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AHP-12123657-S1

6 to 18 GHz 5 Watt High Power Amplifier

Description

Model AHP-12123657-S1 is a high power amplifier operating nominally in the 6 to 18 GHz range. It generates a typical 5 watts of linear power over the range and provides over 57 dB of small signal gain. Employing GaAs Monolithic-Microwave-Integrated-Circuit (MMIC) technology, the amplifier operates from a single bias supply of +10 Vdc to +15 Vdc with an internal voltage regulator and bias sequencing circuitry, consuming about 5.0 A of DC current under linear operation. The amplifier is ideal for applications such as SATCOM, radars and point-to-point radios.

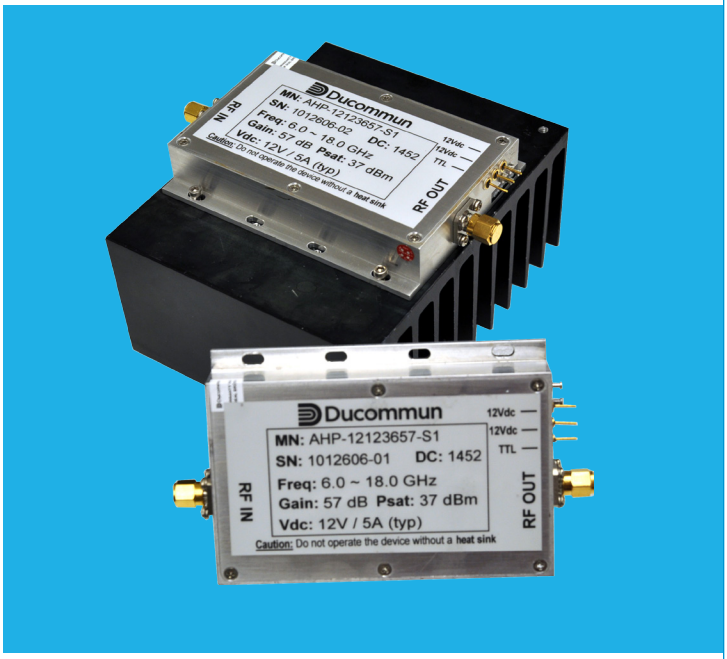
The HPA is in a compact 4.0" x 3.0" x 0.7" aluminum package with SMA (F) connectors and can be turned "ON/OFF" by a TTL signal.

Features

- High power/High gain
- Single DC power supply/internal regulated sequential biasing
- Turn "On/Off" by TTL

Applications

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

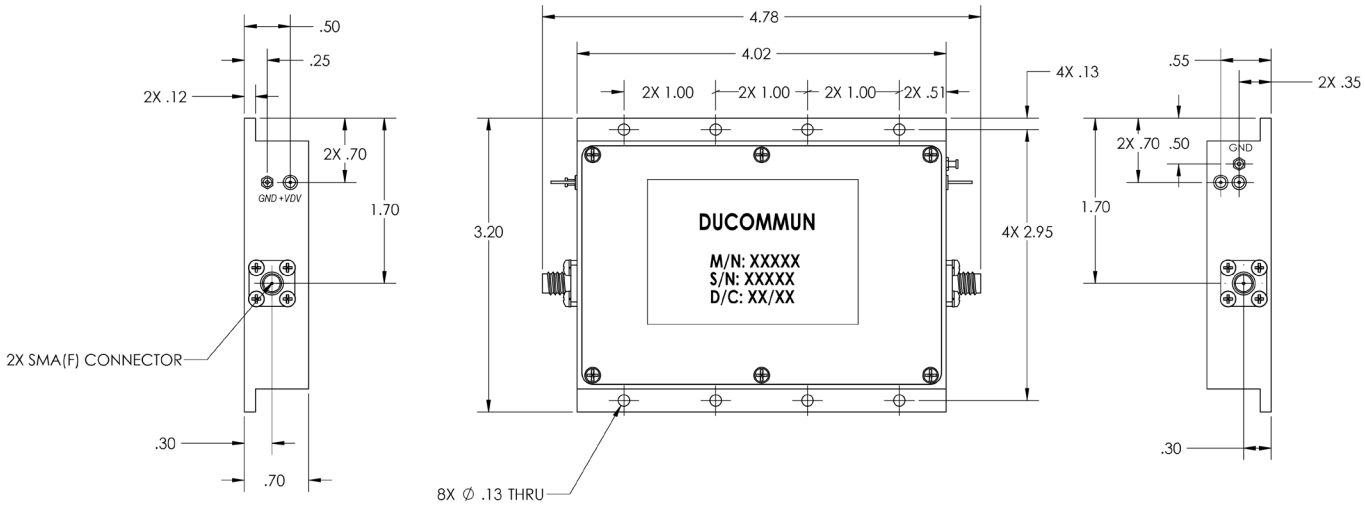


Specifications

Frequency:	6 to 18 GHz
Small signal gain:	57 dB minimum
Gain flatness:	+/- 2.5 dB typical
	+/- 4.0 dB maximum
Psat:	37 dBm typical
P1dB:	36 dBm minimum
Noise figure:	3.0 dB maximum
On/Off control:	TTL, "1" - On
	TTL, "0" - Off
I/O VSWR:	2.0 : 1 typical
DC bias:	+10 to 15 V/5 A typical
I/O connectors:	SMA (F)
Operating temp:	-40 to +60 °C
Dimension:	4.0" x 3.0" x 0.7"

Outline

Dimensions are in inches



Performance Chart