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High-Frequency Amplifier

The 13 AMP 007 is a low-noise ac-coupled high-frequency voltage or current amplifier.

- High-frequency response ranges from 4 kHz to >300 MHz.
- The amplifier accepts input currents up to 160 mA and input voltages up to 8 mV.

SPECIFICATIONS:
HIGH-FREQUENCY AMPLIFIER

Frequency Response: 4 kHz to >350 MHz (−3dB)
Maximum Output Voltage: 1 V p-p into 50 Ω
Input and Output Connector type: BNC
Input and Output Impedance: 50 Ω
Transimpedance Mode:
Transimpedance Gain: 6250 V/A
Maximum Input Current: 160 μA
Output Noise: 3.2 mV rms
Input-Referred Noise: 24 pA/Hz$^{1/2}$
Bias Adjustment: −20 V to +20 V
Voltage Amplification Mode:
Voltage Gain: 125
Maximum Input Voltage: 8 mV
Output Noise: 3.2 mV rms
Input Referred Noise: 1.2 nV/Hz$^{1/2}$
Power Requirements:
Voltage:
115 Vac +10/−20% and 230 Vac ±10%
rear panel switch selectable
Frequency: 50–60 Hz
Power: 3 W
Temperature:
Operating Temperature: +10°C to +35°C
Storage Temperature: −40°C to +55°C
Dimensions (W × H × D):
91 × 48.3 × 143 mm (3.6 × 1.9 × 5.6 in.)

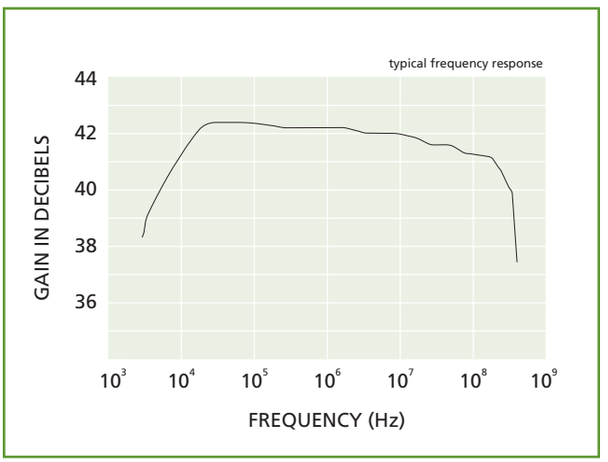
High-Frequency Amplifier

	PRODUCT NUMBER
High-Frequency Amplifier	13 AMP 007

Performance Variation with Detector Type[1]

Rise Time[2] at −9 Vdc (nsec)	NEP[2] at −9 Vdc (nsec)	DETECTOR PRODUCT NUMBER
1.0	48×10^{-12}	13 DAH 001
1.25	48×10^{-12}	13 DAH 003
1.5	48×10^{-12}	13 DAH 005

1 Combined performance for Melles Griot high-speed silicon photodiodes and the 13 AMP 007.
2 Rise-time and noise equivalent power values are for a transimpedance gain of 6250 V/A and a detector responsivity of 0.5 A/W.



Typical frequency response of the 13 AMP 007 high-frequency amplifier

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