

**DATE: 2024-09-12**

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

**S/N: R3838**

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

**DAS: 34084**

### NORMALIZED MAGNITUDE - FREQUENCY CHARACTERISTICS

| Freq. (Hz) | Z-Axis<br>(Vertical) | Y-Axis<br>(North/South) | X-Axis<br>(East/West) |
|------------|----------------------|-------------------------|-----------------------|
| 1.00       | 1.0004               | 1.0008                  | 1.0002                |
| 10.00      | 1.0000               | 1.0000                  | 1.0000                |
| 20.00      | 0.9990               | 0.9991                  | 0.9993                |
| 30.00      | 0.9975               | 0.9983                  | 0.9983                |
| 40.00      | 0.9959               | 0.9975                  | 0.9973                |
| 50.00      | 0.9946               | 0.9969                  | 0.9965                |
| 60.00      | 0.9940               | 0.9968                  | 0.9962                |
| 70.00      | 0.9945               | 0.9974                  | 0.9997                |
| 80.00      | 0.9967               | 0.9993                  | 0.9988                |
| 90.00      | 1.0007               | 1.0025                  | 1.0023                |
| 100.00     | 1.0070               | 1.0074                  | 1.0076                |
| 120.00     | 1.0272               | 1.0242                  | 1.0252                |
| 140.00     | 1.0573               | 1.0514                  | 1.0539                |
| 160.00     | 1.0853               | 1.0805                  | 1.0862                |

### SENSITIVITIES

|                           | Z-Axis<br>(Vertical) | Y-Axis<br>(North/South) | X-Axis<br>(East/West) |
|---------------------------|----------------------|-------------------------|-----------------------|
| Output Sensitivity (V/g)  | 1.250                | 1.250                   | 1.250                 |
| Cross-axis Coupling (g/g) | 0.04%                | 0.56%                   | 0.40%                 |

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

Rev K (2024-01)