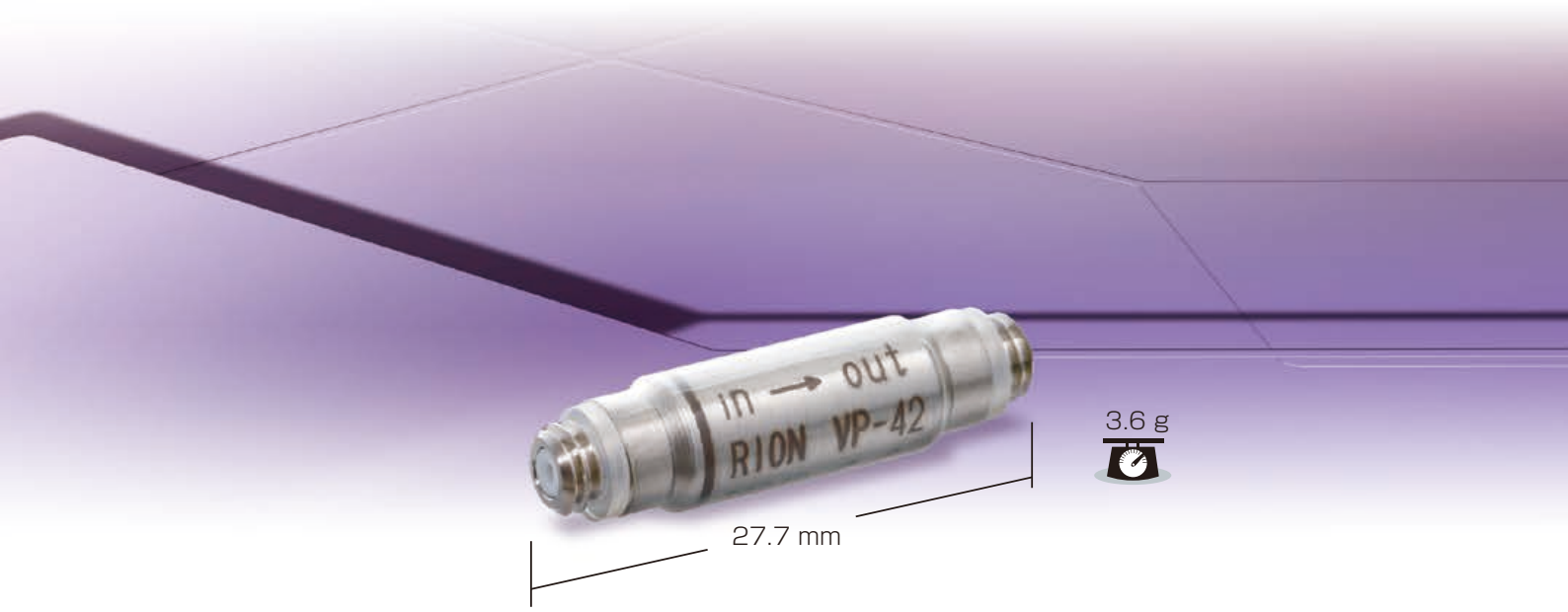
GREEN

Charge Converter
VP-42

Facilitates vibration measurement with charge output type accelerometer

Compact relay type charge amplifier with CCLD (Constant Current Linear Drive) support



Specifications

Input	Charge input
Input capacitance (Accelerometer capacitance + accelerometer cable capacitance)	Max. 5 000 pF
Gain	1 mV/pC ±2.5 % (80 Hz)
Frequency range	1 Hz to 30 000 Hz (±5 %)
Phase	Output phase inverted by 180 deg. vs. input
Max. output voltage (peak to peak)	10 V
Linearity	Gain ±0.5 %
Output impedance	50 ohms or less
Noise level (rms)	30 μV or less (input capacitance 1 000 pF, 1 Hz to 20 kHz)
Power supply	DC18 V to 30 V, constant current 2 mA to 4 mA

DC bias	9 V to 12 V DC
Connection	Input: Microdot connector (10-32UNF) Output: Microdot connector (10-32UNF)
Dimensions and mass	7 mm (φ) x 27.7 mm / approx. 3.6 g
Case material	Stainless steel
Temperature and humidity range for operation	-10 to +50°C, max. 90 % RH
Temperature and humidity range for storage	-10 to +50°C, max. 90 % RH
Extension cable	Input: Standard low-noise cable VP-51A, max. 30 m Input capacitance (accelerometer capacitance + accelerometer cable capacitance) may not exceed 5 000 pF Output: Standard low-noise cable VP-51A, max. 100 m

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* Specifications subject to change without notice.

深圳市米乐仪器有限公司
Tel:0755-28125115
Fax:0755-28125225
联系人:李桂乐
http://www.i1718.com.cn
E-mail:361904153@qq.com

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