

Power Amplifiers Deliver 18 to 20 dBm at 50 to 72 GHz

Two new power amplifiers are designed for linear applications at 55 GHz and broadband applications in the 50 to 72 GHz band

WiseWave Technologies has added two new power amplifiers to their line of microwave and mm-wave products. The new models include a

broadband unit providing 18 dBm over 50 to 72 GHz, and a linear amplifier with 20 dBm output in the 54 to 56 GHz band.

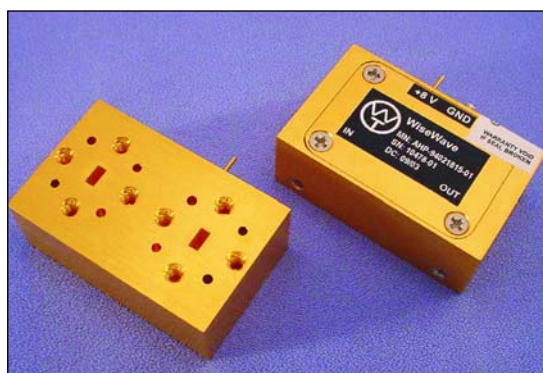
50 to 72 GHz Ultra Broad Band Power Amplifier

Utilizing MMIC PHEMT technology, Model AHP-61221628-01 is a wide band power amplifier for the frequency range of 50 to 72 GHz, offering 18 dBm saturated output power. This power amplifier also features a small signal gain of 28 dB, ± 1 dB gain flatness over the entire 22 GHz bandwidth and 2:1 maximum input and output VSWR. The RF interface is equipped with WR-15 Waveguide. The required DC power supply is +8 V with a maximum current of 200 mA.

55 GHz Linear Power Amplifier

Model AHP-55022040-01 is a Class A power amplifier using MMIC PHEMT technology, offering outstanding performance from 54 GHz to 56 GHz. It features 40 dB minimum small signal gain, 20 dBm minimum P_{1dB} output power and 2:1 maximum input and output VSWR. The amplifier is constructed in a housing of 1.3 x 2.0" x 0.6 in. (33 x 50.8 x 15.3 mm), using RF connectors of WR-15 waveguide with UG385/U flange. The DC power supply for normal operation is +8 V to +12 V with typical current of 750mA.

WiseWave Technologies manufactures microwave and mm-wave amplifiers, anten-



WiseWave's Model AHP-61221628-01 offers broadband operation in the 50 to 72 GHz range.



Model AHP-55022040-01 is a Class A amplifier with 20 dBm output at 55 GHz.

nas, control devices, ferrite products, oscillators, frequency converters, passive components and integrated assemblies to 140 GHz.

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