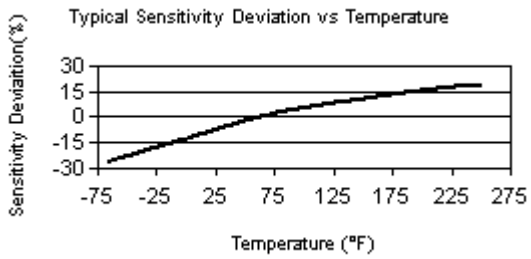
Model Number	VOLTAGE OUTPUT TO-8 ACCELEROMETER	Revision: NR
66333PNZ1		ECN #: 41479

Performance	**ENGLISH**	**SI**	
Sensitivity(± 20 %)	1000 mV/g	102 mV/(m/s²)	[2][3]
Measurement Range	± 2 g	± 20 m/s²	[4]
Frequency Range(± 3 dB)	0.5 to 5000 Hz	0.5 to 5000 Hz	[5][6]
Resonant Frequency	>16 kHz	>16 kHz	[6]
Broadband Resolution	0.00104 g rms	0.010202 m/s² rms	[1]
Non-Linearity	≤ 1 %	≤ 1 %	[7]
Transverse Sensitivity	≤ 7 %	≤ 7 %	
Environmental			
Overload Limit(Shock)	5000 g pk	49,000 m/s² pk	
Temperature Range(Operating)	-65 to 185 °F	-54 to 85 °C	
Temperature Response	See Graph	See Graph	[1]
Electrical			
Settling Time(within 1% of bias)	≤ 2 sec	≤ 2 sec	
Discharge Time Constant	≥ 0.4 sec	≥ 0.4 sec	
Excitation Voltage	3 to 12 VDC	3 to 12 VDC	
Output Impedance	<100 Ohm	<100 Ohm	
Current Draw	0.75 mA	0.75 mA	
Output Bias Voltage	0.5 x Excitation Voltage	0.5 x Excitation Voltage	
Spectral Noise(10 Hz)	39 µg/√Hz	383 (µm/sec^2)/√Hz	[1]
Spectral Noise(100 Hz)	15 µg/√Hz	147 (µm/sec^2)/√Hz	[1]
Spectral Noise(1 kHz)	9 µg/√Hz	88 (µm/sec^2)/√Hz	[1]
Physical			
Size (Diameter x Height)	0.64 in x 0.57 in	16.3 mm x 14.5 mm	
Weight	0.88 oz	25 gm	
Mounting	Adhesive/Solder	Adhesive/Solder	
Sensing Element	Ceramic	Ceramic	
Sensing Geometry	Shear	Shear	
Housing Material	Stainless Steel	Stainless Steel	
Sealing	Welded Hermetic	Welded Hermetic	
Electrical Connector	Header Pins	Header Pins	
Electrical Connection Position	Bottom	Bottom	
Electrical Connections(Pin 1)	Output	Output	
Electrical Connections(Pin 2)	Neg (-) Ground	Neg (-) Ground	
Electrical Connections(Pin 3)	Pos (+) VDC	Pos (+) VDC	



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 the standard model except where noted below. More than one option may be used.

HT - High temperature, extends normal operation temperatures

Temperature Range	-65 to 250 °F	-54 to 121 °C

RH - RoHS Compliant

NOTES:

[1] Typical.
[2] Conversion Factor 1g = 9.81 m/s².
[3] Negative output for acceleration along Z-axis (in upward direction when pin mounted).
[4] Measurement range achieved is dependent upon excitation voltage.
[5] The high frequency tolerance is accurate within ±10% of the specified frequency.
[6] Performance depends on mounting
[7] Zero-based, least-squares, straight line method.

SUPPLIED ACCESSORIES:

Model ICS-2 NIST-traceable single-axis single-point amplitude response calibration at 6000 cpm (100 Hz) (1)

Entered: AP	Engineer: jg	Sales: EGY	Approved: BAM	Spec Number:
Date: 6/6/2013	Date: 6/6/2013	Date: 6/6/2013	Date: 6/6/2013	**56152**

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