Ducommun

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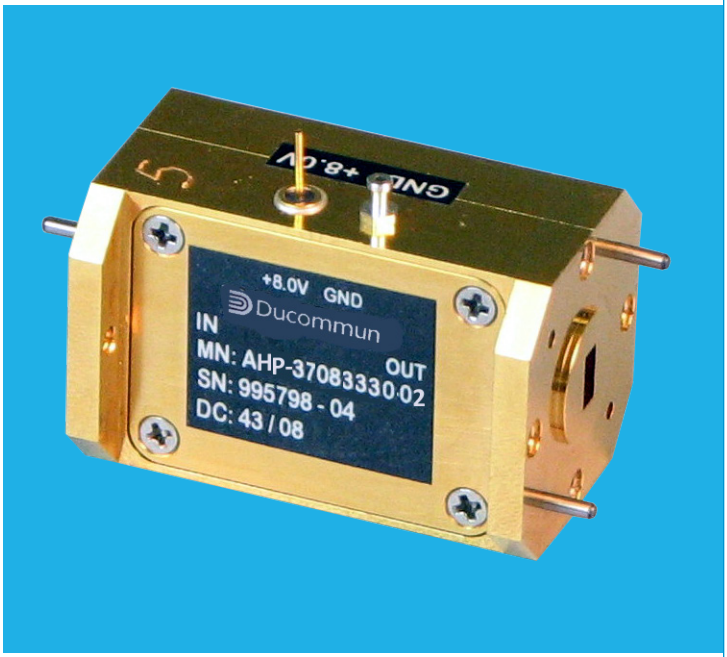
AHP-37083330-02
33 to 42 GHz 2 Watt Power Amplifier

Description

Model AHP-37083330-02 is a high power amplifier operating nominally in the 33 to 42 GHz range. It generates over 2 watts of saturated power over the range and provides over 30 dB of small signal gain. Employing Monolithic-Microwave-Integrated-Circuit (MMIC) technology, the amplifier operates from a single bias supply of +8 Vdc to +12 Vdc with an internal voltage regulator and bias sequencing circuitry, consuming about 2.0 A of DC current under linear operation. The amplifier is ideal for applications such as SATCOM, radars and point-to-point radios.



Features

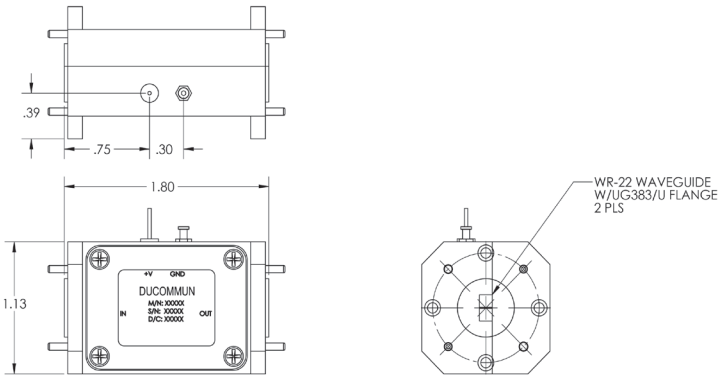
- High power
- Single DC power supply/internal regulated sequential biasing
- Compact size and light weight

Applications

- Satellite communications
- Point-to-point radios
- Radar front
- Military and space

Outline

Dimensions are in inches



Specifications

Frequency:	33 to 42 GHz
Gain:	30 dB minimum
Gain flatness:	10 dBp-p maximum in 33-42 GHz
	3 dBp-p maximum in 37-41 GHz
Output Psat:	33 dBm minimum in 33-41 GHz
	31 dBm minimum in 41-42 GHz
VSWR:	2:1 typical
DC bias:	+8 to 12 V/2 A typical
I/O connectors:	WR-22 with UG599/U flange
Outline:	WT-A-11
Temperature range:	-40 to +70 °C