



## Miniature IEPE accelerometer

### Dynamic

|                                                    |              |
|----------------------------------------------------|--------------|
| Sensitivity, $\pm 15\%$ , $25^\circ\text{C}$ ..... | 100 mV/g     |
| Acceleration range .....                           | 50 g peak    |
| Amplitude nonlinearity.....                        | 1%           |
| Frequency response:                                |              |
| $\pm 10\%$ .....                                   | 6 - 8000 Hz  |
| $\pm 3\text{ dB}$ .....                            | 3 - 10000 Hz |
| Resonant frequency.....                            | 48 kHz       |
| Transverse sensitivity, max.....                   | 5% of axial  |
| Temperature response:                              |              |
| $-55^\circ\text{C}$ .....                          | $-10\%$      |
| $+125^\circ\text{C}$ .....                         | $+10\%$      |

### Electrical

|                                           |               |
|-------------------------------------------|---------------|
| Power requirement: voltage source .....   | 18 - 30 VDC   |
| current regulating diode .....            | 2 - 10 mA     |
| Electrical noise, Broadband Spectral (g): |               |
| 2 Hz to 20 kHz.....                       | 1.6 mg        |
| Output impedance, max.....                | 100 $\Omega$  |
| Bias output voltage.....                  | 8 - 12 VDC    |
| Grounding.....                            | Case grounded |

### Environmental

|                                                 |                              |
|-------------------------------------------------|------------------------------|
| Temperature range.....                          | $-55$ to $125^\circ\text{C}$ |
| Vibration limit.....                            | 500 g peak                   |
| Shock limit.....                                | 5000 g peak                  |
| Electromagnetic sensitivity, equiv g, max ..... | 90 $\mu\text{g/gauss}$       |
| Sealing .....                                   | Hermetic                     |
| Base strain sensitivity, max.....               | 0.0002 g/ $\mu\text{strain}$ |

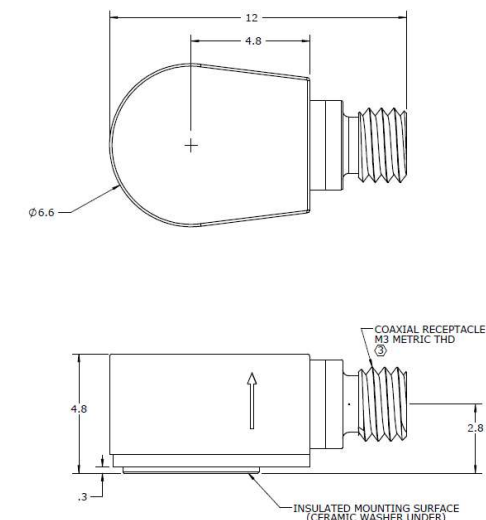
### Physical

|                             |               |
|-----------------------------|---------------|
| Sensing element design..... | Ceramic/shear |
| Weight.....                 | 0.9 grams     |
| Case material.....          | Titanium      |
| Output connector.....       | M3            |

### Accessories

Mating cable with BNC output  
Calibration certificate

Note: Frequency response limits spectral and noise values are typical



## Ordering Information

|         |             |
|---------|-------------|
| 710A-50 |             |
| └─┬─┘   | Range in g  |
| └─┬─┘   | Output type |
| └─┬─┘   | Model       |