

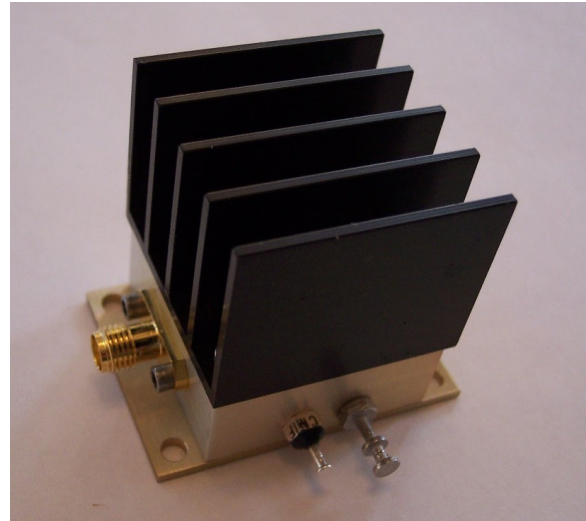
MGA Series

400MHz – 470MHz 1W RF Amplifier

Features

- Frequency Range: 400 - 470MHz
- Gain: 14dB
- P_{1dB}: +30dBm
- IP3: +44dBm
- Noise Figure: 6.5dB
- Input VSWR: 1.3:1
- Output VSWR: 1.2:1
- DC Power: 12V/360mA
- SMA Connector

Picture



Description

MGA-430 is a 1W output 14dB Gain RF Amplifier operates with frequency range from 400MHz to 470MHz.

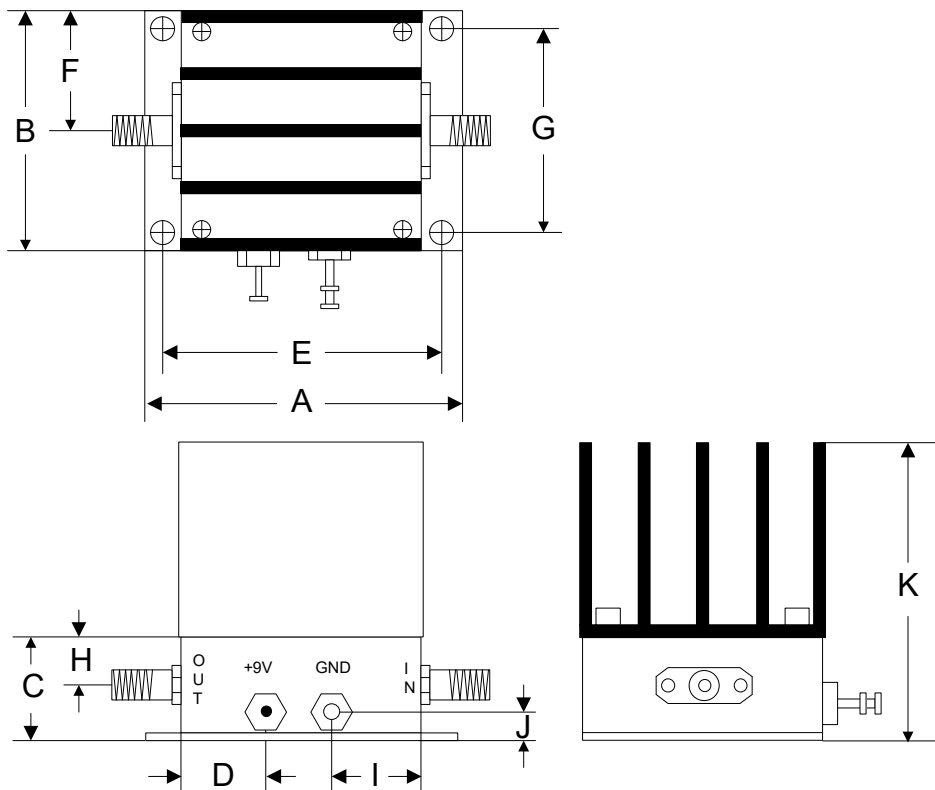
Electrical Specifications @ +25 °C, Z_s = Z_L = 50 Ω, V_{cc}=+12V

| Parameter | Unit | Minimum | Typical | Maximum |
|--|------|---------|----------------|---------|
| Frequency Range | MHz | 400 | | 470 |
| Gain | dB | | 14 | |
| P _{1dB} | dBm | | +30 | |
| IP3 at 430MHz | dBm | | +44 | |
| Noise Figure at 430MHz | dB | | 6.5 | |
| Reverse Isolation | dB | | -20 | |
| VSWR f = 400-470MHz Input VSWR Output VSWR | | | 1.3:1 1.2:1 | |
| DC Power Supply | V | | 12 | |
| Supply Current | mA | | 360 | |

Absolute Maximum Ratings

| Parameter | Absolute Maximum |
|-----------------------|-------------------|
| RF Input Power | +16dBm |
| Supply Voltage | +13V |
| Operating Temperature | -40 °C to +85 °C |
| Storage Temperature | -55 °C to +100 °C |

Outline



| | A | B | C | D | E | F | G | H | I | J | K |
|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Inch | 1.250 | 1.250 | 0.563 | 0.450 | 1.000 | 0.625 | 1.000 | 0.250 | 0.500 | 0.187 | 1.563 |
| mm | 31.75 | 31.75 | 14.29 | 11.43 | 25.40 | 15.88 | 25.40 | 6.35 | 12.70 | 4.76 | 39.70 |