



Model Number 3741B12100G		DC RESPONSE ACCELEROMETER			Revision: B ECN #: 39611	
Performance		ENGLISH		SI		
Sensitivity(± 5 %)		20 mV/g		2.04 mV/(m/s²)		
Measurement Range		± 100 g pk		± 980.7 m/s² pk		
Frequency Range(± 5 %)		0 to 1000 Hz		0 to 1000 Hz		
Frequency Range(± 10 %)		0 to 1500 Hz		0 to 1500 Hz		
Resonant Frequency		>7.2 kHz		>7.2 kHz		
Phase Response(100 Hz)		<10 °		<10 °		
Broadband Resolution(0.5 to 100 Hz)		12.0 mg rms		.12 m/s² rms		
Non-Linearity		≤ 1 % FS		≤ 1 % FS		
Transverse Sensitivity		≤ 3 %		≤ 3 %		
Environmental						
Overload Limit(Shock)		± 3000 g pk		± 29,420 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		± 3.0 %		± 3.0 %		
Zero g Offset Temperature Coefficient		± 2.0 %FSO		± 2.0 %FSO		
Base Strain Sensitivity		0.0002 g/με		.002 (m/s²)/με		
Electrical						
Excitation Voltage		6 to 30 VDC		6 to 30 VDC		
Current Consumption		≤ 6 mA		≤ 6 mA		
Output Impedance		≤ 100 Ohm		≤ 100 Ohm		
Offset Voltage(0 g)		± 40 mVDC		± 40 mVDC		
Common Mode Voltage(± 0.1 VDC)		+2.5 VDC		+2.5 VDC		
Spectral Noise(1 to 100 Hz)		1300 μg/√Hz		12,749 (μm/sec²)/√Hz		
Electrical Isolation(Case)		>10⁸ Ohm		>10⁸ Ohm		
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		
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)		
						
[8]						
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 (4VDC). [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-103 Phase and Amplitude Calibration from 2 Hz to +5% of frequency range (1) Model M081A103 Mounting screw and washer, M3 x 0.5 thread (2)						
OPTIONAL ACCESSORIES: Model 080A208 Triaxial mounting block						
Entered: AP		Engineer: RPF		Sales: RWM		
Date: 7/31/2012		Date: 7/31/2012		Date: 7/31/2012		
Approved: BAM		Spec Number:		46235		
						
3425 Walden Avenue, Depew, NY 14043						
Phone: 716-684-0001 Fax: 716-684-0987 E-Mail: info@pcb.com						
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.						