

AFB-E27HP-01

60 to 90 GHz E-band Low-Noise Power Amplifier

Description

Model AFB-E27HP-01 is an ultra-broadband, low-noise power amplifier which covers the entire millimeter-wave E-band. It exhibits a typical 27 dB gain and 6.0 dB noise figure across the 60 to 90 GHz range, with a minimum saturated power of 16 dBm. Employing GaAs HEMT Monolithic-Microwave-Integrated-Circuit (MMIC) technology, the amplifiers operate from a single bias supply of +5 Vdc to +12 Vdc with an internal voltage regulator and bias sequencing circuitry, drawing 250 mA of DC current. This full E-band LNPA is ideal for applications and research occurring in the 60 to 90 GHz frequency range.

Features

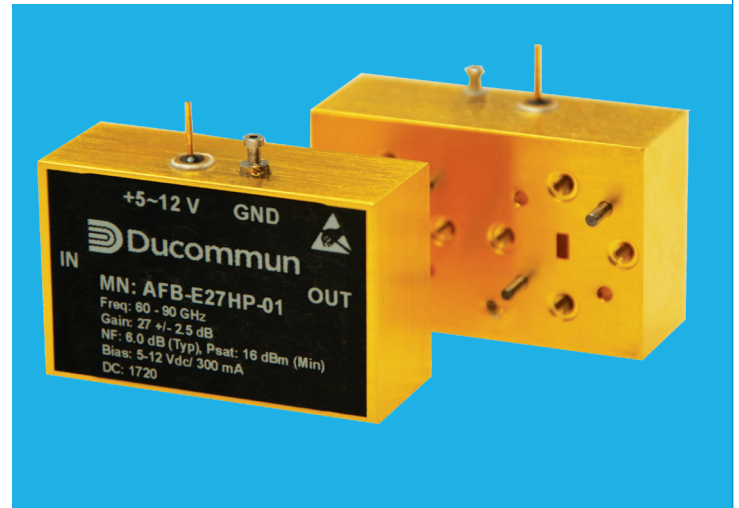
- Full E-band coverage
- Flat gain/Low noise/High power
- Single DC power supply/internal regulated sequential biasing

Applications

- Test & medical instrumentation
- E-band telecommunications
- Remote sensing and imaging
- Astronomy

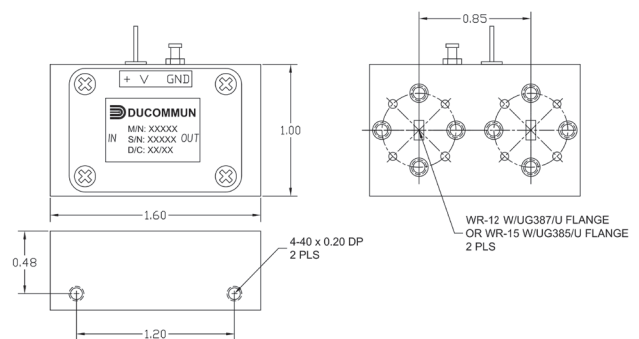
Specifications

| | |
|--------------------|---------------------------|
| Frequency: | 60 to 90 GHz |
| Gain: | 27 dB nominal |
| Gain flatness: | +/- 2.5 dB typical |
| Psat: | 16 dBm minimum |
| NF: | 6.0 dB typical |
| VSWR: | 2:1 typical |
| DC Bias: | +5 ~ 12 V/300mA |
| I/O Connectors: | WR-12 with UG387/U Flange |
| Outline: | WT-A-5 |
| Temperature Range: | -40 to +70 °C |



Outline

Dimensions are in inches



Typical Performance

