



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 \pm 1.0 Volts, 250 mA max
Connectors:	SMA
Size:	1.4 x 1.1 x 2.3 inches