

# High sensitivity, filtered accelerometer

## 799M



### SPECIFICATIONS

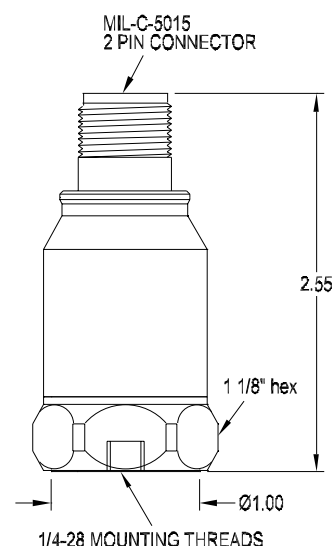
|                                       |            |                                    |
|---------------------------------------|------------|------------------------------------|
| Sensitivity, $\pm 5\%$ , 25°C         |            | 1 V/g                              |
| Acceleration range                    |            | 5 g peak                           |
| Amplitude nonlinearity                |            | 1%                                 |
| Frequency response:                   | $\pm 5\%$  | 0.6 - 1,200 Hz                     |
|                                       | $\pm 10\%$ | 0.4 - 1,600 Hz                     |
|                                       | $\pm 3$ dB | 0.2 - 2,500 Hz                     |
| Resonance frequency                   |            | 18 kHz                             |
| Transverse sensitivity, max           |            | 5% of axial                        |
| Temperature response:                 | -50°C      | -7%                                |
|                                       | +80°C      | +5%                                |
| Power requirement:                    |            |                                    |
| Voltage source                        |            | 15 - 30 VDC                        |
| Current regulating diode              |            | 2 - 10 mA                          |
| Electrical noise, equiv. g:           |            |                                    |
| Spectral                              | 0.1 Hz     | 15 $\mu$ g                         |
|                                       | 1 Hz       | 3 $\mu$ g/ $\sqrt{\text{Hz}}$      |
|                                       | 10 Hz      | 1 $\mu$ g/ $\sqrt{\text{Hz}}$      |
|                                       | 100 Hz     | 1 $\mu$ g/ $\sqrt{\text{Hz}}$      |
| Output impedance, max                 |            | 400 $\Omega$                       |
| Bias output voltage                   |            | 8.0 VDC                            |
| Grounding                             |            | case isolated, internally shielded |
| Temperature range                     |            | -50° to +80°C                      |
| Vibration limit                       |            | 250 g peak                         |
| Shock limit                           |            | 5,000 g peak                       |
| Electromagnetic sensitivity, equiv. g |            | 150 $\mu$ g/gauss                  |
| Sealing                               |            | hermetic                           |
| Base strain sensitivity, max          |            | 0.0005 g/ $\mu$ strain             |
| Sensing element design                |            | PZT, shear                         |
| Weight                                |            | 205 grams                          |
| Case material                         |            | 316L stainless steel               |
| Mounting                              |            | 1/4-28 tapped hole                 |
| Output connector                      |            | 2 pin, MIL-5015 style              |
| Mating connector                      |            | R6 type                            |
| Recommended cabling                   |            | J9T2A                              |

Accessories supplied: SF6 mounting stud (metric mounting available; calibration data (level 3))



### Key features

- High sensitivity, ultra low noise
- Manufactured in ISO 9001 facility



| Connections  |               |
|--------------|---------------|
| Function     | Connector pin |
| power/signal | A             |
| common       | B             |
| ground       | shell         |



Note: Due to continuous process improvement, specifications are subject to change without notice.  
This document is cleared for public release.