

Model Number 354A04		TRIAxIAL ICP® ACCELEROMETER		Revision: B ECN #: 48470	
Performance		ENGLISH		SI	
Sensitivity(± 5 %)		10.0 mV/g		1.02 mV/(m/s²)	
Measurement Range		± 500 g pk		± 4905 m/s² pk	
Frequency Range(± 5 %)		.4 to 5000 Hz		.4 to 5000 Hz	
Resonant Frequency		≥ 25 kHz		≥ 25 kHz	
Broadband Resolution(1 to 10,000 Hz)		.0005 g rms		.005 m/s² rms	
Non-Linearity		≤ 1 %		≤ 1 %	
Transverse Sensitivity		≤ 5 %		≤ 5 %	
TEDS Compliant(Per IEEE 1451.4)		Yes		Yes	
Environmental					
Overload Limit(Shock)		± 5000 g pk		± 49,050 m/s² pk	
Temperature Range(Operating)		-65 to +200 °F		-54 to +93 °C	
Temperature Response		See Graph		See Graph	
Base Strain Sensitivity		.004 g/με		.04 (m/s²)/με	
Electrical					
Excitation Voltage		24 to 30 VDC		24 to 30 VDC	
Constant Current Excitation		2 to 20 mA		2 to 20 mA	
Output Impedance		≤ 100 Ohm		≤ 100 Ohm	
Output Bias Voltage		8 to 12 VDC		8 to 12 VDC	
Discharge Time Constant		1 to 3 sec		1 to 3 sec	
Settling Time(within 10% of bias)		<5 sec		<5 sec	
Spectral Noise(1 Hz)		170 μg/√Hz		1668 (μm/sec²)/√Hz	
Spectral Noise(10 Hz)		25 μg/√Hz		245 (μm/sec²)/√Hz	
Spectral Noise(100 Hz)		8 μg/√Hz		78 (μm/sec²)/√Hz	
Spectral Noise(1 kHz)		6 μg/√Hz		59 (μm/sec²)/√Hz	
Spectral Noise(10 kHz)		4.0 μg/√Hz		39 (μm/sec²)/√Hz	
Electrical Isolation(Case)		>10 ⁸ Ohm		>10 ⁸ Ohm	
Physical					
Sensing Element		Ceramic		Ceramic	
Sensing Geometry		Shear		Shear	
Housing Material		Titanium		Titanium	
Sealing		Hermetic		Hermetic	
Size (Height x Length x Width)		.38 in x .82 in x .82 in		9.7 mm x 20.7 mm x 20.7 mm	
Weight		0.51 oz		14.5 gm	
Electrical Connector		1/4-28 4-Pin		1/4-28 4-Pin	
Electrical Connection Position		Side		Side	
Mounting		Through Hole		Through Hole	
Typical Sensitivity Deviation vs Temperature					