



Power Amplifier

Model: PA-37G-42G-0.25

37-42GHz 0.25W CW

Ultrabroad frequency range, high performance and exceptional RF characteristics

Features:

- Frequency range: 37-42GHz
- High output power at saturation, 0.25W Typ.
- High gain, 36 dB Typ.
- 50 Ohm Matched Input / Output.

Applications:

- Cellular
- PCN
- GSM
- ISM
- Lab Test

Product Overview:

The PA-37G-42G-0.25 is a power amplifier with a typical gain of 36 dB and a nominal Psat of 0.25W across the frequency range of 37 to 42GHz. The DC power requirement for the amplifier is +12 VDC/1 A. The input and output port configuration offers coax adapter structure with 2.4mm female.



Electrical Specifications at 25°C:

Parameter	Min	Typ	Max	Units
Frequency range	37		42	GHz
Gain		36		dB
Gain Flatness			±2	dB
Output P1dB		23		dBm
Output Psat		24		dBm
Input VSWR		1.8	2.5	:1
Output VSWR		1.8	2.5	:1
DC Voltage		+12		V DC
DC Supply Current		1		A
Impedance		50		Ohms

Mechanical Specifications:

Parameter	Value	Notes
Operating Temperature*	-40°C to +60°C	
Non-operating Temperature*	-50°C to +70°C	
Relative humidity	95%	
RF Input/Output Connector	2.4mm Female/2.4mm Female	
DC Bias	Solder Pin	
Altitude	10,000@Min;30,000@Max	feet
Shock / Vibration(MIL-STD-810F)	Airborne	
Shock(non operating)	20G for 11msc half sin wave,3 axis both directions	
Dimensions W x H x D	60*50*12	mm

*Note: For a wider temperature range, please consult the manufacturer.

Absolute Maximum Ratings:

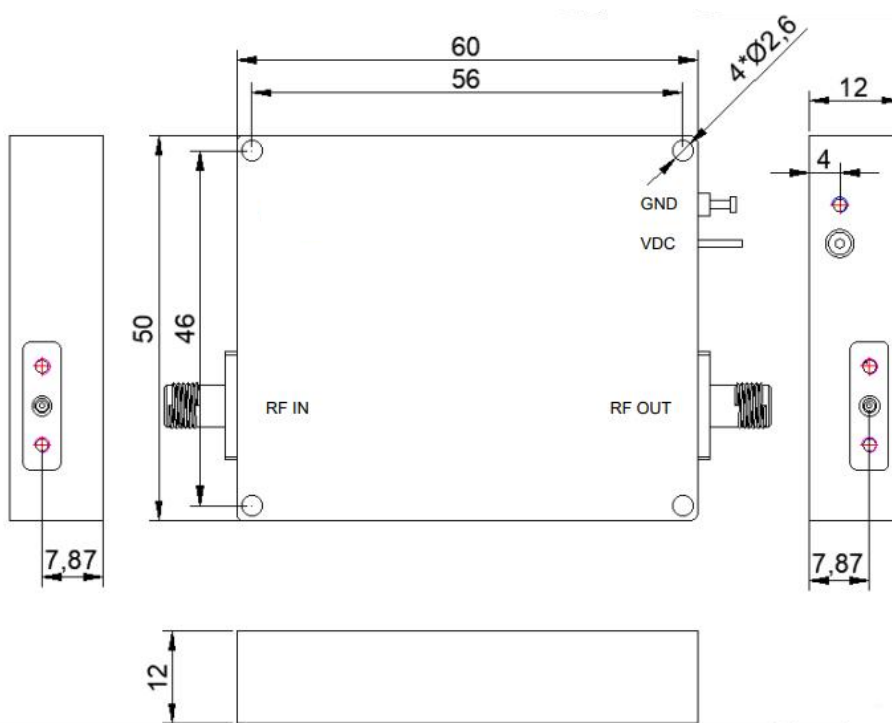
Parameter	Value
Supply Bias Voltage	TBD
RF Input Power	-5 dBm
ESD sensitivity (HBm)	Class 0, passed 150V



Outline Drawing:

Unit:mm

PA-37G-42G-0.25



Ordering Information:

Base Number	Description	Optional
PA-37G-42G-0.25	Power Amplifier, 37-42GHz, Gain:36dB,Psat:0.25W,+12V DC	Without Heatsink
PA-37G-42G-0.25-HS	Power Amplifier, 37-42GHz, Gain:36dB,Psat:0.25W,+12V DC	With Heatsink