

Model Number  
3713B11200G

## TRIAxIAL DC RESPONSE ACCELEROMETER

Revision A  
ECN #: 34523

### Performance

	ENGLISH	SI	
Sensitivity ( $\pm 10\%$ )	10 mV/g	1.0 mV/(m/s <sup>2</sup> )	[5]
Measurement Range	$\pm 200$ g pk	$\pm 1962.0$ m/s <sup>2</sup> pk	
Frequency Range ( $\pm 5\%$ )	0 to 850 Hz	0 to 850 Hz	
Frequency Range ( $\pm 10\%$ )	0 to 1250 Hz	0 to 1250 Hz	
Resonant Frequency	$\geq 11$ kHz	$\geq 11$ kHz	
Phase Response (100 Hz)	$< 10^\circ$	$< 10^\circ$	
Broadband Resolution (0.5 to 100 Hz)	21.1 mg rms	.21 m/s <sup>2</sup> rms	[2]
Non-Linearity	$\leq 1\%$	$\leq 1\%$	[6]
Transverse Sensitivity	$\leq 3\%$	$\leq 3\%$	

### Environmental

Overload Limit (Shock)	$\pm 3000$ g pk	$\pm 29420$ m/s <sup>2</sup> pk	
Temperature Range (Operating)	-65 to +250 °F	-54.0 to +121 °C	
Temperature Range (Storage)	-65 to +250 °F	-54.0 to +121 °C	
Temperature Coefficient of Sensitivity	$\pm 3\%$	$\pm 3\%$	[3]
Zero g Offset Temperature Coefficient	$\pm 2\%$ FSO	$\pm 2\%$ FSO	[4][3]
Base Strain Sensitivity	.0005 g/ $\mu\epsilon$	.005 (m/s <sup>2</sup> )/ $\mu\epsilon$	[2]
Magnetic Sensitivity	70 $\mu\text{g/gauss}$	6.9 (m/s <sup>2</sup> )/Tesla	[2]

### Electrical

Excitation Voltage	6 to 30 VDC	6 to 30 VDC	
Current Consumption	$\leq 5$ mA	$\leq 5$ mA	
Output Impedance	$\leq 100$ ohm	$\leq 100$ ohm	
Offset Voltage (0 g)	$\pm 40$ mVDC	$\pm 40$ mVDC	[1]
Spectral Noise (1 to 1000 Hz)	2518 $\mu\text{g}/\sqrt{\text{Hz}}$	24693 ( $\mu\text{m}/\text{sec}^2$ )/ $\sqrt{\text{Hz}}$	[2]
Electrical Isolation (Case)	$> 10^8$ ohm	$> 10^8$ ohm	

### Physical

Housing Material	Titanium	Titanium	
Sealing	Hermetic	Hermetic	
Size (Length x Width x Height)	0.8 in x 0.8 in x 0.8 in	20.3 mm x 20.3 mm x 20.3 mm	
Weight	0.6 oz	17.3 gm	
Electrical Connector	9-Pin	9-Pin	
Electrical Connection Position	Side	Side	
Mounting Thread	10-32 Female	10-32 Female	



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.

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**Optional Versions** (Optional versions have identical specifications and accessories as listed for standard model except where noted below. More than one option maybe used.)

### Notes

- [1] Offset tolerance is based on 10 ft of 037 test cable.
- [2] Typical.
- [3] -65 to +250 °F, ref. 75 °F (-54 to +121 °C, ref. 24 °C)
- [4] FSO = Full Scale Output over the Measurement Range (4VDC).
- [5] Measured at 100 Hz, 10 grms.
- [6] Zero-based, least-squares, straight line method.
- [7] See PCB Declaration of Conformance PS027 for details.

### Supplied Accessories

- 080A12 Adhesive Mounting Base (1)
- 081B05 Mounting Stud (10-32 to 10-32) (1)
- ACS-103T Triaxial Calibration Phase and Magnitude from 2 Hz to +5% using Linear scale (1)
- M081B05 Mounting Stud 10-32 to M6 X 0.75 (1)

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