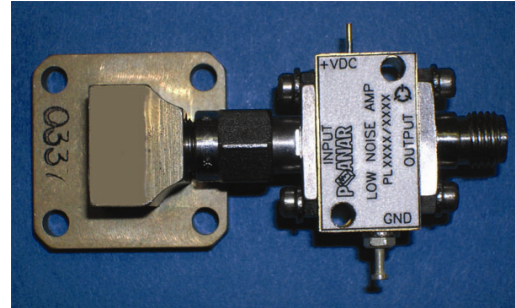




NEW PRODUCT RELEASE

New Low-Noise Amplifiers featuring Waveguide Input

Planar Electronics Technology has released a new line of low-cost, highly reliable, low-noise amplifiers featuring waveguide input. Four standard models are available and they span the frequency range of 5.85 to 26.5GHz.



PET Model No. PE10WR137-34-68R2-12 features a removable WR-137 waveguide input and a SMA female connector on the output. This model offers 34dB of typical gain while maintaining a typical noise figure of 0.7dB (51 °K). The output power at 1dB gain compression is greater than +2dBm.

PET Model No. PE10WR90-25-8R212R4-12 features a removable WR-90 waveguide input and a SMA female connector on the output. This model offers 25dB of typical gain while maintaining a typical noise figure of 1.8dB (149 °K). The output power at 1dB gain compression is greater than +10dBm.

PET Model No. PE10WR112-32-710-12 features a removable WR-112 waveguide input and a SMA female connector on the output. This model offers 32dB of typical gain while maintaining a typical noise figure of 0.7dB (51 °K). The output power at 1dB gain compression is greater than +2dBm.

PET Model No. PE10WR42-22-1826R5-12 features a removable WR-42 waveguide input and a SMA female connector on the output. This model offers 22dB of typical gain while maintaining a typical noise figure of 2.5dB (226 °K). The output power at 1dB gain compression is greater than +10dBm.

All amplifiers operate from +8 to +15VDC and are internally regulated and reverse voltage protected. All models are built to withstand intense environmental conditions. Full MIL-STD-883 and S-level screening is available. Other models and specifications are available. Please contact us for additional details.

Typical Specifications By Model No. Listed Below:

PE10WR137-34-68R2-12

Specifications

Frequency:..... 5.85-8.20GHz
 Gain:..... 34dB
 Gain Flatness:..... ±1.5dB
 Noise Figure:..... 0.7dB
 Noise Temperature:..... 51°K
 OP1dB:..... +2dBm
 VSWR In/Out:..... 2.0:1
 Operating Voltage:..... +8 to +15VDC
 Current Consumption:.... 25mA

PE10WR90-25-8R212R4-12

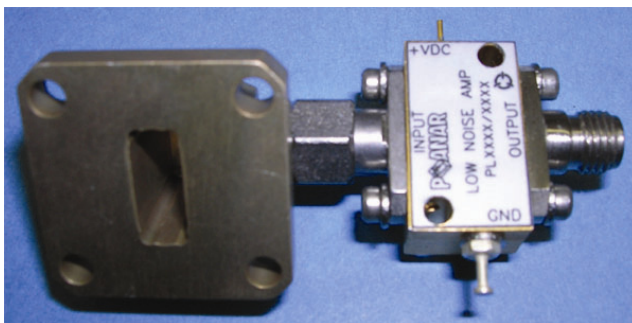
Specifications

Frequency:..... 8.2-12.4GHz
 Gain:..... 25dB
 Gain Flatness:..... ±0.75dB
 Noise Figure:..... 1.8dB
 Noise Temperature:..... 149°K
 OP1dB:..... +10dBm
 VSWR In/Out:..... 2.0:1
 Operating Voltage:..... +8 to +15VDC
 Current Consumption:.... 65mA

PE10WR112-32-710-12

Specifications

Frequency:..... 7.05-10.0GHz
 Gain:..... 32dB
 Gain Flatness:..... ±1.25dB
 Noise Figure:..... 0.7dB
 Noise Temperature:..... 51°K
 OP1dB:..... +2dBm
 VSWR In/Out:..... 2.0:1
 Operating Voltage:..... +8 to +15VDC
 Current Consumption:.... 25mA



PE10WR42-22-1826R5-12

Specifications

Frequency:..... 18.0-26.5GHz
 Gain:..... 22dB
 Gain Flatness:..... ±1.0dB
 Noise Figure:..... 2.5dB
 Noise Temperature:..... 226°K
 OP1dB:..... +10dBm
 VSWR In/Out:..... 2.0:1
 Operating Voltage:..... +8 to +15VDC
 Current Consumption:.... 55mA

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