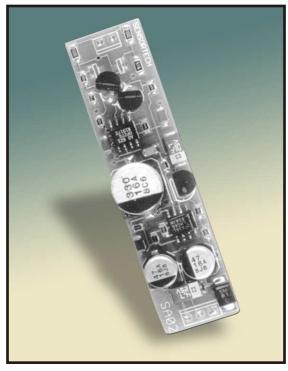


# SA02 - Pre-amplifier single-ended I/O

### **TECHNICAL INFORMATION**





#### SA02 Frequency Response 50 45 40 Gain (dB) 25 20 25 20 45 15 10 5 1F0 1E1 1F2 1E3 1F4 1F5 1E6 Frequency (Hz)

#### **OVERVIEW**

SensorTech's preamplifiers have been designed for applications where size and weight are critical but performance cannot be compromised. The SA02 is ideal for use with piezoelectric sensors such as hydrophones and vibration detectors but can also be used in other applications. Surface-mount technology provides small size, yet reliable, low-noise configuration. The SA02 offers high input impedance and low power consumption. The SA02 has a single-ended input and output. The SA02 preamplifier comes standard with a 40dB gain. The gain can be tailored to fit customer specifications.

#### **FEATURES**

- Low noise figure
- Low power consumption
- High input impedance

#### **APPLICATIONS**

- Modal analysis
- Control systems
- Signal conditioning
- Hydrophones

#### **SPECIFICATIONS**

Gain: 40 dB or Customer Specified

Noise ref. input: <10 nV√Hz

Input/output: Single-ended / single-ended

Input impedance:  $50 \text{ M}\Omega$ 

Bandwidth: 4 Hz - 250 kHz

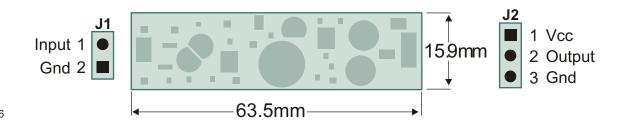
**Size:** 63.5mm x 15.9mm

(2.5" x 0.625")

Weight: 6 gms

Supply voltage: 12V

Current (mA@12v): quiescent <10mA













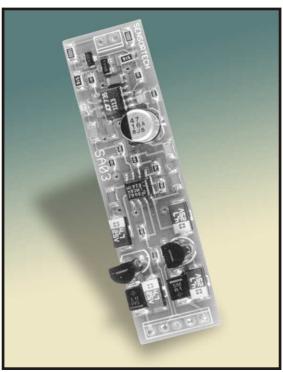


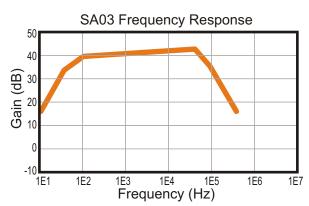
#### SA03 - Pre-amplifier differential I/O

## **AMPLIFIER & POWER SUPPLIES**

**OVERVIEW** 







## SensorTech's preamplifiers have been designed for applications where size and weight are critical but performance cannot be compromised. The SA03 is ideal for use with piezoelectric sensors such as hydrophones and vibration detectors but can also be used in other applications. Surface-mount technology provides small size, yet reliable, low-noise configuration. The SA03 offers high input impedance and low power consumption. The SA03 has a differential input and output. The SA03 preamplifier comes standard with a 40dB gain. The gain can be tailored to fit customer specifications. **FEATURES** Low noise figure Low power consumption High input impedance

#### **APPLICATIONS**

- Modal analysis
- Control systems
- Signal conditioning
- Hydrophones

# SPECIFICATIONS

40 dB or Customer Specified Gain:

 $<20 \text{ nV}/\sqrt{\text{Hz}}$ Noise ref. Input:

Differential / differential Input/output:

Input impedance:  $50 M\Omega$ 

> Bandwidth: 4 Hz - 80 kHz

57mm x 15mm Size:

(2.25" x 0.6")

Weight: 7 gms Supply voltage: ± 12V

quiescent < 0.10mA Current (mA@12v):

