MODEL HIPA18403527

18-40GHz Broadband Power Amplifier

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

■ Features

- Ultra Wide Band: 18-40GHz
- Gain: 35dB
- Output Power Psat: 27dBm
- Bias: Vd=12V;Id=1A

■ Applications

- Radar Systems
- Communication Systems
- Receivers Systems

□ Electrical Specifications

Parameter	Min.	Typ.	Max	Units
Frequency Range		18-40		GHz
Small Signal Gain	30	35		dB
Gain Flatness		±2.5		dB
Input VSWER		2.0		-
Output VSWER		2.0		-
Output Power for 1 dB Compression (P1dB)		27		dBm
Saturated Output Power (Psat)		28		dBm
NF		6		dB
Input Max Power(no damage)			0	dBm
DC Current (Vcc=+12V) (@Pout=0.5W)		0.9	1.2	A
Impedance		50		Ω
Input Output Connector		2.92		
Material		Aluminium/Gold Painting		
Weight		200g		
Dimension		50X45X12mm		

MODEL HIPA18403527
18-40GHz Broadband Power Amplifier

☐ Environmental Conditions

Operational Temperature	-45℃~+85℃	**Vibration**	25g rms (15 degree 2KHz) endurance, 1 hour per axis
Storage Temperature	-55℃~+125℃	**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℃

☐ Absolute Maximum Ratings

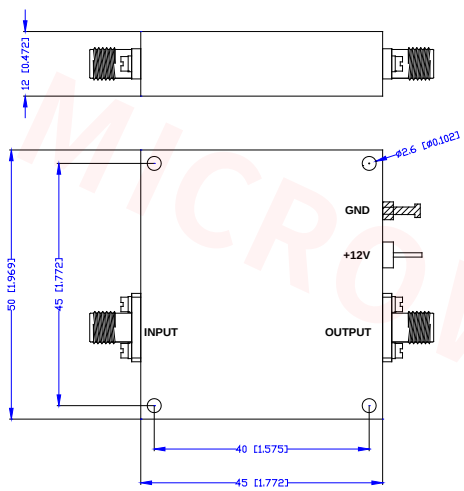
Supply Bias Voltage	+15V
RF INPUT POWER	0dBm
ESD sensitivity (HBm)	Class 0, passed 150V

OBSERVE PRECAUTIONS ELECTROSTATIC SENSITIVE DEVICES

RoHS Compliant

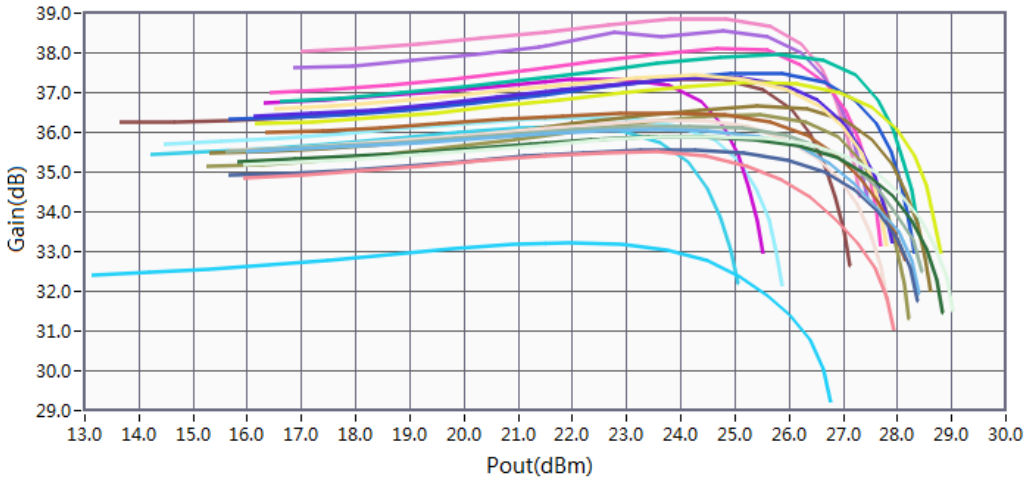
☐ Outline Drawing

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

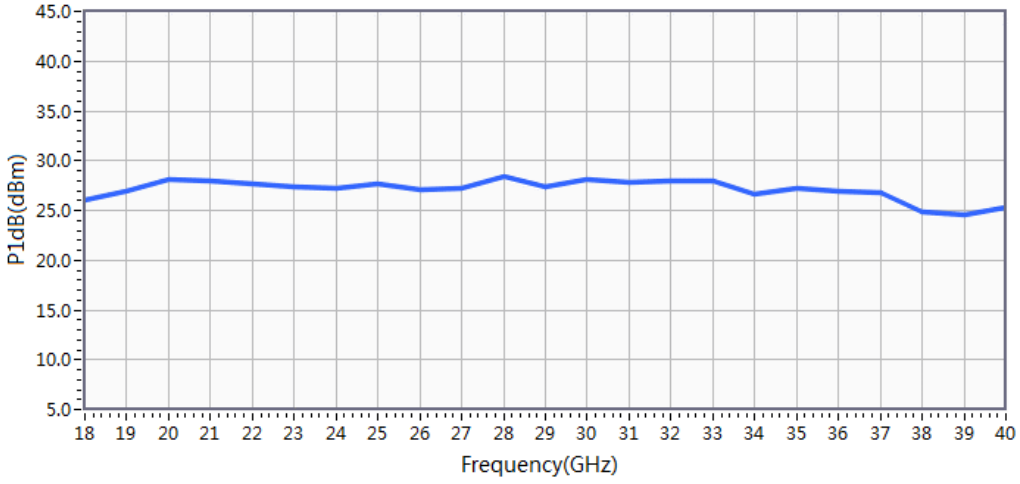


Heat Sink required during operation

Gain vs. Pout



P1dB vs. Frequency



P3dB vs. Frequency