

# MODEL HIPA40454033

## 40-45GHz Power Amplifier



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

### ■ Features

- Ultra Wide Band: 40-45GHz
- Gain: 40dB
- Output Power Psat: 33dBm
- Bias: 28V/1.5A

### ■ Applications

- Radar Systems
- Communication Systems
- Receivers Systems

### □ Electrical Specifications

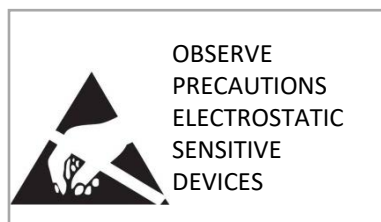
Parameter	Min.	Typ.	Max	Units
Frequency Range	40-45			GHz
Small Signal Gain	40			dB
Gain Flatness		± 2		dB
Input VSWR		2.0		-
Output Power for 1 dB Compression (P1dB)		33		dBm
Saturated Output Power (Psat)		34		dBm
Input Max Power(no damage)			0	dBm
Internally Generated Spurious		-60		dBc
Supply DC power(+28V)		3		A
Impedance	50			Ω
Input Output Connector	2.4-K			
Material	Aluminium			
Weight	80g			

### Environmental Conditions

<b>Operational Temperature</b>	-25°C~+65°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>	28V
<b>RF INPUT POWER</b>	0dBm
<b>ESD sensitivity (HBm)</b>	Class 0, passed 150V



### Outline Drawing

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

