

MODEL HIPA12183633

12-18GHz Power Amplifier



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

■ Features

- Ultra Wide Band: 12-18GHz
- Gain: 35dB
- Output Power Psat: 33dBm

■ Applications

- Radar Systems
- Communication Systems
- Receivers Systems

□ Electrical Specifications

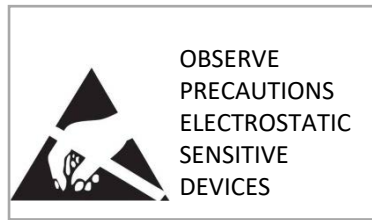
Parameter	Min.	Typ.	Max	Units
Frequency Range	12-18			GHz
Small Signal Gain	33	36		dB
Gain Flatness		± 1.5		dB
Input VSWR		1.8		-
Output VSWR		1.8		-
Output Power for 1 dB Compression (P1dB)	31			dBm
Saturated Output Power (Psat)	33	34		dBm
Input Max Power(no damage)			10	dBm
DC Current (Vcc=12V) (@Pout=2W)		1.5	2	A
Impedance	50			Ω
Input Output Connector	SMA-K			
Material	Aluminium/Gold Painting			
Weight	-			
Dimension	With Heatsink			

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

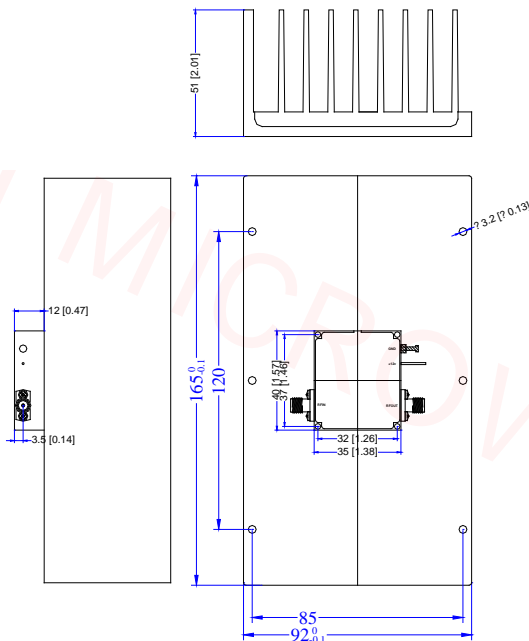
Absolute Maximum Ratings

Supply Bias Voltage	+13V
RF INPUT POWER	10dBm
ESD sensitivity (HBm)	Class 0, passed 150V



Outline Drawing

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



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