

Model Number 422E35		IN-LINE CHARGE CONVERTER			Revision: F ECN #: 45760	
Performance		ENGLISH	SI	OPTIONAL VERSIONS		
Sensitivity(± 2 %)(Charge Conversion)		1 mV/pC	1 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		± 2500 pC	± 2500 pC			
Low Frequency Response(-5 %)		5 Hz	5 Hz	[2]		
High Frequency Response(2.2 mA)		30 kHz	30 kHz	[3]		
High Frequency Response(4 mA)		60 kHz	60 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)		14.0 µV	-97 dB	[1]		
Spectral Noise(1 Hz)		8.90 µV/√Hz	-101 dB	[1]		
Spectral Noise(10 Hz)		0.85 µV/√Hz	-121 dB	[1]		
Spectral Noise(100 Hz)		0.31 µV/√Hz	-130 dB	[1]		
Spectral Noise(1 kHz)		0.17 µV/√Hz	-135 dB	[1]		
Spectral Noise(10 kHz)		0.07 µV/√Hz	-143 dB	[1]		
Capacitance(Maximum allowable at input)		20,000 pF	20,000 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			
						
<i>All specifications are at room temperature unless otherwise specified.</i> <i>In the interest of constant product improvement, we reserve the right to change specifications without notice.</i> ICP® is a registered trademark of PCB Group, Inc.						
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