

Pascall



Low Noise & Small Signal Microwave Amplifiers

The Pascall range of hermetically sealed microwave amplifiers are designed for optimum performance and reliability and as such are ideally suited to military and commercial applications between 0.5 to 18GHz.

These amplifiers are specified as low noise broadband, general purpose broadband and low noise narrowband models.

The broadband low noise units offer selected bandwidths up to the full 0.5 to 18GHz with gain from 8.5 to 44dB, noise figure in the 2 to 6 dB range and P1dB between 12 and 15dBm, depending on frequency range and model.

The broadband general purpose range offer similar gain and P1dB but have slightly higher noise figures than the low noise models.

The narrowband low noise range are optimised for noise figure and flatness with noise figure between 1.5 and 3dB, flatness of +/- 1dB and P1dB in the 8 to 15dBm range depending on frequency and model.

All amplifiers in these three ranges require a single +12 volt dc power supply.

General Information

BROADBAND LOW NOISE MODELS

Frequency range (GHz) 2 to 4, 2 to 6, 4 to 8, 8 to 12, 6 to 18, 2 to 18, 0.7 to 18 & 0.5 to 18

BROADBAND GENERAL PURPOSE MODELS

Frequency range (GHz) 2 to 4, 2 to 6, 4 to 8, 8 to 12, 6 to 18, 8 to 18 & 12 to 18

NARROW BAND LOW NOISE MODELS – Frequency range (GHz)

S&C band 3.7 to 4.3, 4.4 to 5.0, 4.7 to 5.3, 5.4 to 5.9 & 5.9 to 6.4

C & X band 7.9 to 8.4, 8.5 to 9.6, 10.9 to 11.7 & 11 to 13

X & Ku band 11 to 13, 12.7 to 13.3, 13.3 to 14, 14 to 14.5, 14.14 to 15.2 & 15.7 to 17

Connectors SMA all models

Temperature range

operating -45 to + 85 deg C

storage -55 to +125 deg C

VSWR

2:1 maximum all models

Power supply

+12 volts DC all models

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