



HIGH TEMPERATURE ICP[®] ACCELEROMETERS

SIDE EXIT ICP[®] ACCELEROMETER

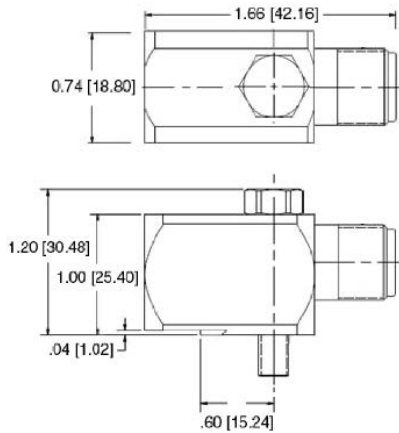
HT602 Series



ACCELEROMETER WITH MIL CONNECTOR

MODEL 602D01

- Low profile housing
- Side exit, through-bolt design



SPECIFICATIONS

Performance	
Sensitivity ($\pm 10\%$)	100 mV/g 10.2 mV/(m/s ²)
Measurement Range	± 50 g ± 490 m/s ²
Frequency Range (± 3 dB)	0.8 to 8000 Hz
Resonant Frequency	25 kHz
Broadband Resolution (1 to 10000 Hz)	150 μ g 1472 μ m/s ²
Non-Linearity	± 1 %
Transverse Sensitivity	≤ 5 %
Environmental	
Overload Limit (Shock)	5000 g pk 49050 m/s ² pk
Temperature Range	-65 to +325 °F -54 to +162 °C
Enclosure Rating	IP68
Electrical	
Settling Time (within 1% of bias)	≤ 2.0 sec
Discharge Time Constant	≥ 0.3 sec
Excitation Voltage	18 to 28 VDC
Constant Current Excitation	2 to 20 mA
Output Impedance	< 150 Ohm
Output Bias Voltage	8 to 12 VDC
Spectral Noise (10 Hz)	9 μ g/ $\sqrt{\text{Hz}}$
Spectral Noise (100 Hz)	4 μ g/ $\sqrt{\text{Hz}}$
Spectral Noise (1 kHz)	2 μ g/ $\sqrt{\text{Hz}}$
Electrical Isolation (Case)	$> 10^8$ Ohm
Physical	
Sensing Element	Ceramic
Sensing Geometry	Shear
Housing Material	Stainless Steel
Sealing	Welded Hermetic
Mounting Thread	1/4-28 Male
Mounting Torque	2 to 5 ft-lb 2.7 to 6.8 Nm
Electrical Connector	2-Pin MIL-C-5015
Electrical Connection Position	Side
Weight	5.4 oz 153 g
Accessories	
Model 081A73: Mounting bolt, 1/4-28 x 1.34"	

TOP EXIT ICP[®] ACCELEROMETER

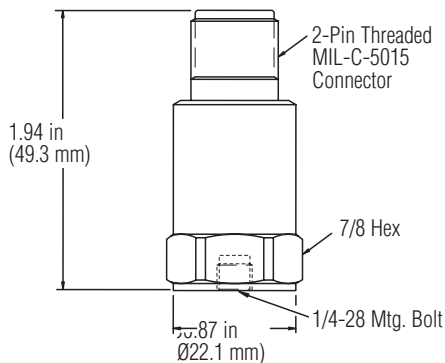
HT622 Series



ACCELEROMETER WITH MIL CONNECTOR

MODEL HT622B01

- Most popular top exit precision accelerometer
- Low noise



SPECIFICATIONS	
Performance	
Sensitivity ($\pm 10\%$)	100 mV/g 10.2 mV/(m/s ²)
Measurement Range	± 50 g ± 490 m/s ²
Frequency Range ($\pm 5\%$)	0.58 to 6000 Hz
Frequency Range ($\pm 10\%$)	0.42 to 10000 Hz
Frequency Range (± 3 dB)	0.2 to 15000 Hz
Resonant Frequency	30 kHz
Broadband Resolution (1 to 10000 Hz)	150 μ g 1472 μ m/s ²
Non-Linearity	$\pm 1\%$
Transverse Sensitivity	$\leq 5\%$
Environmental	
Overload Limit (Shock)	5000 g pk 49050 m/s ² pk
Temperature Range	-65 to +325 °F -54 to +163 °C
Enclosure Rating	IP68
Electrical	
Settling Time (within 1% of bias)	≤ 5.0 sec
Discharge Time Constant	≥ 0.8 sec
Excitation Voltage	18 to 28 VDC
Constant Current Excitation	2 to 10 mA
Output Impedance	<700 Ohm
Output Bias Voltage	8 to 15 VDC
Spectral Noise (10 Hz)	12 μ g/ \sqrt Hz
Spectral Noise (100 Hz)	3.2 μ g/ \sqrt Hz
Spectral Noise (1 kHz)	1.2 μ g/ \sqrt Hz
Electrical Isolation (Case)	>10 ⁸ Ohm
Physical	
Sensing Element	Ceramic
Sensing Geometry	Shear
Housing Material	Stainless Steel
Sealing	Welded Hermetic
Mounting Thread	1/4-28 Female
Mounting Torque	2 to 5 ft-lb 2.7 to 6.8 Nm
Electrical Connector	2-Pin MIL-C-5015
Electrical Connection Position	Top
Weight	3.3 oz 94 g
Accessories	
Model 081A40: Mounting stud, 1/4-28 x 0.438"	

HIGH FREQUENCY ICP[®] ACCELEROMETER

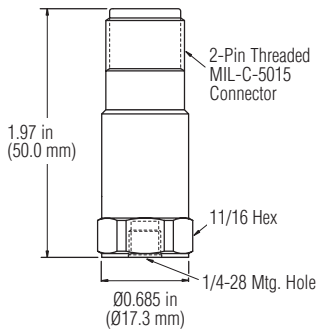
HT623 Series



ACCELEROMETER WITH MIL CONNECTOR

MODEL HT623C01

- High frequency response ideal for gearbox and bearing fault detection
- Small footprint for installation in tight spaces



SPECIFICATIONS	
Performance	
Sensitivity ($\pm 10\%$)	100 mV/g 10.2 mV/(m/s ²)
Measurement Range	± 50 g ± 490 m/s ²
Frequency Range ($\pm 5\%$)	2.4 to 7000 Hz
Frequency Range ($\pm 10\%$)	1.7 to 8000 Hz
Frequency Range (± 3 dB)	0.8 to 12000 Hz
Resonant Frequency	35 kHz
Broadband Resolution (1 to 10000 Hz)	300 μ g 2943 μ m/s ²
Non-Linearity	$\pm 1\%$
Transverse Sensitivity	$\leq 5\%$
Environmental	
Overload Limit (Shock)	5000 g pk 49050 m/s ² pk
Temperature Range	-65 to +250 °F -54 to +121 °C
Enclosure Rating	IP68
Electrical	
Settling Time (within 1% of bias)	≤ 2.0 sec
Discharge Time Constant	≥ 0.2 sec
Excitation Voltage	18 to 28 VDC
Constant Current Excitation	2 to 10 mA
Output Impedance	<100 Ohm
Output Bias Voltage	8 to 15 VDC
Spectral Noise (10 Hz)	20 μ g/ \sqrt Hz
Spectral Noise (100 Hz)	7 μ g/ \sqrt Hz
Spectral Noise (1 kHz)	3 μ g/ \sqrt Hz
Electrical Isolation (Case)	>10 ⁸ Ohm
Physical	
Sensing Element	Ceramic
Sensing Geometry	Shear
Housing Material	Stainless Steel
Sealing	Welded Hermetic
Mounting Thread	1/4-28 Female
Mounting Torque	2 to 5 ft-lb 2.7 to 6.8 Nm
Electrical Connector	2-Pin MIL-C-5015
Electrical Connection Position	Top
Weight	1.8 oz 51 g
Accessories	
Model 081A40: Mounting stud, 1/4-28 x 0.438"	

QUARTZ ELEMENT ICP[®] ACCELEROMETER

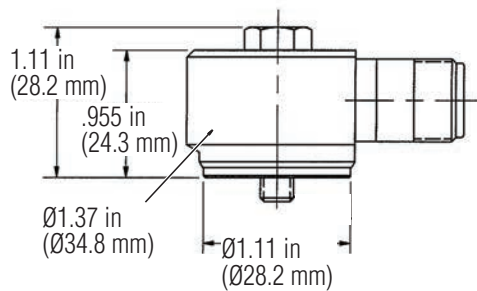
HT624 Series



ACCELEROMETER WITH MIL CONNECTOR

MODEL HT624B01

- Naturally piezoelectric quartz element for excellent long-term stability and repeatability as well as linear sensitivity in thermally-active environments.
- Ring-style design with through-bolt allows for easy cable positioning.



SPECIFICATIONS	
Performance	
Sensitivity ($\pm 10\%$)	100 mV/g 10.2 mV/(m/s ²)
Measurement Range	± 50 g ± 490 m/s ²
Frequency Range ($\pm 5\%$)	2.4 to 2000 Hz
Frequency Range ($\pm 10\%$)	1.7 to 3000 Hz
Frequency Range (± 3 dB)	0.8 to 5000 Hz
Resonant Frequency	18 kHz
Broadband Resolution (1 to 10000 Hz)	1000 μ g 9810 μ m/s ²
Non-Linearity	$\pm 1\%$
Transverse Sensitivity	$\leq 5\%$
Environmental	
Overload Limit (Shock)	5000 g pk 49050 m/s ² pk
Temperature Range	-65 to +325 °F -54 to +163 °C
Enclosure Rating	IP68
Electrical	
Settling Time (within 1% of bias)	≤ 3 sec
Discharge Time Constant	≥ 0.2 sec
Excitation Voltage	18 to 28 VDC
Constant Current Excitation	2 to 10 mA
Output Impedance	< 500 Ohm
Output Bias Voltage	8 to 12 VDC
Spectral Noise (10 Hz)	50 μ g/ $\sqrt{\text{Hz}}$
Spectral Noise (100 Hz)	20 μ g/ $\sqrt{\text{Hz}}$
Spectral Noise (1 kHz)	6 μ g/ $\sqrt{\text{Hz}}$
Electrical Isolation (Case)	$> 10^8$ Ohm
Physical	
Sensing Element	Quartz
Sensing Geometry	Shear
Housing Material	Stainless Steel
Sealing	Welded Hermetic
Mounting Thread	1/4-28 Male
Mounting Torque	2 to 5 ft-lb 2.7 to 6.8 Nm
Electrical Connector	2-Pin MIL-C-5015
Electrical Connection Position	Side
Weight	4.2 oz 120 g
Accessories	
Model 081A67: Mounting bolt, 1/4-28 x 1.12"	

SIDE EXIT ICP[®] ACCELEROMETER

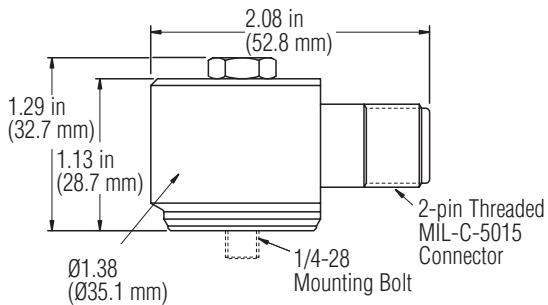
HT625 Series



ACCELEROMETER WITH MIL CONNECTOR

MODEL HT625B01

- Most popular side-exit precision accelerometer.
- Ring-style design with through-bolt allows for easy cable positioning.



SPECIFICATIONS

Performance	
Sensitivity ($\pm 10\%$)	100 mV/g 10.2 mV/(m/s ²)
Measurement Range	± 50 g ± 490 m/s ²
Frequency Range ($\pm 5\%$)	0.5 to 4000 Hz
Frequency Range ($\pm 10\%$)	0.37 to 6000 Hz
Frequency Range (± 3 dB)	0.2 to 10000 Hz
Resonant Frequency	23 kHz
Broadband Resolution (1 to 10000 Hz)	200 μ g 1962 μ m/s ²
Non-Linearity	$\pm 1\%$
Transverse Sensitivity	$\leq 5\%$
Environmental	
Overload Limit (Shock)	5000 g pk 49050 m/s ² pk
Temperature Range	-65 to +325 °F -54 to +163 °C
Enclosure Rating	IP68
Electrical	
Settling Time (within 1% of bias)	≤ 8.0 sec
Discharge Time Constant	≥ 1.0 sec
Excitation Voltage	18 to 28 VDC
Constant Current Excitation	2 to 10 mA
Output Impedance	<250 Ohm
Output Bias Voltage	8 to 15 VDC
Spectral Noise (10 Hz)	10 μ g/ \sqrt Hz
Spectral Noise (100 Hz)	6 μ g/ \sqrt Hz
Spectral Noise (1 kHz)	1.5 μ g/ \sqrt Hz
Electrical Isolation (Case)	>10 ⁸ Ohm
Physical	
Sensing Element	Ceramic
Sensing Geometry	Shear
Housing Material	Stainless Steel
Sealing	Welded Hermetic
Mounting Thread	1/4-28 Male
Mounting Torque	2 to 5 ft-lb 2.7 to 6.8 Nm
Electrical Connector	2-Pin MIL-C-5015
Electrical Connection Position	Side
Weight	5.1 oz 145 g
Accessories	
Model 081A73: Mounting bolt 1/4-28 x 1.34"	
Model 080B45: Thermal boot	

QUARTZ ELEMENT ICP[®] ACCELEROMETER

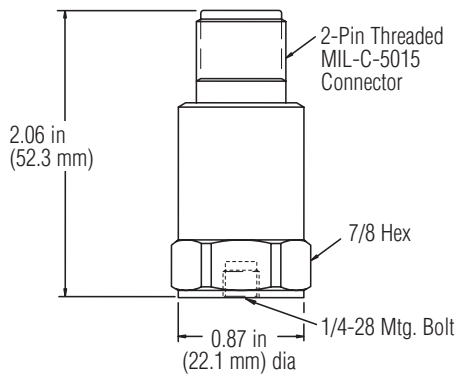
HT628 Series



ACCELEROMETER WITH MIL CONNECTOR

MODEL HT628F01

- Naturally piezoelectric quartz element for excellent long-term stability and repeatability as well as linear sensitivity in thermally-active environments.
- Ideal for conveyors, outdoor installation, paper mills and power plants.



SPECIFICATIONS	
Performance	
Sensitivity ($\pm 10\%$)	100 mV/g 10.2 mV/(m/s ²)
Measurement Range	± 50 g ± 490 m/s ²
Frequency Range ($\pm 5\%$)	2.4 to 3000 Hz
Frequency Range ($\pm 10\%$)	1.7 to 5000 Hz
Frequency Range (± 3 dB)	0.8 to 8000 Hz
Resonant Frequency	18 kHz
Broadband Resolution (1 to 10000 Hz)	1000 μ g 9810 μ m/s ²
Non-Linearity	$\pm 1\%$
Transverse Sensitivity	$\leq 5\%$
Environmental	
Overload Limit (Shock)	5000 g pk 49050 m/s ² pk
Temperature Range	-65 to +325 °F -54 to +163 °C
Enclosure Rating	IP68
Electrical	
Settling Time (within 1% of bias)	≤ 3 sec
Discharge Time Constant	≥ 0.2 sec
Excitation Voltage	18 to 28 VDC
Constant Current Excitation	2 to 10 mA
Output Impedance	< 500 Ohm
Output Bias Voltage	8 to 12 VDC
Spectral Noise (10 Hz)	50.0 μ g/ $\sqrt{\text{Hz}}$
Spectral Noise (100 Hz)	20.0 μ g/ $\sqrt{\text{Hz}}$
Spectral Noise (1 kHz)	6.0 μ g/ $\sqrt{\text{Hz}}$
Electrical Isolation (Case)	$> 10^8$ Ohm
Physical	
Sensing Element	Quartz
Sensing Geometry	Shear
Housing Material	Stainless Steel
Sealing	Welded Hermetic
Mounting Thread	1/4-28 Female
Mounting Torque	2 to 5 ft-lb 2.7 to 6.8 Nm
Electrical Connector	2-Pin MIL-C-5015
Electrical Connection Position	Top
Weight	3.3 oz 94 g
Accessories	
Model 081A40: Mounting stud, 1/4-28 x 0.438"	



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