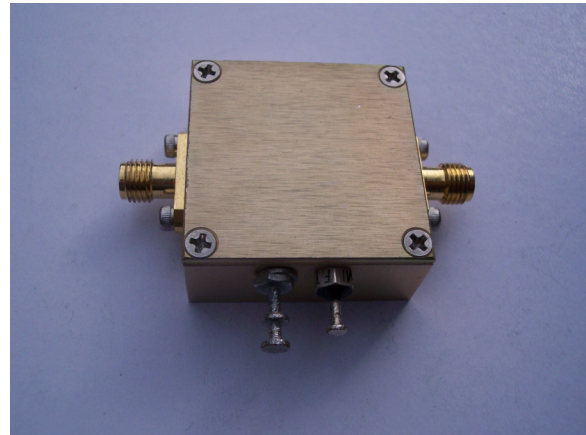


HD24651

50MHz – 90MHz RF Amplifier

Features

- Frequency Range: 50 - 90MHz
- Gain: 10dB
- P_{1dB}: +10dBm
- IP3: +20dBm
- Noise Figure: 4dB
- DC Power: 12V
- SMA Connector



Performance measured @ 70MHz

Description

HD24651 is a 10dB gain, RF Amplifier operates with frequency range from 50MHz to 90MHz.

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

| Parameter | Unit | Minimum | Typical | Maximum |
|--------------------------------|---|-----------------------|----------------|----------------|
| Frequency Range | MHz | 50 | | 90 |
| Small Signal Gain | f = 50MHz f = 70MHz f = 90MHz | dB dB dB | 10 10 10 | |
| P _{1dB} | dBm | | +10 | |
| IP3 | dBm | | +20 | |
| Noise Figure | dB | | 4.0 | |
| Reverse Isolation | dB | | -30 | |
| VSWR | f = 50 - 90MHz Input VSWR Output VSWR | | 1.3:1 1.4:1 | 2.0:1 2.0:1 |
| DC Power Supply | V | 10 | 12 | 15 |
| Supply Current | mA | | 60 | |
| Size (Excluding SMA Connector) | inch | 1.25" x 1.25" x 0.56" | | |
| Weight | Oz. | 1.5 | | |

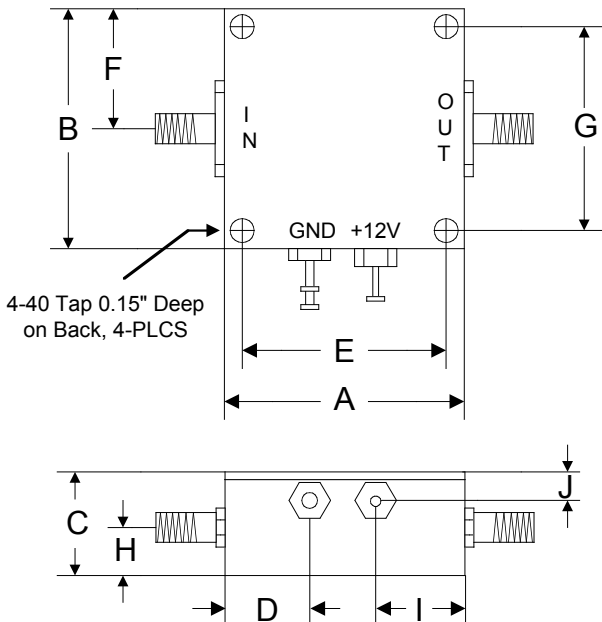
HD24651

50MHz – 90MHz RF Amplifier

Absolute Maximum Ratings

| Parameter | Absolute Maximum |
|-----------------------|-------------------|
| RF Input Power | +15dBm |
| Supply Voltage | +16V |
| 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 |
|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Inch | 1.250 | 1.250 | 0.563 | 0.450 | 1.000 | 0.625 | 1.000 | 0.250 | 0.500 | 0.187 |
| mm | 31.75 | 31.75 | 14.29 | 11.43 | 25.40 | 15.88 | 25.40 | 6.35 | 12.70 | 4.76 |