Model Number	DC RESPONSE ACCELEROMETER	Revision: A
3741F12100G		ECN #: 49164

Performance	**ENGLISH**	**SI**	
Sensitivity(± 3 %)	27 mV/g	2.75 mV/(m/s²)	[6]
Measurement Range	± 100 g pk	± 980.7 m/s² pk	
Frequency Range(± 5 %)	0 to 1500 Hz	0 to 1500 Hz	
Frequency Range(± 10 %)	0 to 2500 Hz	0 to 2500 Hz	
Resonant Frequency	8.5 kHz	8.5 kHz	[2]
Phase Response(100 Hz)	<10 °	<10 °	
Broadband Resolution(0.5 to 100 Hz)	3.5 mg rms	.034 m/s² rms	[2]
Non-Linearity	≤ 1 % FS	≤ 1 % FS	[7]
Transverse Sensitivity	≤ 3 %	≤ 3 %	
Environmental			
Overload Limit(Shock)	± 5000 g pk	± 49,050 m/s² 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	± 2.5 %	± 2.5 %	[4]
Zero g Offset Temperature Coefficient	± 1.5 % FSO	± 1.5 % FSO	[5][4]
Base Strain Sensitivity	0.002 g/με	.02 (m/s²)/με	[2]
Magnetic Sensitivity	40 μg/gauss	3.9 (m/s²)/Tesla	[2]
Electrical			
Excitation Voltage	5 to 32 VDC	5 to 32 VDC	
Current Consumption	≤ 5 mA	≤ 5 mA	
Output Impedance	≤ 120 Ohm	≤ 120 Ohm	
Offset Voltage(0 g)	± 20 mVDC	± 20 mVDC	[1]
Common Mode Voltage(± 0.1 VDC)	+1.65 VDC	+1.65 VDC	
Spectral Noise(1 to 100 Hz)	500 μg/√Hz	4905 (μm/sec^2)/√Hz	[2]
Electrical Isolation(Case)	>10^8 Ohm	>10^8 Ohm	[3]
Physical			
Housing Material	Anodized Aluminum	Anodized Aluminum	
Sealing	Epoxy	Epoxy	
Size (Height x Length x Width)	0.30 in x 1.00 in x .85 in	7.62 mm x 25.4 mm x 21.6 mm	
Weight(without cable)	0.35 oz	9.92 gm	[2]
Electrical Connector	Integral Cable	Integral Cable	
Electrical Connection Position	Side	Side	
Cable Termination	Pigtail Ends	Pigtail Ends	
Cable Type	010 4-cond Shielded	010 4-cond Shielded	
Cable Length	10 ft	3 m	
Mounting	Through Holes (2)	Through Holes (2)	

CE [8]

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] Offset tolerance is based on manufacturers supplied cable length.
[2] Typical.
[3] Case and shield to mounting surface or cable leads.
[4] -65 to +250 °F, ref. 75 °F (-54 to +121 °C, ref. 24 °C)
[5] FSO = Full Scale Output over the Measurement Range (8VDC).
[6] Measured at 100 Hz, 10 grms.
[7] Zero-based, least-squares, straight line method.
[8] See PCB Declaration of Conformance PS027 for details.

SUPPLIED ACCESSORIES:

Model 081A103 Mounting screw (2)
Model ACS-172 Phase and Amplitude Calibration from 5 Hz to +5% frequency range (1)
Model M081A103 Mounting screw and washer, M3 x 0.5 thread (2)

OPTIONAL ACCESSORIES:

Model 080A208 Triaxial mounting block

Entered: LK	Engineer: NJF	Sales: WDC	Approved: NJF	Spec Number:
Date: 2/15/2019	Date: 2/15/2019	Date: 2/15/2019	Date: 2/15/2019	**69814**

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