Model Number 422E13	IN-LINE CHARGE CONVERTER Revision: T ECN #: 45760								vision: T N #: 45760
Performance Sensitivity(± 2 %)(Charge Conversion) Overrange Low Frequency Response(-5 %) High Frequency Response(2.2 mA) High Frequency Response(2.0 mA) Non-Linearity Environmental Temperature Response(Sensitivity Deviation) Maximum Shock Electrical Excitation Voltage Output Bias Voltage		ENGLISH 1 mV/pC ± 3 V 5 Hz 30 kHz 60 kHz 100 kHz ≤ 1.0 % FS -65 to +250 °F <1 % 1000 g pk 18 to 28 VDC 12.75 to 14.25 VDC	SI 1 mV/pC ± 3 V 5 Hz 30 kHz 60 kHz 100 kHz ≤ 1.0 % FS -54 to +121 °C <1 % 9810 m/s ² pk 18 to 28 VDC 12.75 to 14.25 VDC	[3] [3] [3]	DOPTIONAL 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. TLD - TEDS Capable of Digital Memory and Communication Compliant with IEEE 1451.4 Temperature Range(Operating) -40 to +185 °F Output Bias Voltage 13.35 to 14.85 VDC NOTES:				
Constant Current Excitation Output Impedance Output Polarity Maximum Input Voltage Broadband Electrical Noise(1 to 10,000 Hz) Spectral Noise(1 Hz) Spectral Noise(10 Hz) Spectral Noise(10 Hz) Spectral Noise(1 kHz) Spectral Noise(1 kHz) Discharge Time Constant Resistance(Minimum required at input) Source Canacitance Loading		± 2.5 Vpk 2.2 to 20 mA <20 Ohm Inverted 30 V 11 µV 10.0 µV/√Hz 0.7 µV/√Hz 0.1 µV/√Hz 0.04 µV/√Hz 0.04 µV/√Hz 0.1 sec 7,000,000 Ohm 0.0005 %/pF	± 2.5 Vpk 2.2 to 20 mA <20 Ohm Inverted 30 V -99 dB -100 dB -123 dB -140 dB -148 dB -148 dB 0.1 sec 7,000,000 Ohm 0.0005 %/pF	[1] [1] [1] [1] [1] [2]	 [1]Tested using voltage source and input capacitor equal to the feedback capacitor, to simulate a charge output sensor. [2]Not to be used with low values of source resistance such as charge mode sensors at elevated temperatures or contaminated sensor cables (preventing low frequency peaking and/or output bias problems). [3]Above stated frequency, the amplifier becomes slew rate limited. [4]See PCB Declaration of Conformance PS024 for details. 				
Physical Housing Material Sealing Electrical Connector(Input) Electrical Connector(Output) Size (Diameter x Length)		Stainless Steel Welded 10-32 Coaxial Jack BNC Jack 0.52 in x 3.4 in	Stainless Steel Welded 10-32 Coaxial Jack BNC Jack 13 mm x 86 mm						
Weight		1.15 oz	32.7 gm		Entered: LK	Engineer: CPH	Sales: ML	Approved: DY	Spec Number:
					Date: 8/10/2016	Date: 8/10/2016	Date: 8/10/2016	Date: 8/10/2016	422-5130-80
All specifications are at m In the interest of constant ICP [®] is a registered trade	PC5 3425 Walden Ave	PIEZOTA	RONICS **	Phone: 71 Fax: 716- E-Mail: in	6-684-0001 684-0987 fo@pcb.com				