

Model Number 356M98	LOW OUTGASSING TRIAXIAL ICP® ACCELEROMETER			Revision: F ECN #: 56926
Performance		ENGLISH	SI	OPTIONAL VERSIONS
Sensitivity(± 10 %)		1,000 mV/g	102 mV/(m/s ²)	Optional versions have identical specifications and accessories as listed for the standard model except where noted below. More than one option may be used.
Measurement Range		± 5 g pk	± 49 m/s ² pk	
Frequency Range(± 5 %)		0.5 to 3,000 Hz	0.5 to 3,000 Hz	T - TEDS Capable of Digital Memory and Communication Compliant with IEEE P1451.4 Output Bias Voltage8.5 to 13 VDC8.5 to 13 VDC
Frequency Range(± 10 %)(x axis)		0.3 to 3,500 Hz	0.3 to 3,500 Hz	
Frequency Range(± 10 %)(y or z axis)		0.3 to 4,000 Hz	0.3 to 4,000 Hz	TLB - TEDS LMS International - Automotive Format Output Bias Voltage8.5 to 13 VDC8.5 to 13 VDC
Resonant Frequency		≥ 20 kHz	≥ 20 kHz	
Broadband Resolution(1 to 10,000 Hz)		0.00005 g rms	0.0005 m/s ² rms	TLC - TEDS LMS International - Aeronautical Format Output Bias Voltage8.5 to 13 VDC8.5 to 13 VDC
Phase Response(± 5 °)(at 70°F [21°C])		2 to 2,000 Hz	2 to 2,000 Hz	
Non-Linearity		≤ 1 %	≤ 1 %	TLD - TEDS Capable of Digital Memory and Communication Compliant with IEEE 1451.4 Output Bias Voltage8.5 to 13 VDC8.5 to 13 VDC
Transverse Sensitivity		≤ 5 %	≤ 5 %	
Environmental				
Overload Limit(Shock)		± 5,000 g pk	± 5,000 g pk	
Temperature Range(Operating)		-20 to +170 °F	-29 to +77 °C	
Temperature Response		See Graph	See Graph	
Base Strain Sensitivity		0.0007 g/με	0.007 (m/s ²)/με	
Electrical				
Excitation Voltage		20 to 30 VDC	20 to 30 VDC	
Constant Current Excitation		2 to 20 mA	2 to 20 mA	
Output Impedance		≤ 600 Ohm	≤ 600 Ohm	
Output Bias Voltage		8 to 12 VDC	8 to 12 VDC	
Discharge Time Constant		0.8 to 3.0 sec	0.8 to 3.0 sec	
Settling Time(within 10% of bias)		< 12 sec	< 12 sec	
Spectral Noise(1 Hz)		11.4 μg/√Hz	112 (μm/sec ²)/√Hz	
Spectral Noise(10 Hz)		4.0 μg/√Hz	39 (μm/sec ²)/√Hz	
Spectral Noise(100 Hz)		1.2 μg/√Hz	12 (μm/sec ²)/√Hz	
Spectral Noise(1 kHz)		0.4 μg/√Hz	4.4 (μm/sec ²)/√Hz	
Physical				
Sensing Element		Ceramic	Ceramic	
Sensing Geometry		Shear	Shear	
Housing Material		Titanium	Titanium	
Sealing		Hermetic	Hermetic	
Size (Height x Length x Width)		0.80 in x 1.03 in x 0.80 in	20.3 mm x 26.1 mm x 20.3 mm	
Weight		1.34 oz	39 gm	
Electrical Connector		1/4-28 4-Pin	1/4-28 4-Pin	
Electrical Connection Position		Side	Side	
Mounting Thread		10-32 Female	10-32 Female	