Model Number <b>422E01</b>	IN-LINE CHARGE CONVERTER					
Performance Sensitivity(± 5 %)(Charg Overrange Low Frequency Respons High Frequency Respon High Frequency Respon Hon-Linearity Environmental Temperature Range(Opt Temperature Response( Maximum Shock	se(-5 %) se(2.2 mA) se(4 mA) se(20 mA)	ENGLISH  100 mV/pC  ± 3 V  0.5 Hz  60 kHz  90 kHz  100 kHz  ≤ 1.0 % FS  -65 to +212 °F  ≤ 2 %  1000 q pk	SI 100 mV/pC ± 3 V 0.5 Hz 60 kHz 90 kHz 100 kHz ≤ 1.0 % FS -54 to +100 °C ≤ 2 % 9810 m/s² pk	[3] [3] [3]	Optional versions have except <b>TLD</b> - TEDS Capable Temperature Range(Option of the content of t	
Electrical Excitation Voltage Output Bias Voltage	ise(1 to 10,000 Hz)	18 to 28 VDC  12.75 to 14.25 VDC  ± 2.5 Vpk  2.2 to 20 mA  <20 Ohm  Inverted  30 V  24 µV  19 µV√Hz  2.3 µV√Hz  0.5 µV/√Hz  0.1 µV/√Hz  1.0 sec  10¹² Ohm	18 to 28 VDC 12.75 to 14.25 VDC ± 2.5 Vpk 2.2 to 20 mA <20 Ohm Inverted 30 V -92 dB -94 dB -113 dB -126 dB -134 dB -140 dB 1.0 sec 10 <sup>12</sup> Ohm	[1] [1] [1] [1] [1]	NOTES: [1]Tested using voltage s charge output sensor. [2]Not to be used with low temperatures or contabias problems). [3]Above stated frequence [4]See PCB Declaration of the problems of the	
Source Capacitance Loa Physical Housing Material Sealing Electrical Connector(Inp Electrical Connector(Out Size (Diameter x Length	ut) tput)	0.005 %/pF  Stainless Steel Welded  10-32 Coaxial Jack BNC Jack 0.52 in x 3.4 in	0.005 %/pF  Stainless Steel Welded  10-32 Coaxial Jack BNC Jack 13 mm x 86 mm			

## **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.

TLD - TEDS Capable of Digital Memory and Communication Compliant with IEEE 1451.4 Temperature Range(Operating) -40 to +185 °F -40 to +85 °C Output Bias Voltage 13.35 to 14.85 VDC 13.35 to 14.85 VDC

## NOTES:

- [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.

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	422-5010-80



Phone: 716-684-0001 Fax: 716-684-0987 E-Mail: info@pcb.com

Revision: T

ECN #: 45760



Weight

NA - del NI - ede

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.

1.15 oz

32.7 gm

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