

Model Number 422E36		IN-LINE CHARGE CONVERTER			Revision: F ECN #: 45760	
Performance		ENGLISH	SI	OPTIONAL VERSIONS		
Sensitivity(± 2 %)(Charge Conversion)		10 mV/pC	10 mV/pC	Optional versions have identical specifications and accessories as listed for the standard model except where noted below. More than one option may be used.		
Input Range		± 250 pC	± 250 pC			
Low Frequency Response(-5 %)		5 Hz	5 Hz	[2]		
High Frequency Response(2.2 mA)		50 kHz	50 kHz	[3]		
High Frequency Response(4 mA)		75 kHz	75 kHz	[3]		
High Frequency Response(20 mA)		100 kHz	100 kHz	[3]		
Non-Linearity		≤ 1.0 % FS	≤ 1.0 % FS			
Environmental						
Temperature Range(Operating)		-65 to +250 °F	-54 to +121 °C			
Temperature Response(Sensitivity Deviation)		<2 %	<2 %			
Maximum Shock		1000 g pk	9810 m/s² pk			
Humidity Range		100 %	100 %			
Electrical						
Excitation Voltage		+18 to 28 VDC	+18 to 28 VDC			
Output Bias Voltage		+12.00 to 15.00 VDC	+12.00 to 15.00 VDC			
Output Voltage(at specified measurement range)		± 2.5 V	± 2.5 V			
Constant Current Excitation		2.2 to 20 mA	2.2 to 20 mA			
Output Impedance		<10 Ohm	<10 Ohm			
Settling Time		<6 min	<6 min			
Output Polarity		Inverted	Inverted			
Maximum Input Voltage		30 V	30 V			
Broadband Electrical Noise(1 to 10,000 Hz)		26.0 µV	-92 dB	[1]		
Spectral Noise(1 Hz)		13.0 µV/√Hz	-98 dB	[1]		
Spectral Noise(10 Hz)		2.20 µV/√Hz	-113 dB	[1]		
Spectral Noise(100 Hz)		0.50 µV/√Hz	-126 dB	[1]		
Spectral Noise(1 kHz)		0.19 µV/√Hz	-134 dB	[1]		
Spectral Noise(10 kHz)		0.10 µV/√Hz	-140 dB	[1]		
Capacitance(Maximum allowable at input)		2000 pF	2000 pF			
Resistance(Minimum required at input)		10,000 Ohm	10,000 Ohm			
Source Capacitance Loading		<0.0005 %/pF	<0.0005 %/pF			
Physical						
Housing Material		Stainless Steel	Stainless Steel			
Sealing		Welded	Welded			
Electrical Connector(Input)		10-32 Coaxial Jack	10-32 Coaxial Jack			
Electrical Connector(Output)		BNC Jack	BNC Jack			
Size (Diameter x Length)		0.52 in x 3.4 in	13 mm x 86 mm			
Weight		1.1 oz	31 gm			
						
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.						
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