



m/s² **CC701HT**
Charge converter



SPECIFICATIONS

TRANSFER CHARACTERISTICS

Sensitivity, ±5%		4 mV/pC
Frequency response¹:	±1 dB	2.0 - 10,000 Hz
	-3 dB	1.0 - 20,000 Hz
Nonlinearity		<1%
Harmonic distortion		<1%

INPUT CHARACTERISTICS

Allowable source capacitance, max²		500 pF
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OUTPUT CHARACTERISTICS

Output voltage, max		5 V rms
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Electrical noise, nominal:

Source capacitance (transducer + cable)		1,000 pF
Broadband	2.5 Hz to 25 kHz	100 µV
Spectral	10 Hz	1.41 µV/√Hz
	100 Hz	0.71 µV/√Hz
	1,000 Hz	0.63 µV/√Hz
	10,000 Hz	0.51 µV/√Hz

Output impedance (depending on source capacitance)		25 - 150 Ω
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Bias output voltage		12 ± 2 VDC
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POWER REQUIREMENTS

Voltage source		18 - 30 VDC
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Constant current³		2 - 10 mA
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ENVIRONMENTAL

Temperature range		-40° to +100°C
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PHYSICAL

Weight		40 grams
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Case material		stainless steel
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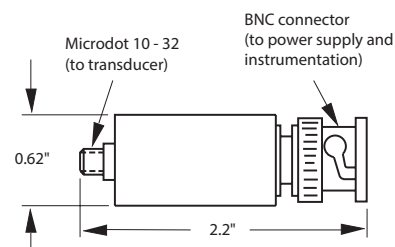
Connectors:

Signal input		Microdot 10-32
Signal output		BNC

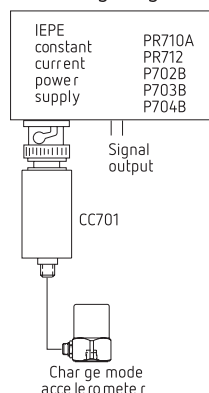
- Notes:** ¹ Measured with 500 pF input capacitance.
² For -3 dB point greater than 10 kHz/
³ To minimize the possibility of signal distortion when driving long cables with high vibration signals, 24 to 30 VDC powering is recommended. The higher level constant current source should be used when driving long cables.

Key features

- Designed for use with high temperature, charge mode accelerometers
- Immune to cable motion noise
- Manufactured in ISO 9001 facility



Powering diagram



Note: Due to continuous process improvement, specifications are subject to change without notice. This document is cleared for public release.

The information provided herein is to the best of our knowledge true and accurate, it is provided for guidance only. All specifications are subject to change without prior notification.

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