Model Number 3753A122G	TRIAXIAL VC MEMS ACCELEROMETER	Revision: NR ECN #: 56326

Performance	ENGLISH	SI	
Sensitivity(± 10 %)	1,000 mV/g	101.9 mV/(m/s²)	[1]
Measurement Range	± 2 g pk	± 19.6 m/s² pk	
Frequency Range(± 5 %)	0 to 750 Hz	0 to 750 Hz	
Frequency Range(± 3 dB)	0 to 1,500 Hz	0 to 1,500 Hz	
Resonant Frequency	2.4 kHz	2.4 kHz	[2]
Phase Response(10 Hz)	< 2.5 °	< 2.5 °	
Non-Linearity	0.2 %	0.2 %	[3][2]
Broadband Resolution(0.5 to 100 Hz)	160 µg rms	1,570 µm/sec² rms	[2]
Transverse Sensitivity	1 %	1 %	[2]
Environmental			
Overload Limit(Shock)	± 5,000 g pk	± 49,050 m/s² pk	
Temperature Range(Operating)	-40 to +250 °F	-40 to +121 °C	
Temperature Coefficient of Sensitivity	± 1 %	± 1 %	[2][4]
Zero g Offset Temperature Coefficient	± 1 % FSO	± 1 % FSO	[5][2][4]
Base Strain Sensitivity	0.0006 g/µε	0.006 (m/s²)/µε	[2]
Electrical			
Bias Voltage	2.4 to 2.6 VDC	2.4 to 2.6 VDC	
Excitation Voltage	5 to 32 VDC	5 to 32 VDC	
Current Consumption	≤ 3 mA	≤ 3 mA	
Output Impedance	≤ 450 Ohm	≤ 450 Ohm	
Spectral Noise(1 Hz)	15 µg/√Hz	147 (µm/s²)/√Hz	[2]
Spectral Noise(10 Hz)	18 µg/√Hz	177 (µm/s²)/√Hz	[2]
Spectral Noise(100 Hz)	15 µg/√Hz	147 (µm/s²)/√Hz	[2]
Electrical Isolation(Case)	> 10^8 Ohm	> 10^8 Ohm	
Physical			
Housing Material	Anodized Aluminum	Anodized Aluminum	
Sealing	IP67	IP67	
Size (Length x Width x Height)	1.00 in x 0.75 in x 0.35 in	25.4 mm x 19.1 mm x 8.9 mm	
Weight(without cable)	0.42 oz	12 gm	[2]
Electrical Connector	Integral Cable	Integral Cable	
Electrical Connection Position	Side	Side	
Cable Termination	Pigtail	Pigtail	
Cable Type	6-conductor	6-conductor	
Cable Length	10 ft	3 m	
Mounting	Through Holes (2)	Through Holes (2)	

CE

UK CA [6]

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.
This model, designated with an RH prefix, is RoHS compliant. For further details, and to obtain PCB's RoHS Statement of Conformance, please visit http://www.pcb.com

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.

NOTES:

[1]Measured at 100Hz, 0.5 grms
[2]Typical.
[3]Zero-based, least-squares, straight line method.
[4]-40 to +250°F, ref. 75 °F (-40 to +121 °C, ref. 24 °C)
[5]FSO= Full Scale Output over the Measurement Range
[6]See PCB Declaration of Conformance PS027 for details.

SUPPLIED ACCESSORIES:

Model 081A136 Mounting Screw Assembly 4-40 x 1/2" (2)
Model ACS-1T NIST traceable triaxial amplitude response, 10 Hz to upper 5% frequency. (1)
Model M081A136 Mounting Screw Assembly M3 x 0.5 x 14mm (2)

Entered: ND	Engineer: LAB	Sales: JM	Approved: NJF	Spec Number:
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