Model Number
EX615A42

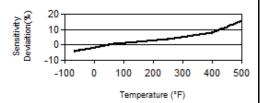
HIGH TEMPERATURE INDUSTRIAL ACCELEROMETER

Revision: A

FCN	#.	47864

ENGTONIE			
Performance	ENGLISH	SI	
Sensitivity(± 5 %)	100 pC/g	10.2 pC/(m/s²)	[2]
Measurement Range	+/-200 g pk	+/-2000 m/s² pk	
Frequency Range(± 5 %)	5 kHz	5 kHz	[3]
Frequency Range(± 10 %)	6 kHz	6 kHz	
Resonant Frequency	>20 kHz	>20 kHz	[1]
Non-Linearity(<200 g pk)	± 1 %	± 1 %	[4]
Transverse Sensitivity	<5 %	<5 %	[5]
Environmental			
Overload Limit(Shock)	1000 g pk	9800 m/s² pk	
Temperature Range	-65 to +500 °F	-54 to +260 °C	
Temperature Response	See Graph	See Graph	
Temperature Response	+.03 %/°F	+.06 %/°C	[1]
Temperature Response	See Graph	See Graph	
Base Strain Sensitivity	0.003 g/με	0.03 (m/s²)/με	[1]
Enclosure Rating	IP68	IP68	
Electrical			
Capacitance(Pin to Pin)	11,100 pF	11,100 pF	[1]
Capacitance(with integral cable)	35 pF/ft	115 pF/m	
Insulation Resistance(at 500F)	≥ 10 ⁷ Ohm	≥ 10 ⁷ Ohm	
Insulation Resistance(at room temp)	≥ 10 ⁹ Ohm	≥ 10 ⁹ Ohm	
Electrical Isolation(Case)	>10 ⁸ Ohm	>10 ⁸ Ohm	
Physical			
Sensing Element	Ceramic	Ceramic	
Sensing Geometry	Shear	Shear	
Housing Material	Stainless Steel	Stainless Steel	
Sealing	Welded Hermetic	Welded Hermetic	
Size (Height x Length x Width)	.89 in x 1.58 in x 1.58 in	23 mm x 40 mm x 40 mm	
Weight(without cable)	6.7 oz	190 gm	[1]
Mounting	Through Holes (4)	Through Holes (4)	
Cable Length	10 ft	3 m	
Cable Termination	Pigtail	Pigtail	
Cable Type	Armored 3-wire, low-noise PTFE	Armored 3-wire, low-noise PTFE	
	cable	cable	
Mounting Torque	11 ft-lb	15 Nm	

Typical Sensitivity Deviation vs Temperature







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. ICP® is a registered trademark of PCB Group, Inc.

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.

- [1] Typical.
 [2] Conversion Factor 1g = 9.81 m/s².
 [3] 1Hz = 60 cpm (cycles per minute).
 [4] Zero-based, least-squares, straight line method.
 [5] Transverse sensitivity is typically ≤ 3%.

SUPPLIED ACCESSORIES:

Model 081C108 Mounting Screw, 1/4-28x1, Inconel (4)
Model ICS-1 NIST-traceable single-axis amplitude response calibration from 600 cpm (10 Hz) to upper 5% frequency (3)

Entered: LK	Engineer: JR	Sales: MC	Approved: JJB	Spec Number:
Date: 2/14/2018	Date: 2/14/2018	Date: 2/14/2018	Date: 2/14/2018	58202



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