

MODEL HIPA17431825

17-43GHz Broadband Power Amplifier



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

■ Features

- Ultra Wide Band: 17-43GHz
- Gain: 20dB
- Output Power Psat: 25dBm
- Bias: Vd=12V;Id=0.45A

■ Applications

- Radar Systems
- Communication Systems
- Receivers Systems

□ Electrical Specifications

Parameter	Min.	Typ.	Max	Units
Frequency Range	17-43			GHz
Small Signal Gain	18			dB
Gain Flatness		±2.5		dB
Input VSWR		2.0		-
Output VSWR		2.0		-
Output Power for 1 dB Compression (P1dB)	23	24		dBm
Saturated Output Power (Psat)		25		dBm
Input Max Power(no damage)			10	dBm
DC Current (Vcc=+12V) (@Pout=25dBm)		0.5	0.6	A
Impedance	50			Ω
Input Output Connector	2.92			
Material	Aluminium/Gold Painting			
Weight	50g			
Package Sealing	General Sealing (Standard) Hermetically sealed(Optional)			

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

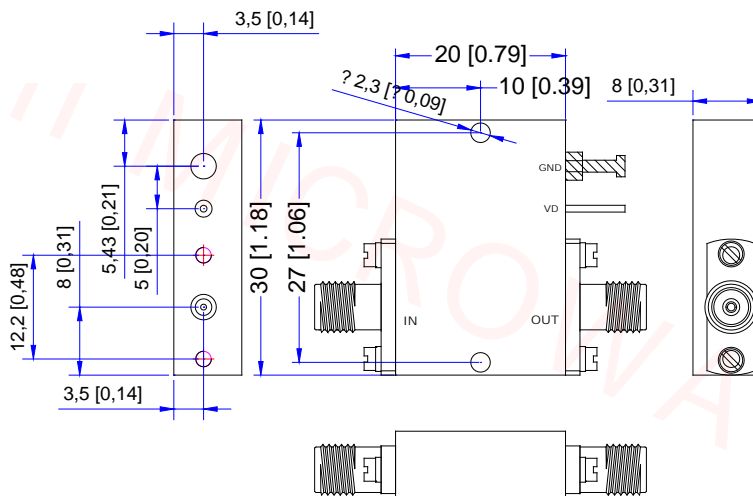
Absolute Maximum Ratings

Supply Bias Voltage	+15V
RF INPUT POWER	10dBm
ESD sensitivity (HBm)	Class 0, passed 150V



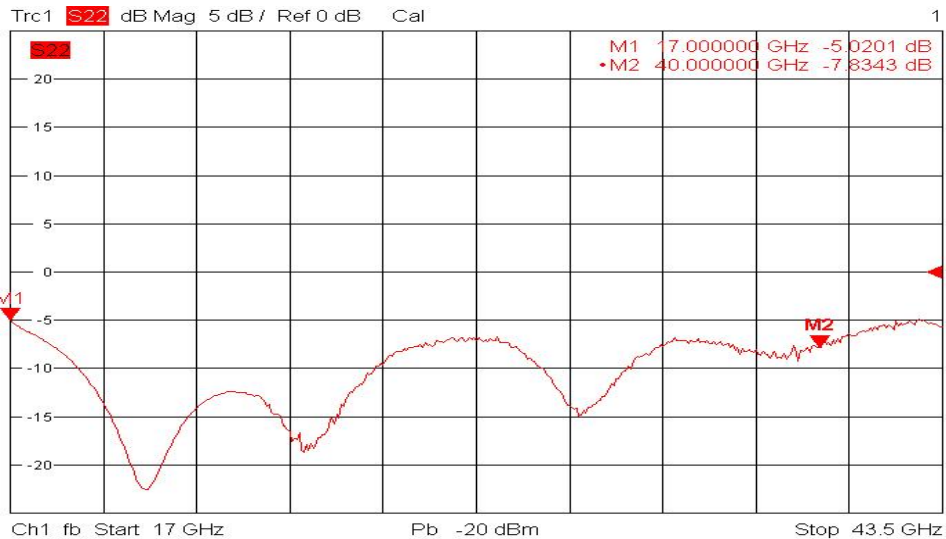
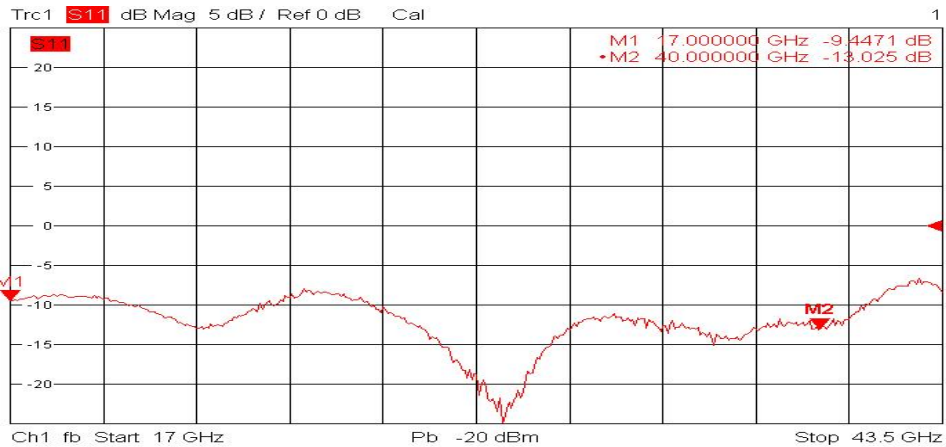
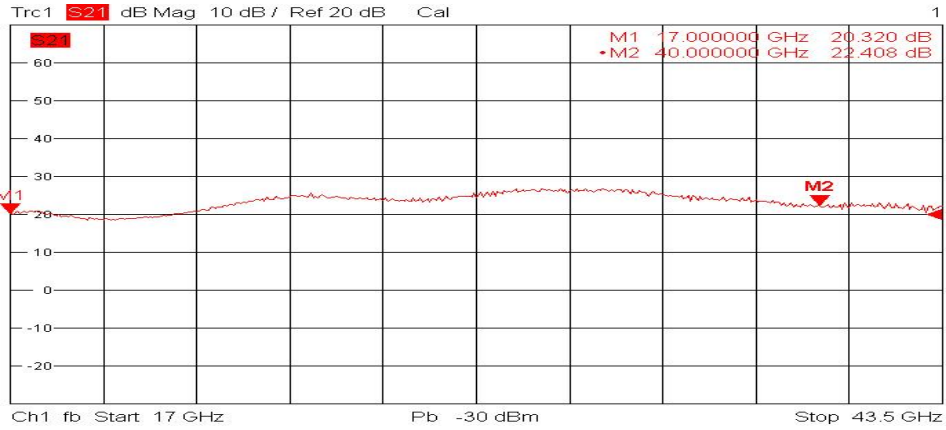
Outline Drawing

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



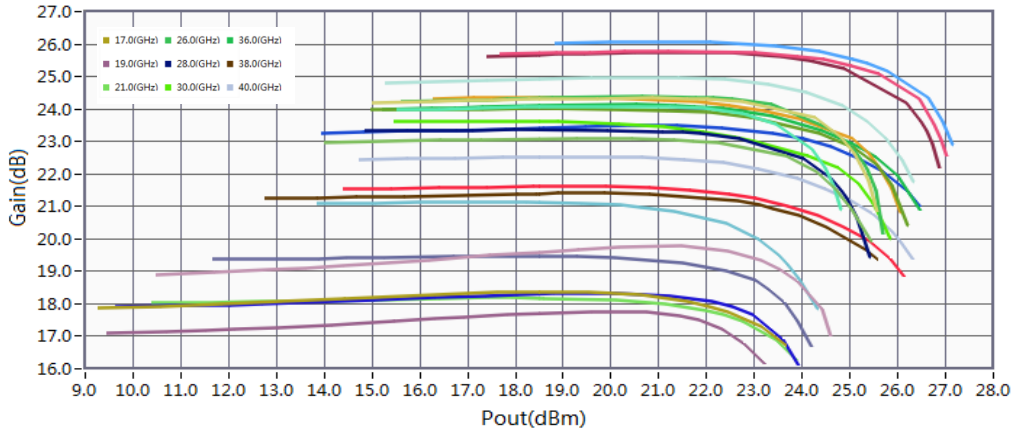
*****Heat Sink required during operation*****

Typical output parameter

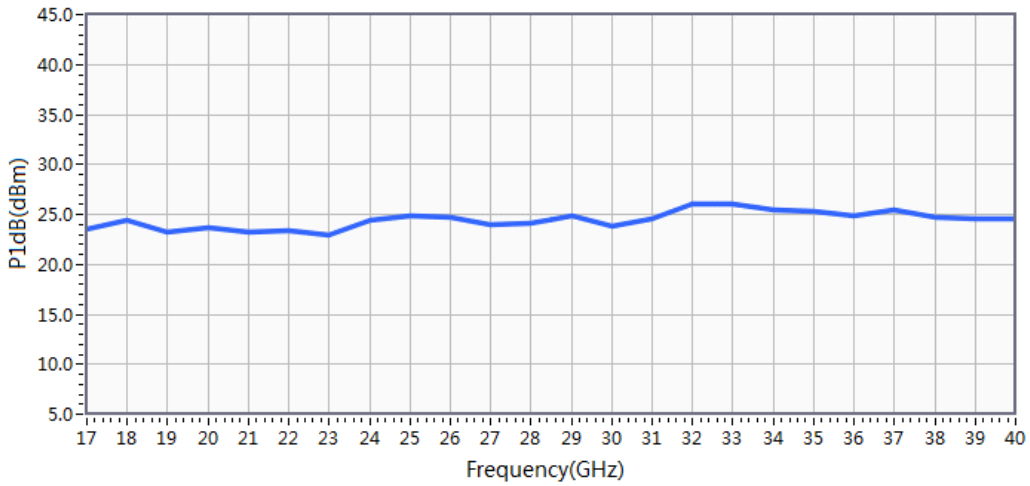


Typical output parameter

Gain vs. Pout



P1dB vs. Frequency



P3dB vs. Frequency

