: 50dBm

### ■ Applications

- Radar Systems
- Communication Systems
- Receivers Systems

### □ Electrical Specifications

Parameter	Min.	Typ.	Max	Units
Frequency Range	4-8			GHz
Small Signal Gain		50		dB
Power Gain Flatness		$\pm 1.5$	$\pm 2$	dB
Input /Output VSWR		1.5	2.0	-
Output Power for 1 dB Compression (P1dB)		48		dBm
Saturated Output Power (Psat)	50			dBm
Input Max Power(no damage)			5	dBm
Harmonics		-15		dBc
Spurious Non-harmonics	-60			dBc
DC Current (Vcc=+30V) (@Pout=100W)		15		A
Impedance	50			$\Omega$
Input/ Output Connector	SMA-k/N-K			
Material	Aluminium			
Weight	3000g			
Dimension	200X192X125mm With Heatsink and Fan			

### Environmental Conditions

<b>Operational Temperature</b>	-25°C~+60°C	<b>Vibration</b>	25g rms (15 degree 2KHz) endurance, 1 hour per axis
<b>Storage Temperature</b>	-55°C~+125°C	<b>Shock</b>	20G for 11msc half sin wave, 3 axis both directions
<b>Executive Standard</b>	MIL-STD-810G	<b>Humidity</b>	100% RH at 35c, 95%RH at 40°C

### Absolute Maximum Ratings

<b>Supply Bias Voltage</b>	+32V
<b>RF INPUT POWER</b>	+10dBm
<b>ESD sensitivity (HBm)</b>	Class 0, passed 150V

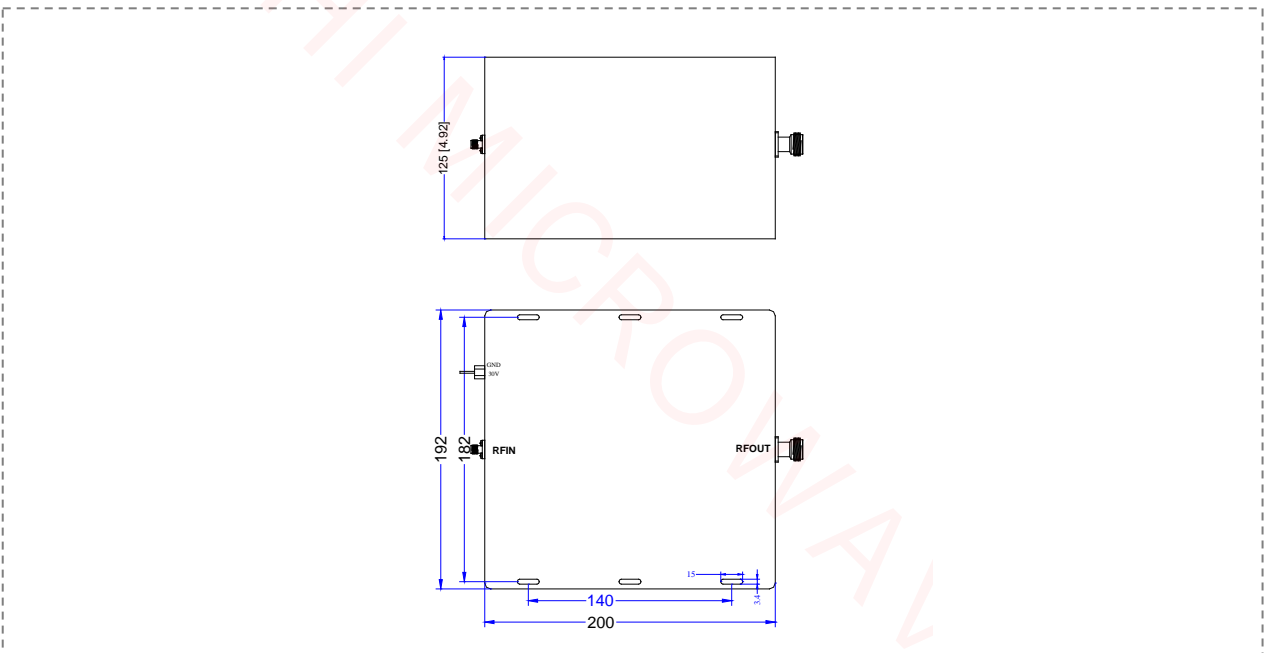


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### Outline Drawing

All Dimensions in mm ( inches ) Tolerance  $\pm 0.25$  ( 0.01 )



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