

MODEL NUMBER 3055C PERFORMANCE SPECIFICATION PS3055C Accelerometer, Charge Mode REV C, ECN 13000, 10/14/16

ON TOWN

• HERMETICALLY SEALED

• HIGH CHARGE OUTPUT

ENCLICI

- ROBUST DESIGN
- BASE ISOLATED

| ENC | | ENGLI | SH | SI | |
|------------------------------------|----------|-------------|---------|-------------|---------------------|
| PHYSICAL | · | | | | |
| Weight | | 0.35 | oz | 10.0 | grams |
| Connector [1] | Туре | Coaxial | | Coaxial | |
| | Material | Titanium | | Titanium | |
| Housing | Material | Titanium | | Titanium | |
| Sensing Element | Material | Ceramic | | Ceramic | |
| | Mode | Shear | | Shear | |
| PERFORMANCE | | | | | |
| Sensitivity, ± 15% [2] | | 15 | pC/g | 1.53 | pC/m/s ² |
| Acceleration Range [3] | | [3] | Gpeak | [3] | m/s² peak |
| Frequency Range, ±5% | | [5] 5000 | Hz | [5] 5000 | Hz |
| Resonance Frequency | | 32 | kHz | 32 | kHz |
| Linearity [4] | | ±1 | % | ±1 | % |
| Transverse Sensitivity Max | | 5 | % | 5 | % |
| ENVIRONMENTAL | | | | | |
| Shock Max | | 3000 | g pk | 29430 | m/s ² |
| Vibration Max | | 600 | g pk | 5886 | m/s ² |
| Operating Temperature | | -60 to +375 | °F | -51 to +190 | °C |
| Seal | | Hermetic | | Hermetic | |
| Coefficient of Thermal Sensitivity | | 0.06 | %/°F | 0.11 | %/°C |
| ELECTRICAL | | | | | |
| Capacitance, nom | | 975 | pF | 975 | pF |
| Electrical Isolation | | 10 | GΩ, min | 10 | GΩ, min |
| | | | | | |

| This family also includes: | | | | | | | | |
|----------------------------|--------------------|---------------|-------------------|----------------|--|--|--|--|
| Model | Sensitivity (pC/g) | Range (Gpeak) | Resolution (Grms) | Oper. Temp(°F) | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |

Please, refer to the performance specifications of the products in this family for detailed description

Supplied Accessories:

- 1) Model 6200 Mounting Stud
- 2) Accredited Calibration Certificate (ISO 17025)

Notes

- [1] Mates with Dytran cable Model 6013AXX or 6019AXX (XX= Length in feet).
- [2] Measured At 100 Hz, 1 Grms per ISA RP 37.2
- [3] Depends On the Gain Setting Of The Charge Amplifier Used
- [4] Measured using zero-based best straight line method, % of F.S. or any lesser calibrated range.
- [5] Low Frequency Response Is the Function Of the Discharge Time Constant Of The Charge Amplifier Used. Please, Refer To The Plot Below For Frequency Response For Different

Time Constants





