

**DATE: 2025-12-01**

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

**S/N: R3939**

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

**DAS: 34149**

### NORMALIZED MAGNITUDE - FREQUENCY CHARACTERISTICS

| Freq. (Hz) | Z-Axis<br>(Vertical) | Y-Axis<br>(North/South) | X-Axis<br>(East/West) |
|------------|----------------------|-------------------------|-----------------------|
| 1.00       | 1.0003               | 1.0003                  | 1.0004                |
| 10.00      | 1.0000               | 1.0000                  | 1.0000                |
| 20.00      | 0.9993               | 0.9992                  | 0.9990                |
| 30.00      | 0.9982               | 0.9980                  | 0.9976                |
| 40.00      | 0.9971               | 0.9966                  | 0.9961                |
| 50.00      | 0.9961               | 0.9953                  | 0.9949                |
| 60.00      | 0.9955               | 0.9946                  | 0.9943                |
| 70.00      | 0.9958               | 0.9946                  | 0.9947                |
| 80.00      | 0.9973               | 0.9960                  | 0.9964                |
| 90.00      | 1.0003               | 0.9989                  | 0.9996                |
| 100.00     | 1.0052               | 1.0037                  | 1.0045                |
| 120.00     | 1.0223               | 1.0206                  | 1.0206                |
| 140.00     | 1.0512               | 1.0490                  | 1.0454                |
| 160.00     | 1.0842               | 1.0807                  | 1.0689                |

### SENSITIVITIES

|                           | Z-Axis<br>(Vertical) | Y-Axis<br>(North/South) | X-Axis<br>(East/West) |
|---------------------------|----------------------|-------------------------|-----------------------|
| Output Sensitivity (V/g)  | 1.251                | 1.250                   | 1.250                 |
| Cross-axis Coupling (g/g) | 0.28%                | 0.04%                   | 0.08%                 |

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

Rev K (2024-01)