

Model Number
EX357A95

SHEAR CHARGE OUTPUT ACCELEROMETER

Revision: NR
ECN #: 49949

Performance

	ENGLISH	SI
Sensitivity(± 10 %)	3.3 pC/g	0.34 pC/(m/s ²)
Measurement Range	± 1,000 g pk	± 9,800 m/s ² pk
Frequency Range(± 5 %)	3 kHz	3 kHz
Frequency Range(± 1 dB)	5 kHz	5 kHz
Resonant Frequency	≥ 15 kHz	≥ 15 kHz
Non-Linearity(per full scale range)	≤ 1.0 %	≤ 1.0 %
Transverse Sensitivity	≤ 5 %	≤ 5 %

Environmental

	ENGLISH	SI
Overload Limit(Shock)	± 2,000 g pk	± 19,600 m/s ² pk
Temperature Range(Operating)	-67 to 1,200 °F	-55 to 649 °C
Temperature Range(Survivable Limit)	-67 to 1,400 °F	-55 to 760 °C
Temperature Range(Cable Termination)	-67 to 900 °F	-55 to 482 °C
Temperature Response	See graph	See graph
Radiation Exposure Limit(Integrated Neutron Flux)	1 E10 N/cm ²	1 E10 N/cm ²
Radiation Exposure Limit(Integrated Gamma Flux)	1 E8 rad	1 E8 rad

Electrical

	ENGLISH	SI
Capacitance	520 pF	520 pF
Insulation Resistance(@ 1200°F[649°C])	≥ 10 kohm	≥ 10 kohm
Insulation Resistance(@ 70° F [21°C])	≥ 100 MOhm	≥ 100 MOhm
Output Polarity	Differential	Differential
Electrical Isolation	Signal isolated from case	Signal isolated from case

Physical

	ENGLISH	SI
Sensing Element	UHT-12™	UHT-12™
Sensing Geometry	Shear	Shear
Housing Material	Nickel Alloy	Nickel Alloy
Sealing(Sensor Housing)	Hermetic	Hermetic
Sealing(Connector)	Welded Hermetic	Welded Hermetic
Size - Height	.56 in	14.2 mm
Size - Length	.95 in	24.1 mm
Size - Width	.56 in	14.2 mm
Weight(without cable)	1.6 oz	45 gm
Mounting	Through Hole	Through Hole
Cable Length	10 ft	3.05 m
Cable Type	Integral Hardline Cable	Integral Hardline Cable
Cable Termination	7/16-27 2-Pin	7/16-27 2-Pin

OPTIONAL VERSIONS

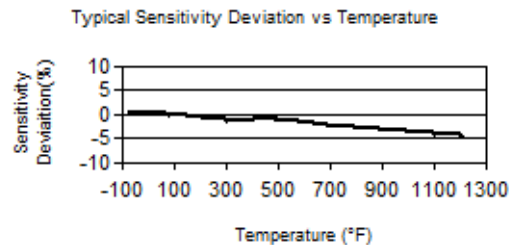
Optional versions have identical specifications and accessories as listed for the standard model except where noted below. More than one option may be used.

NOTES:

- [1] Typical.
- [2] Additional cable length will add approx. 50pF/ft.
- [3] See PCB Declaration of Conformance PS199 for details.
- [4] See Model's "Instructions For Use" (IFU) for North American Conformity and Certification Statements.

SUPPLIED ACCESSORIES:

- Model 081A116 Mounting Screw, 10-32 UNJF-3Ax 5/8", Inconel 718 (1)
- Model ACS-1 NIST traceable frequency response (10 Hz to upper 5% point). (1)



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.

Entered: LK	Engineer: GD	Sales: MC	Approved: BAM	Spec Number:
Date: 10/04/2019	Date: 10/04/2019	Date: 10/04/2019	Date: 10/04/2019	72268



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