TEDS piezovelocity transducer
ED-797V

SPECIFICATIONS

Sensitivity, ±10%, 25°C 100 mV/in/sec
Velocity range 50 in/sec peak
Amplitude nonlinearity 1%
Frequency response: ±10% 2.0 - 3,500 Hz
                  ±3 dB 1.6 - 7,000 Hz
Resonance frequency 18 kHz
Transverse sensitivity, max 5% of axial
Temperature response: –50°C –15%
              +120°C +10%
Power requirement:
  Voltage source 18 - 30 VDC
  Current regulating diode 2 - 10 mA
Electrical noise, equiv. in/sec:
  Broadband 2.5 Hz to 25 kHz 100 µin/sec
  10 Hz 10 µin/sec/√Hz
  100 Hz 0.8 µin/sec/√Hz
  1,000 Hz 0.1 µin/sec/√Hz
Output impedance, 4-20 mA supply the greater of: 100 Ω or 5,000/f
Bias output voltage 10 VDC
Grounding case isolated, internally shielded
Temperature range –50°C to +120°C
Vibration limit 250 g peak
Shock limit 2,500 g peak
Electromagnetic sensitivity, equiv. in/sec 50 µin/sec/gauss
Sealing hermetic
Base strain sensitivity 0.004 in/sec/μstrain
Sensing element design PZT ceramic / shear
Weight 153 grams
Case material 316L stainless steel
Mounting 1/4-28 captive socket head screw
Output connector 2 pin, MIL-C-5015 style
Mating connector R6 type
Recommended cabling J9T2A

Notes:
1. Temperature range is limited to –40°C to +85°C when using the IEEE 1451 - TEDS function.

Key features
• Contains transducer electronic data sheet (IEEE 1451 - TEDS)
• Simplifies troubleshooting, reducing safety risks and cost
• Self-identifying
• Designed to integrate with wireless transmitters & receivers
• Manufactured in ISO 9001 facility

Accessories supplied:
#12105-01 captive socket head; TEDS calibration data