Charge converter

CC701A

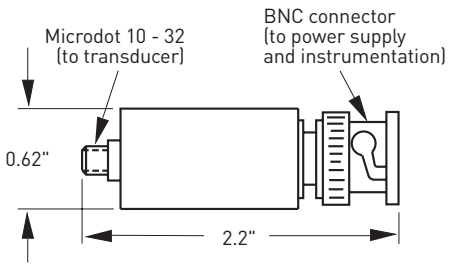
SPECIFICATIONS

TRANSFER CHARACTERISTICS[1]		
Sensitivity, ±5%		10 mV/pC
Frequency response:	**±5%**	10 - 25,000 Hz
	–3 dB	2.0 Hz
Nonlinearity		<1%
Harmonic distortion		<1%
INPUT CHARACTERISTICS		
Allowable source capacitance, max		6,000 pF
OUTPUT CHARACTERISTICS		
Output voltage, max		5 V rms
Electrical noise, nominal:		
Source capacitance (transducer + cable)		1,000 pF
Broadband	**2.5 Hz to 25 kHz**	30 µV
Spectral	**10 Hz**	4.0 µV/√Hz
	100 Hz	0.6 µV/√Hz
	1,000 Hz	0.2 µV/√Hz
	10,000 Hz	0.06 µV/√Hz
Output impedance (depending on source capacitance)		25 - 150 Ω
Bias output voltage, nominal		10 VDC
POWER REQUIREMENTS		
Voltage source		18 - 30 VDC
Constant current[2]		2 - 10 mA
ENVIRONMENTAL		
Temperature range		–40° to +100°C
PHYSICAL		
Weight		40 grams
Case material		stainless steel
Connectors:		
Signal input		Microdot 10-32
Signal output		BNC

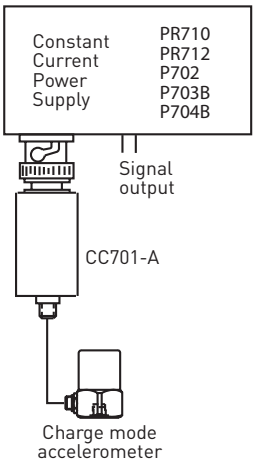
Notes: [1] Measured with 1,000 pF source capacitance, 21V supply, 4 mA.
[2] To minimize the possibility of signal distortion when driving long cables with high vibration signals, 24 to 30 VDC powering is recommended. The higher level constant current source should be used when driving long cables.

Key features

- Strong voltage signal
- 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.

Wilcoxon Sensing Technologies
An Amphenol Company
8435 Progress Drive
Frederick, MD 21701
USA
Tel: +1 (301) 330-8811
Fax: +1 (301) 330-8873
info@wilcoxon.com
buy.wilcoxon.com
www.wilcoxon.com

98324 Rev.D.1 09/18

Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

Amphenol:
CC701A