

# FET Input Preamplifier

## SE4002 Preamplifiers

10 M $\Omega$  input impedance



### Features

- 6nV/ $\sqrt{\text{Hz}}$  input noise
- Gain of 10/20/50/100, manual adjustment
- FET input, 10 M $\Omega$  input impedance
- Gain accuracy 2%
- High common mode rejection
- 1 Hz - 300 kHz Gain bandwidth
- Ultra small size and portable

## Technical Specifications

### ➤ Input

Input Impedance	10M $\Omega$ //8pF
Inputs	Single-ended or differential
Maximum Input	70mVrms (overload)

### ➤ Noise (typ.)

9.7 Hz	22.1nV/ $\sqrt{\text{Hz}}$
997Hz	6.2nV/ $\sqrt{\text{Hz}}$
9.7kHz	5.7nV/ $\sqrt{\text{Hz}}$
99.7kHz	5.6nV/ $\sqrt{\text{Hz}}$
Coupling	SAC (0.16Hz)
CMRT	>100dB
Input Bandwidth	1Hz - 300kHz

Gain 10, 20, 50, 100

Gain Accuracy 2% max.

### ➤ Outputs

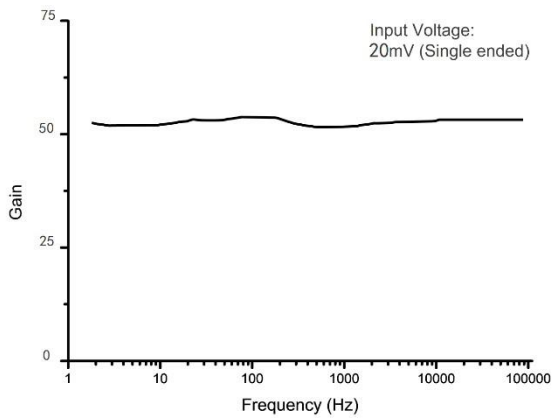
A	Single, single-ended
B	Shielded ground
Maximum Output	7Vrms
Power	12V DC 100-240V AC

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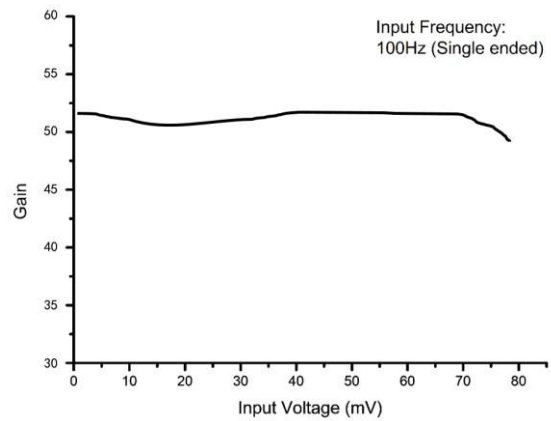
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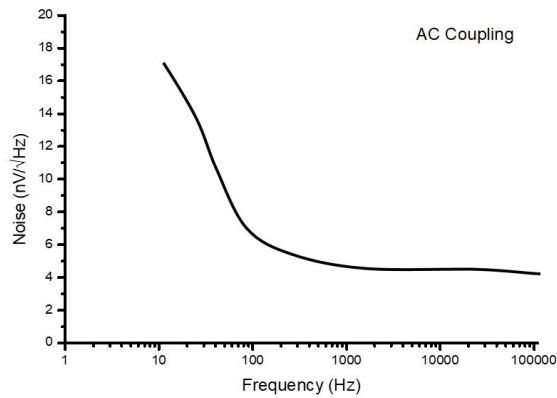
### Frequency response curve



### Amplitude response curve



### Noise-Frequency



### CMRR-Frequency

