

**DATE: 2023-04-05**

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

**S/N: R3765**

**P/N: R-180-S002**

### NORMALIZED MAGNITUDE - FREQUENCY CHARACTERISTICS

| Freq. (Hz) | Z-Axis<br>(Vertical) | Y-Axis<br>(North/South) | X-Axis<br>(East/West) |
|------------|----------------------|-------------------------|-----------------------|
| 1.00       | 1.0002               | 1.0003                  | 1.0000                |
| 10.00      | 1.0000               | 1.0000                  | 1.0000                |
| 20.00      | 0.9994               | 0.9991                  | 0.9999                |
| 30.00      | 0.9986               | 0.9976                  | 0.9997                |
| 40.00      | 0.9975               | 0.9958                  | 0.9995                |
| 50.00      | 0.9965               | 0.9939                  | 0.9991                |
| 60.00      | 0.9956               | 0.9921                  | 0.9988                |
| 70.00      | 0.9951               | 0.9909                  | 0.9986                |
| 80.00      | 0.9953               | 0.9903                  | 0.9988                |
| 90.00      | 0.9965               | 0.9910                  | 0.9997                |
| 100.00     | 0.9990               | 0.9931                  | 1.0016                |
| 120.00     | 1.0096               | 1.0032                  | 1.0105                |
| 140.00     | 1.0299               | 1.0228                  | 1.0291                |
| 160.00     | 1.0549               | 1.0453                  | 1.0522                |

### SENSITIVITIES

|                                  | Z-Axis<br>(Vertical) | Y-Axis<br>(North/South) | X-Axis<br>(East/West) |
|----------------------------------|----------------------|-------------------------|-----------------------|
| <b>Output Sensitivity (V/g)</b>  | 1.250                | 1.250                   | 1.250                 |
| <b>Cross-axis Coupling (g/g)</b> | 0.44%                | 0.80%                   | 0.20%                 |

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

Rev J (2022-05)