

## ER-QA-01A Aerospace Quartz Accelerometer

### Application

ER-QA-01A Aerospace Quartz Accelerometer be used in carrier's microgravity measuring system, inertial navigation system, static angle measurement system, with high precision.

### Feature

High Precision

High Performance

### Specifications

No.	Parameter	ER-QA-01A3	ER-QA-01A2	ER-QA-01A1	Unit
0	Threshold/Resolution	5	5	5	$\mu\text{g}$
1	Bias	$\leq 1$	$\leq 3$	$\leq 3$	mg
2	Scale Factor	1.1~1.5	1.1~1.5	1.1~1.5	mA/g
3	Second-order Non-linearity	$\leq 10$	$\leq 10$	$\leq 15$	$\mu\text{g/g}^2$
4	Bias Temp Coefficient	$\leq 10$	$\leq 20$	$\leq 30$	$\mu\text{g}/^\circ\text{C}$
5	Scale Factor Temp Coefficient	$\leq 10$	$\leq 20$	$\leq 30$	ppm/ $^\circ\text{C}$
6	Bias Repeatability	$\leq 10$	$\leq 20$	$\leq 30$	$\mu\text{g}$
7	Scale Factor Repeatability	$\leq 10$	$\leq 20$	$\leq 30$	ppm
8	Second-order Non-linearity Repeatability	$\leq 10$	$\leq 10$	$\leq 10$	$\mu\text{g/g}^2$
9	Natural Frequency	$\leq 800$	$\leq 800$	$\leq 800$	Hz
10	Acceleration Range	$\geq 20$	$\geq 20$	$\geq 20$	g
11	Vibration	8	8	8	grms
12	Shock	120g, 4.5ms, 1/2sin			

13	Operating Temp	-45~+80	-45~+80	-45~+80	°C
14	Weight	≤80	≤80	≤80	g
15	Resolution	≤5×10 <sup>-6</sup>	≤5×10 <sup>-6</sup>	≤5×10 <sup>-6</sup>	g
16	Operating Voltage	±12~±15	±12~±15	±12~±15	v

## Dimension

