

Model Number 3503C2060KG		SURFACE MOUNT PIEZORESISTIVE TRIAXIAL SHOCK ACCELEROMETER				Revision: A ECN #: 48004													
Performance		ENGLISH	SI		OPTIONAL VERSIONS														
Sensitivity(± 50 %)(at 5 VDC excitation)		0.0015 mV/g	0.00015 mV/(m/s²)	[1]	Optional versions have identical specifications and accessories as listed for the standard model except where noted below. More than one option may be used.														
Sensitivity		0.0003 mV/V/g	0.00003 mV/V/(m/s²)	[5]															
Measurement Range		± 60 kg	± 588,400 m/s² pk																
Frequency Range(± 1 dB)		0 to 10,000 Hz	0 to 10,000 Hz	[4]															
Resonant Frequency		>150 kHz	>150 kHz	[4]															
Damping Ratio		2 % Critical	2 % Critical	[4]	NOTES: [1] Verified with test data provided on supplied calibration certificate. [2] Settling Time is the maximum time after power-up for the Offset Voltage to be within +/-2% of Measurement Range output of the final offset value. Mounting surface must be at thermal equilibrium. [3] Half-sine pulse duration, ≥ 20 µsec. [4] Typical. [5] Sensitivity is proportional to excitation voltage, and at other excitation values, sensitivity can be predicted from the 5VDC calibrated value with a small (<~.5%) increase in uncertainty.														
Non-Linearity(per 10,000 g (98,100 m/s²))		≤ 1 %	≤ 1 %																
Transverse Sensitivity		≤ 3 %	≤ 3 %																
Environmental																			
Overload Limit(Shock)		± 80,000 g pk	± 784,532 m/s² pk	[3]															
Overload Limit(Mechanical Stops)		≥ 80 kg	≥ 784,532 m/s² pk		SUPPLIED ACCESSORIES: Model ACS-62BT Shock Pulse Calibration of triaxial piezoresistive shock accelerometer to maximum amplitude of 5k g, 5.0 VDC excitation														
Temperature Range(Storage)		-65 to 250 °F	-54 to 121 °C																
Temperature Range(Operating)		-65 to 150 °F	-54 to 65 °C																
Temperature Coefficient of Sensitivity		-0.11 %/°F	-0.20 %/°C	[4]															
Zero g Offset Temperature Shift		± 10 mV	± 10 mV																
Base Strain Sensitivity		0.3 g/µε	2.94 (m/s²)/µε	[4]	<table><tr><td>Entered: LK</td><td>Engineer: LAB</td><td>Sales: RWM</td><td>Approved: NJF</td><td>Spec Number:</td></tr><tr><td>Date: 3/20/2018</td><td>Date: 3/20/2018</td><td>Date: 3/20/2018</td><td>Date: 3/20/2018</td><td>60566</td></tr></table>			Entered: LK	Engineer: LAB	Sales: RWM	Approved: NJF	Spec Number:	Date: 3/20/2018	Date: 3/20/2018	Date: 3/20/2018	Date: 3/20/2018	60566		
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Electrical																			
Excitation Voltage(Maximum)		12 VDC	12 VDC																
Current Consumption		≤ 9 mA	≤ 9 mA																
Input Resistance(± 700 Ohm)		2000 Ohm	2000 Ohm	[1]	<table><tr><td colspan="2">Entered: LK</td><td>Engineer: LAB</td><td>Sales: RWM</td><td>Approved: NJF</td><td>Spec Number:</td></tr><tr><td colspan="2">Date: 3/20/2018</td><td>Date: 3/20/2018</td><td>Date: 3/20/2018</td><td>Date: 3/20/2018</td><td>60566</td></tr></table>			Entered: LK		Engineer: LAB	Sales: RWM	Approved: NJF	Spec Number:	Date: 3/20/2018		Date: 3/20/2018	Date: 3/20/2018	Date: 3/20/2018	60566
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Output Resistance(± 2000 Ohm)		6000 Ohm	6000 Ohm	[1]															
Offset Voltage		-20 to +20 mVDC	-20 to +20 mVDC	[1]															
Settling Time		0.01 sec	0.01 sec	[2]															
Physical					<table><tr><td colspan="2">Entered: LK</td><td>Engineer: LAB</td><td>Sales: RWM</td><td>Approved: NJF</td><td>Spec Number:</td></tr><tr><td colspan="2">Date: 3/20/2018</td><td>Date: 3/20/2018</td><td>Date: 3/20/2018</td><td>Date: 3/20/2018</td><td>60566</td></tr></table>			Entered: LK		Engineer: LAB	Sales: RWM	Approved: NJF	Spec Number:	Date: 3/20/2018		Date: 3/20/2018	Date: 3/20/2018	Date: 3/20/2018	60566
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Sensing Element		Piezoresistive MEMS	Piezoresistive MEMS																
Sensing Geometry		Full Active	Full Active																
Housing Material		Ceramic	Ceramic																
Sealing		Hermetic	Hermetic		<table><tr><td colspan="2">Entered: LK</td><td>Engineer: LAB</td><td>Sales: RWM</td><td>Approved: NJF</td><td>Spec Number:</td></tr><tr><td colspan="2">Date: 3/20/2018</td><td>Date: 3/20/2018</td><td>Date: 3/20/2018</td><td>Date: 3/20/2018</td><td>60566</td></tr></table>			Entered: LK		Engineer: LAB	Sales: RWM	Approved: NJF	Spec Number:	Date: 3/20/2018		Date: 3/20/2018	Date: 3/20/2018	Date: 3/20/2018	60566
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Size (Height x Length x Width)		0.15 in x 0.38 in x 0.28 in	3.8 mm x 9.6 mm x 7.1 mm																
Weight		0.029 oz	0.82 gm	[4]															
Electrical Connector		Solder Tabs	Solder Tabs																
Mounting		Surface Mount	Surface Mount		<table><tr><td colspan="2">Entered: LK</td><td>Engineer: LAB</td><td>Sales: RWM</td><td>Approved: NJF</td><td>Spec Number:</td></tr><tr><td colspan="2">Date: 3/20/2018</td><td>Date: 3/20/2018</td><td>Date: 3/20/2018</td><td>Date: 3/20/2018</td><td>60566</td></tr></table>			Entered: LK		Engineer: LAB	Sales: RWM	Approved: NJF	Spec Number:	Date: 3/20/2018		Date: 3/20/2018	Date: 3/20/2018	Date: 3/20/2018	60566
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All specifications are at room temperature unless otherwise specified.																			
In the interest of constant product improvement, we reserve the right to change specifications without notice.																			