

# LOW-MASS LABORATORY ACCELEROMETERS FOR HIGH VIBRATION LEVELS

## 10 mV/g OUTPUT

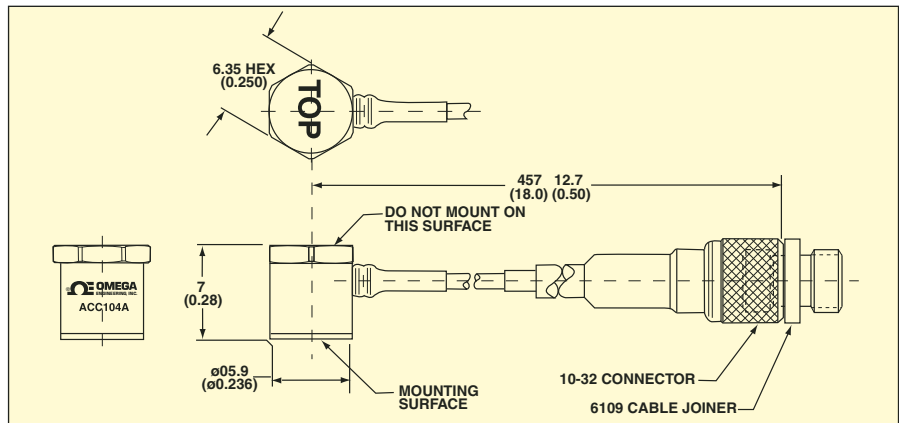
### ACC104A

Starts at  
**\$435**



- ✓ Ideal for Accurate Structural Testing
- ✓ Weighs Only 1.5 g
- ✓ Only ¼" Dia. x ¼" High
- ✓ High Shock/Acceleration Range Up to ±1000 g
- ✓ High Resolution Resulting from Low-Noise Floor

OMEGA's ACC104A laboratory accelerometer is ideal when accurate structural testing is required. Weighing only 1.5 g, it is recommended for applications in which low weight is critical. The ACC104A has a 10 mV/g output and can measure vibrations up to 10,000 Hz. It has a stainless steel case with a flat surface for adhesive mounting, and an integral side-exit coaxial cable.



**Bias Voltage:** 7 V nominal

**Base Strain:** 0.003 g/microstrain nominal

**Noise Floor (Wideband):** 0.0012 g (rms)

**Weight:** 1.5 g (0.05 oz) nominal (without cable)

**Material:** Stainless steel, thermal insulating boot included

**Dimensions:** 7.11 H x 6.35 mm hex base (0.28 x 0.25")

**Connector:** 10-32 side coaxial male termination, cable not included (order model no. ACC-CB2-10)

**Mounting:** 10-32 removable stud

**Mounting Torque Max:** 22 cm-kg (20 in-lb)

**MOST POPULAR MODELS HIGHLIGHTED!**

### SPECIFICATIONS

**Excitation:** 2 mA nominal @ 15 to 30 Vdc, constant current

**Rated Output:** 10 mV/g nominal @ 100 Hz

**Frequency Response:** 1 Hz to 10 kHz (up to ±10% rated output shift)

**Amplitude Range:** ±500 g peak

**Amplitude Linearity:** ±2% up to 400 g peak

**Temperature Range:** -55 to 120°C (-65 to 250°F)

**Temperature Sensitivity Effect:** -54 to 38°C (-65 to 100°F) ≤5% FS  
38 to 121°C (100 to 250°F) ≤8% FS

**Discharge Time Constant:** 0.5 s min

**Transverse Sensitivity:** 5% of axial max  
**Strain Sensitivity:** 0.001 g/microstrain @ 25°/μσ

**Maximum g Without Damage:** 10,000 g peak

**Maximum g Without Clipping:** ±500 g peak

**Mounted Resonance Frequency:** >60 kHz

**Output Impedance:** 1000 Ω nominal

### To Order (Specify Model Number)

MODEL NO.	PRICE	DESCRIPTION
ACC104A	\$435	Low-mass accelerometer
ACC-CB2-10	55	3 m (10') coaxial cable (10-32/BNCM) <b>required</b>

### ACCESSORIES

MODEL NO.	PRICE	DESCRIPTION
SG496	\$28	Cold-curing rapid adhesive

### POWER SUPPLIES

ACC-PS1	\$205	Battery power supply (BNCF connections)
ACC-PS2	530	Battery power supply/amplifier (BNCF connections)
ACC-PS3	475	AC power supply (BNCF connections)

### INTERFACE CABLES USED BETWEEN POWER SUPPLY AND INSTRUMENTATION

ACC-CB4-15	\$65	4.6 m (15') coaxial cable (BNCM/BNCM)
ACC-CB5-2	25	0.6 m (2') coaxial cable (BNCM/banana plug)
ACC-CB6	15	178 mm (7") coaxial cable (BNCM/pigtail)
PE-1006	224	Reference Book: Frequency Measurement and Control

**Note:** See pages K-20 through K-22 for details on the above power supplies and cables.

**Ordering Example:** ACC104A, accelerometer, ACC-CB2-10, coaxial cable, ACC-PS1, power supply, ACC-CB5-2, coaxial cable, \$435 + 55 + 205 + 25 = \$720.



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