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- NOTES: UNLESS OTHERWISE SPECIFIED

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| Model Number 3099A6-XX | | PERFORMANCE SPECIFICATION | | | | DOC NO PS3099A6-XX | |
|---|--|--|-------|--------------------|----------------------|----------------------------|--|
| | | SHOCK ACCELEROMETER, IEPE | | | | REV B, ECN 16173, 05/03/21 | |
|  | | <ul style="list-style-type: none">• MECHANICALLY & ELECTRICALLY FILTERED• INTEGRAL CABLE W/ 10-32 CONNECTOR• CASE ISOLATED | | | | | |
| | | ENGLISH | | SI | | | |
| PHYSICAL | | | | | | | |
| Weight, Max. (Less Cable) | | 0.28 | oz | 8 | grams | | |
| Mounting Provision | | 1/4-28 UNF-2A | | 1/4-28 UNF-2A | | | |
| Integral Cable | | Twisted Pair, PTFE | | Twisted Pair, PTFE | | | |
| Connector | | Coaxial 10-32 Plug | | Coaxial 10-32 Plug | | | |
| Material | | Titanium | | Titanium | | | |
| Element Style | | Quartz | | Quartz | | | |
| | | Planar Shear | | Planar Shear | | | |
| | | | | | | | |
| PERFORMANCE | | | | | | | |
| Sensitivity, ±20% [2] | | 0.1 | mV/g | 0.010 | mV/m/s ² | | |
| Measurement Range | | ±50,000 | g pk | ±490,500 | m/s ² pk | | |
| Frequency Range, ±3dB | | 10 to 10,000 | Hz | 10 to 10,000 | Hz | | |
| Resonant Frequency | | > 10.5 | kHz | > 10.5 | kHz | | |
| | | > 120 | kHz | > 120 | kHz | | |
| Linearity [3] | | ± 1 | % | ± 1 | % | | |
| Broadband Resolution | | 0.70 | g RMS | 6.87 | m/s ² RMS | | |
| Maximum Transverse Sensitivity | | 5 | % | 5 | % | | |
| Strain Sensitivity | | 0.0005 | g/μϵ | 0.0049 | m/s ² /μϵ | | |
| | | | | | | | |
| ELECTRICAL | | | | | | | |
| Supply Current Range [4] | | 2 to 20 | mA | 2 to 20 | mA | | |
| Compliance Voltage Range | | +18 to +30 | VDC | +18 to +30 | VDC | | |
| Output Impedance, Typ. | | 100 | Ω | 100 | Ω | | |
| Output Bias Voltage | | 7.0 to 12.0 | VDC | 7.0 to 9.0 | VDC | | |
| Discharge Time Constant | | 1.0 to 2.0 | sec | 1.0 to 2.0 | sec | | |
| Warm up time (within 10% of Bias) | | < 8 | sec | < 8 | sec | | |
| Electrical Filter | | Two Pole | | Two Pole | | | |
| | | 7 | kHz | 7 | kHz | | |
| Ground Isolation | | >10 | MΩ | >10 | MΩ | | |
| | | | | | | | |
| ENVIRONMENTAL | | | | | | | |
| Maximum Shock | | ±100,000 | g pk | ±981,000 | m/s ² pk | | |
| Temperature Range, Sensor | | -10 to +250 | °F | -12 to +121 | °C | | |
| Temperature Range, Integral Cable | | -76 to +392 | °F | -60 to +200 | °C | | |
| Coefficient of Thermal Sens. | | 0.03 | %F | 0.05 | %C | | |
| Seal | | Hermetic | | Hermetic | | | |
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