



481 Cottonwood Drive
Milpitas, California 95035-7492

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Editorial Contact: Northe K. Osbrink
(408) 943-3031

T-74-13-01

0.5-12, 6-18, 2-18 GHz low-noise amplifiers for high receiver sensitivity

Santa Clara, Calif., September 24, 1990—Avantek, Inc. is expanding its range of octave-plus bandwidth low-noise amplifiers over the 0.5 to 18 GHz range to include versions with high-electron-mobility transistors (HEMTs), and versions featuring advanced low-noise distributed amplifier designs. These amplifiers are ideal for a wide range of wide-bandwidth, low-noise applications. They are an excellent choice for laboratory or portable noise measurement equipment and network analyzers, and are rugged and reliable enough for airborne and shipboard surveillance and signal analysis receiving systems.

The AWT-18610 Series amplifiers cover 6-18 GHz with 2.8 dB maximum noise figure (2.5 dB, typ.), gains of 25 to 42 dB min. and output powers of up to +20 dBm (at +25 °C). These amplifiers feature advanced pseudomorphic high-electron-mobility transistor front-ends for "state-of-the-art" noise figure performance.

The AWT-12000 and -18200 Series amplifiers feature refined distributed amplifier circuitry for extended-bandwidth performance. The -12000 Series versions cover 0.5 to 12 GHz with 6.5 dB maximum noise figure (5.5 dB, typ.), minimum gains of 27 and 41 dB, and power output of +10 dBm (at +25 °C). The AWT-18200 Series amplifiers cover 2 to 18 GHz with 6.5 dB maximum noise figure (5.8 dB, typ.), minimum gains of 29 and 44 dB, and power output of +10 dBm (at 25°C).

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Avantek, Inc.
Release 90-140
September, 1990
p. 2 of 2

T-74-13-01

All amplifiers in these series are built with high-reliability gold-on-ceramic thin-film construction and are packaged in hermetic cases. Single-stage versions can be supplied in miniature μ AvPAK packages designed to be incorporated in microstrip circuits. All versions operate from a single +12 to +15 VDC source, and incorporate internal voltage regulators, and reverse- and over-voltage protection. They are capable of withstanding severe temperature, shock and vibration requirements, operate over the full -54°C to $+100^{\circ}\text{C}$ temperature range, and can be screened to applicable portions of MIL-STD-883.

Delivery of these amplifiers in small quantities is stock to 45 days, and special versions can be produced, with pricing comparable to current premium low-noise amplifiers. Data sheets are available from Avantek, Inc. m/s M-82, 481 Cottonwood Drive, Milpitas, CA 95035, (408) 943-3038. For information contact your convenient Avantek regional sales office East: (301) 381-2600; Central: (708) 358-8963; West: (805) 373-3870; Europe (UK) (44) 276-685753.

Reader service card number _____.

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