



AVTECH ELECTROSYSTEMS LTD.

NANOSECOND WAVEFORM ELECTRONICS
SINCE 1975

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Model AV-131

The Model AV-131 amplifier is designed to amplify nanosecond rise time baseband pulses in the pulse width range of about 1 ns to 500 ns and CW signals in the frequency range of 1.0 MHz to 500 MHz. The basic specifications for the unit are as follows:

Gain:	≥ 40 db for $f \leq 225$ MHz ≥ 37 db for $f = 300$ MHz ≥ 30 db for $f = 500$ MHz
Peak output voltage:	± 2 Volts
Impedance level:	50 ohms nominal
Input VSWR:	$\leq 2.5:1$
Output VSWR:	$\leq 2.5:1$
Input thermal noise level:	≈ 10 μ V
Max. noise figure:	7 dB
Dynamic range:	≥ 60 dB
Rise time:	≤ 1 ns
Min. input pulse width:	≥ 1 ns
Max. input pulse width:	≤ 500 ns
Prime power:	+5 ± 1.0 Volts, 250 mA max
Connectors:	SMA
Size:	1.4 x 1.1 x 2.3 inches

CAUTION: The input to this amplifier does not include any overload protection and so it may be damaged if subjected to high amplitude spurious outputs such as those provided by some PMT. The warranty does not apply to such failures.