

**DATE: 2025-12-02**

## REF TEK 147A-01/3/INT/SM2 Accelerometer

**S/N: R3935**

**P/N: R-97499-CM**

**DAS: 34145**

### NORMALIZED MAGNITUDE - FREQUENCY CHARACTERISTICS

| Freq. (Hz) | Z-Axis<br>(Vertical) | Y-Axis<br>(North/South) | X-Axis<br>(East/West) |
|------------|----------------------|-------------------------|-----------------------|
| 1.00       | 1.0002               | 1.0004                  | 1.0003                |
| 10.00      | 1.0000               | 1.0000                  | 1.0000                |
| 20.00      | 0.9994               | 0.9990                  | 0.9992                |
| 30.00      | 0.9985               | 0.9975                  | 0.9979                |
| 40.00      | 0.9975               | 0.9958                  | 0.9966                |
| 50.00      | 0.9967               | 0.9943                  | 0.9953                |
| 60.00      | 0.9962               | 0.9932                  | 0.9945                |
| 70.00      | 0.9964               | 0.9931                  | 0.9945                |
| 80.00      | 0.9977               | 0.9943                  | 0.9957                |
| 90.00      | 1.0003               | 0.9972                  | 0.9984                |
| 100.00     | 1.0047               | 1.0020                  | 1.0028                |
| 120.00     | 1.0209               | 1.0191                  | 1.0191                |
| 140.00     | 1.0495               | 1.0471                  | 1.0480                |
| 160.00     | 1.0839               | 1.0768                  | 1.0839                |

### SENSITIVITIES

|                           | Z-Axis<br>(Vertical) | Y-Axis<br>(North/South) | X-Axis<br>(East/West) |
|---------------------------|----------------------|-------------------------|-----------------------|
| Output Sensitivity (V/g)  | 1.251                | 1.250                   | 1.251                 |
| Cross-axis Coupling (g/g) | 0.28%                | 0.20%                   | 0.12%                 |

\* g = 9.80 m/s<sup>2</sup>

Rev K (2024-01)