



Model Number 3503C202KG		SURFACE MOUNT PIEZORESISTIVE TRIAXIAL SHOCK ACCELEROMETER			Revision: A ECN #: 48004											
Performance		ENGLISH	SI		OPTIONAL VERSIONS											
Sensitivity(± 50 %)(at 5 VDC excitation)		0.10 mV/g	0.01 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		0.02 mV/V/g	0.002 mV/V/(m/s²)	[5]												
Measurement Range		± 2 kg	± 19,613 m/s² pk													
Frequency Range(± 1 dB)		0 to 10,000 Hz	0 to 10,000 Hz	[4]												
Resonant Frequency		>20 kHz	>20 kHz	[4]												
Damping Ratio(+/-0.3)		0.7 critical	0.7 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 1000 g, 9810 m/s²)		≤ 1 %	≤ 1 %													
Transverse Sensitivity		≤ 3 %	≤ 3 %													
Environmental																
Overload Limit(Shock)		± 10,000 g pk	± 98,100 m/s² pk	[3]												
Overload Limit(Mechanical Stops)		≥ 2.2 kg	≥ 21,582 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		± 20 mV	± 20 mV													
Base Strain Sensitivity		0.01 g/µε	0.098 (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>61701</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	61701
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Date: 3/20/2018	Date: 3/20/2018	Date: 3/20/2018	Date: 3/20/2018	61701												
Electrical																
Excitation Voltage(Maximum)		12 VDC	12 VDC													
Current Consumption		≤ 24 mA	≤ 24 mA													
Input Resistance(± 450 Ohm)		950 Ohm	950 Ohm	[1]	<div> Phone: 716-684-0001 Fax: 716-684-0987 E-Mail: info@pcb.com</div> <div>3425 Walden Avenue, Depew, NY 14043</div>											
Output Resistance(± 1250 Ohm)		2750 Ohm	2750 Ohm	[1]												
Offset Voltage		-20 to +20 mVDC	-20 to +20 mVDC	[1]												
Settling Time		0.01 sec	0.01 sec	[2]												
Physical																
Sensing Element		Piezoresistive MEMS	Piezoresistive MEMS		<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>61701</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	61701
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Sensing Geometry		Full Active	Full Active													
Housing Material		Ceramic	Ceramic													
Sealing		Hermetic	Hermetic													
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		<div> Phone: 716-684-0001 Fax: 716-684-0987 E-Mail: info@pcb.com</div> <div>3425 Walden Avenue, Depew, NY 14043</div>											
Weight		0.029 oz	0.82 gm	[4]												
Electrical Connector		Solder Tabs	Solder Tabs													
Mounting		Surface Mount	Surface Mount													
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.																