

AHP-33142530-01

26.5 to 40 GHz Ka-band Power Amplifier

Description

Model AHP-33142530-01 is a power amplifier designed to cover the entire Ka band 26.5 to 40 GHz. It provides small signal gain of over 30 dB across the frequency range, with larger than +25 dBm output power at 1-dB compression. 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 1 A of DC current. The amplifier is ideal for those who are seeking broadband power in Ka band.



Features

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

Specifications

Frequency:	26.5 to 40 GHz
Gain:	30 dB (Min)
Gain flatness:	+/- 2.0 dB (Max)
Noise figure:	6.0 dB (Max)
Output P-1dB:	25 dBm (Min)
Output Psat:	29 dBm (Typ)
VSWR:	2:1 (Typ)
DC Bias:	+8 to 12 V/1 A
I/O connectors:	K (F)
Outline:	WT-A-2
Temperature range:	-40 to +70°C

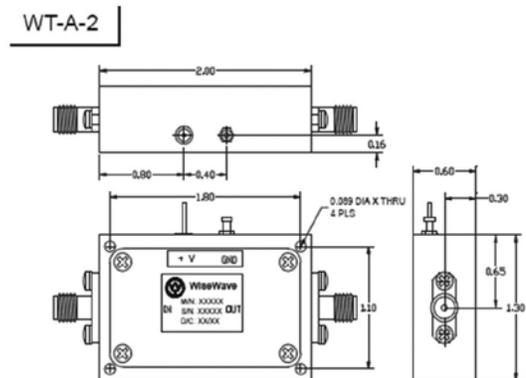
Applications

- Telecommunication
- Test instrumentation
- Radar front

This is a preliminary datasheet. Specs and outline may change in the final offer.

Outline

Dimensions are in inches



Performance Chart

