Charge converter

CC701

SPECIFICATIONS

TRANSFER CHARACTERISTI	ICS ¹				
Sensitivity, ±5%		1 mV/pC			
Frequency response:	±5% –3 dB	10 - 25,000 Hz 0.5 Hz			
Nonlinearity		<1%			
Harmonic distortion		<1%			
INPUT CHARACTERISTICS					
Allowable source capacitance, max		6,000 pF			
OUTPUT CHARACTERISTICS	5				
Output voltage, max		5 V rms			
Electrical noise, nominal: Source capacitance (tran Broadband 2.5 Ha Spectral	sducer + cable) z to 25 kHz 10 Hz 100 Hz 1,000 Hz 10,000 Hz	500 5 0.50 0.06 0.04 0.02	1,000 7 0.50 0.07 0.04 0.03	5,000 10 0.50 0.15 0.07 0.05	pF μV μV/√Hz μV/√Hz μV/√Hz 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 Signal output		Microdot 10-32 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.

Options: Filtered for high temperature charge mode with sensitivity of 4 mV/pC (model CC701HT); sensitivity of 10 mV/pC (model CC701A)

CE

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

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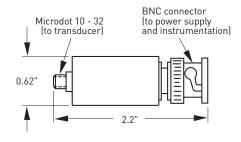


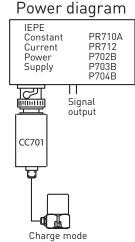
Key features

 Converts charge output from a vibration sensor to a strong voltage signal

Immune to cable motion noise

Manufactured in ISO 9001 facility





accelerometer

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