UNHOLTZ-DICKIE CORP.

Vibration Test Equipment

The **10B10-X** and **10B10T-X** Accelerometers are general purpose piezoelectric vibration transducers designed with wide operating temperature range for use in the charge mode. The nominal sensitivity at 160 Hz is within the range of 9.0 to 10.8 pc/g. The sensitivity is extremely stable over a wide frequency range with a maximum 2% deviation from 10 to 2,000 Hz. (see typical curve below)

KEY FEATURES

- Normalized charge sensitivity (typ 10.2 pC/g)
- Temp range -300°F to+500°F(-184°C to +260°C)
- Low base and case strain sensitivity
- Flat charge sensitivity vs frequency
- Flat charge sensitivity vs temperature
- Mounted resonant frequency 30 kHz

DYNAMIC PERFORMANCE

Nominal Charge Sensitivity: Open Circuit Voltage Sensitivty: Accelerometer Capacitance: Mounted Resonant Frequency: Transverse Sensitivity: Accelerometer Resistance:

Frequency Response: Flatness: Amplitude Linearity: 10.2 pC/g typ at 160 Hz. 5.2 mV/g typical 1600 pF typical at 160 Hz 30,000 Hz typical 3% max at 160 Hz 1% typical 20,000 megohms min at 75°F 500 megohms min at 500°F See curve below, (reference to 160 Hz.) \pm 2%, 10-2,000 Hz Within 2% of best line (2000 g range)



Piezoelectric Accelerometer

Model 10B10-X Model 10B10T-X

10B10-X

10B10T-X

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reference. Using a UD Calibration System, a continuous calibration curve is plotted from 10 to 10,000 Hz, showing percent deviation of charge sensitivity compared to the sensitivity measured at 160 Hz.