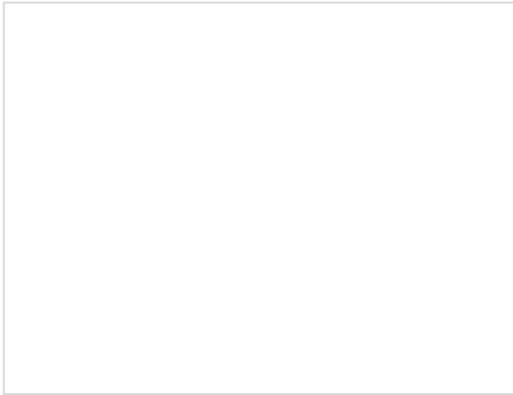




MODEL HIPA08104050

8-10.5GHz Power Amplifier



■ Features

- Ultra Wide Band: 8-10.5GHz
- Gain: 40dB
- Output Power Psat: 50dBm
- Bias: Vd=30V;Id=8A

■ Applications

- Radar Systems
- Communication Systems
- Receivers Systems


□ Electrical Specifications

Parameter	Min.	Typ.	Max	Units
Frequency Range	8-10.5			GHz
Small Signal Gain	40	42		dB
Gain Flatness		± 1.5	± 2	dB
Input VSWR		1.5	2.0	-
Output Power P-1 (CW)	49			dBm
Saturated Output Power Past	50			dBm
NF		10		dB
Spurious		-60		dBc
Input Max Power(no damage)			15	dBm
Control TTL	Enable: TTL "High" Disable: TTL "Low"			
DC Current (Vcc=+30V) (@Pout=100W)		8		A
Function	Over Current & Over temperature protection			
Impedance	50			Ω
Input Output Connector	SMA-k/N-K			
Material	Aluminium			
Weight	4kg			
Outline Size	120mmX55mmX160mm			

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	 <p>OBSERVE PRECAUTIONS ELECTROSTATIC SENSITIVE DEVICES</p>
RF INPUT POWER	+15dBm	
ESD sensitivity (HBm)	Class 0, passed 150V	



Outline Drawing

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

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

Heat Sink required during operation