

| | <u>ENGLISH</u> | <u>SI</u> | |
|--|--------------------|--------------------------|-----|
| Performance | | | |
| Sensitivity(± 2 %)(Charge Conversion) | 10 mV/pC | 10 mV/pC | |
| Overrange | ± 3 V | ± 3 V | |
| Low Frequency Response(-5 %) | 5 Hz | 5 Hz | |
| High Frequency Response(2.2 mA) | 50 kHz | 50 kHz | [3] |
| High Frequency Response(4 mA) | 75 kHz | 75 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) | <1 % | <1 % | |
| Maximum Shock | 1000 g pk | 9810 m/s ² pk | |
| Electrical | | | |
| Excitation Voltage | 18 to 28 VDC | 18 to 28 VDC | |
| Output Bias Voltage | 12.75 to 14.25 VDC | 12.75 to 14.25 VDC | |
| Output Voltage(at specified measurement range) | ± 2.5 Vpk | ± 2.5 Vpk | |
| Constant Current Excitation | 2.2 to 20 mA | 2.2 to 20 mA | |
| Output Impedance | <20 Ohm | <20 Ohm | |
| Output Polarity | Inverted | Inverted | |
| Maximum Input Voltage | 30 V | 30 V | |
| Broadband Electrical Noise(1 to 10,000 Hz) | 20 µV | -94 dB | [1] |
| Spectral Noise(1 Hz) | 17.0 µV/√Hz | -95 dB | [1] |
| Spectral Noise(10 Hz) | 1.8 µV/√Hz | -115 dB | [1] |
| Spectral Noise(100 Hz) | 0.2 µV/√Hz | -134 dB | [1] |
| Spectral Noise(1 kHz) | 0.07 µV/√Hz | -143 dB | [1] |
| Spectral Noise(10 kHz) | 0.06 µV/√Hz | -144 dB | [1] |
| Discharge Time Constant | 0.1 sec | 0.1 sec | |
| Resistance(Minimum required at input) | 7,000,000 Ohm | 7,000,000 Ohm | [2] |
| 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 | 1.15 oz | 32.7 gm | |

OPTIONAL VERSIONS

Optional versions have identical specifications and accessories as listed for the standard model except where noted below. More than one option may be used.

TLD - TEDS Capable of Digital Memory and Communication Compliant with IEEE 1451.4

| | | |
|------------------------------|--------------------|--------------------|
| Temperature Range(Operating) | -40 to +185 °F | -40 to +85 °C |
| Output Bias Voltage | 13.35 to 14.85 VDC | 13.35 to 14.85 VDC |

NOTES:

[1] Tested using voltage source and input capacitor equal to the feedback capacitor, to simulate a charge output sensor.

[2] Not to be used with low values of source resistance such as charge mode sensors at elevated temperatures or contaminated sensor cables (preventing low frequency peaking and/or output bias problems).

[3] Above stated frequency, the amplifier becomes slew rate limited.

[4] See PCB Declaration of Conformance PS024 for details.

| | | | |
|--|--|--|--|
| | | | |
|--|--|--|--|

| | | | | |
|-----------------|-----------------|-----------------|-----------------|--------------|
| Entered: LK | Engineer: CPH | Sales: ML | Approved: DY | Spec Number: |
| Date: 8/10/2016 | Date: 8/10/2016 | Date: 8/10/2016 | Date: 8/10/2016 | 422-5120-80 |



All specifications are at room temperature unless otherwise specified.
 In the interest of constant product improvement, we reserve the right to change specifications without notice.
 ICP® is a registered trademark of PCB Group, Inc.



Phone: 716-684-0001
 Fax: 716-684-0987
 E-Mail: info@pcb.com