

	ENGLISH	SI	
Performance			
Sensitivity(± 50 %)(at 10 VDC excitation)	0.010 mV/g	0.001 mV/(m/s ²)	[2]
Sensitivity	0.001 mV/V/g	0.0001 mV/V/(m/s ²)	[7]
Measurement Range	± 0 to 20,000 g	± 0 to 196,100 m/s ² pk	
Frequency Range(± 1 dB)	0 to 10,000 Hz	0 to 10,000 Hz	
Resonant Frequency	>60 kHz	>60 kHz	
Damping Ratio	5 % Critical	5 % Critical	[1]
Non-Linearity	± 1 %	± 1 %	
Transverse Sensitivity	≤ 3 %	≤ 3 %	
Environmental			
Overload Limit(Shock)	± 60,000 g pk	± 588,000 m/s ² pk	[5][4]
Overload Limit(Mechanical Stops)	≥ 30 kg	≥ 294,200 m/s ² pk	
Temperature Range(Operating)	-65 to 250 °F	-54 to 121 °C	
Temperature Coefficient of Sensitivity	-0.11 %/°F	-0.20 %/°C	[1]
Zero g Offset Temperature Shift	± 10 mV	± 10 mV	[6]
Base Strain Sensitivity	0.10 g/με	0.98 (m/s ²)/με	[1]
Electrical			
Excitation Voltage(Maximum)	15.0 VDC	15.0 VDC	
Current Consumption	<12 mA	<12 mA	
Input Resistance(± 700 ohm)	2000 ohm	2000 ohm	[1][2]
Output Resistance(± 2000 ohm)	6000 ohm	6000 ohm	[1][2]
Offset Voltage	± 40 mVDC	± 40 mVDC	[2]
Settling Time	0.01 sec	0.01 sec	[3]
Electrical Isolation(Base)	≥ 10 ⁸ ohm	≥ 10 ⁸ ohm	[4]
Physical			
Sensing Element	Piezoresistive MEMS	Piezoresistive MEMS	
Sensing Geometry	Full Active	Full Active	
Housing Material	Titanium	Titanium	
Sealing	Epoxy	Epoxy	
Size (Height x Length x Width)	0.25 in x 0.47 in x 0.47 in	6.35 mm x 11.81 mm x 11.81 mm	
Weight(without cable)	0.1 oz	2.83 gm	[1]
Electrical Connector	Integral Cable	Integral Cable	
Electrical Connection Position	Side	Side	
Cable Type	026 8-conductor cable, shielded Teflon®	026 8-conductor cable, shielded Teflon®	
Cable Termination	Pigtail Ends	Pigtail Ends	
Cable Length	10 ft	3.05 m	
Mounting	Through Holes (2)	Through Holes (2)	
Mounting Torque	8 in-lb	90 N-cm	

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] Typical.
 [2] Verified with test data provided on supplied calibration certificate.
 [3] 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.
 [4] Individually tested to ensure compliance with specified value.
 [5] Half-sine pulse duration, ≥ 20 μsec.
 [6] -65 to +250 °F, ref. 75 °F (-54 to +121 °C, ref. 24 °C)
 [7] Sensitivity is proportional to excitation voltage, and at other excitation values, sensitivity can be predicted from the 10VDC calibrated value with a small (<~.5%) increase in uncertainty.

SUPPLIED ACCESSORIES:

Model 081A114 MOUNTING SCREW AND WASHER(4-40 x 3/8" SHCS) (2)
 Model ACS-62T CALIBRATION OF HIGH G PR ACCCELEROMETER (1)

Entered: DMW	Engineer: TCJ	Sales: RWM	Approved: BAM	Spec Number:
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*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.*