

Model Number 356B20		ACCELEROMETER, ICP® , TRIAXIAL		Revision D ECN #: 19913	
Performance		ENGLISH		SI	
Sensitivity (±20 %)		1.0 mV/g		0.1 mV/(m/s²)	
Measurement Range		±5000 g pk		±49050 m/s² pk	
Frequency Range (±5 %) (y or z axis)		2 to 10000 Hz		2 to 10000 Hz	
Frequency Range (±5 %) (x axis)		2 to 7000 Hz		2 to 7000 Hz	
Resonant Frequency		≥55 kHz		≥55 kHz	
Broadband Resolution (1 to 10000 Hz)		0.03 g rms		0.29 m/s² rms	
Non-Linearity		≤2.5 %		≤2.5 %	
Transverse Sensitivity		≤5 %		≤5 %	
Environmental					
Overload Limit (Shock)		±7000 g pk		±68600 m/s² pk	
Temperature Range (Operating)		-65 to +250 °F		-54 to +121 °C	
Temperature Response		See Graph		See Graph	
Electrical					
Excitation Voltage		18 to 30 VDC		18 to 30 VDC	
Constant Current Excitation		2 to 20 mA		2 to 20 mA	
Output Impedance		≤200 ohm		≤200 ohm	
Output Bias Voltage		7 to 11 VDC		7 to 11 VDC	
Discharge Time Constant		1.5 to 3.0 sec		1.5 to 3.0 sec	
Settling Time (within 10% of bias)		<10 sec		<10 sec	
Spectral Noise (1 Hz)		9000 µg/√Hz		88290 (µm/sec²)/√Hz	
Spectral Noise (10 Hz)		2500 µg/√Hz		24525 (µm/sec²)/√Hz	
Spectral Noise (100 Hz)		800 µg/√Hz		7848 (µm/sec²)/√Hz	
Spectral Noise (1 kHz)		250 µg/√Hz		2453 (µm/sec²)/√Hz	
Physical					
Sensing Element		Ceramic		Ceramic	
Sensing Geometry		Shear		Shear	
Housing Material		Titanium		Titanium	
Sealing		Hermetic		Hermetic	
Size (Height x Length x Width)		0.4 in x 0.4 in x 0.4 in		10.2 mm x 10.2 mm x 10.2 mm	
Weight		0.14 oz		4 gm	
Electrical Connector		8-36 4-Pin		8-36 4-Pin	
Electrical Connection Position		Side		Side	
Mounting Thread		5-40 Female		5-40 Female	
Mounting Torque		4 to 5 in-lb		45 to 56 N-cm	

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