

**DATE: 2024-09-18**

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

**S/N: R3851**

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

**DAS: 34091**

### NORMALIZED MAGNITUDE - FREQUENCY CHARACTERISTICS

| Freq. (Hz) | Z-Axis<br>(Vertical) | Y-Axis<br>(North/South) | X-Axis<br>(East/West) |
|------------|----------------------|-------------------------|-----------------------|
| 1.00       | 1.0003               | 1.0004                  | 1.0003                |
| 10.00      | 1.0000               | 1.0000                  | 1.0000                |
| 20.00      | 0.9991               | 0.9990                  | 0.9991                |
| 30.00      | 0.9977               | 0.9975                  | 0.9978                |
| 40.00      | 0.9962               | 0.9959                  | 0.9965                |
| 50.00      | 0.9949               | 0.9947                  | 0.9957                |
| 60.00      | 0.9941               | 0.9942                  | 0.9957                |
| 70.00      | 0.9943               | 0.9949                  | 0.9969                |
| 80.00      | 0.9958               | 0.9973                  | 0.9997                |
| 90.00      | 0.9989               | 1.0015                  | 1.0040                |
| 100.00     | 1.0039               | 1.0079                  | 1.0091                |
| 120.00     | 1.0209               | 1.0283                  | 1.0287                |
| 140.00     | 1.0481               | 1.0586                  | 1.0560                |
| 160.00     | 1.0767               | 1.0877                  | 1.0834                |

### SENSITIVITIES

|                           | Z-Axis<br>(Vertical) | Y-Axis<br>(North/South) | X-Axis<br>(East/West) |
|---------------------------|----------------------|-------------------------|-----------------------|
| Output Sensitivity (V/g)  | 1.251                | 1.251                   | 1.251                 |
| Cross-axis Coupling (g/g) | 0.92%                | 0.40%                   | 0.04%                 |

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

Rev K (2024-01)