

## ER-QA-01B High Accuracy Quartz Accelerometer for Aerospace

### Application

ER-QA-01B High-Accuracy Quartz Accelerometer for aerospace is specially used in inertial navigation system which has wide application in aerospace vehicles, inertial navigation system and control system of ships.

### Specifications

No.	Parameter	ER-QA-01B2	ER-QA-01B1	Unit
0	Threshold/Resolution	5	5	$\mu\text{g}$
1	Bias	$\leq 3$	$\leq 3$	mg
2	Scale Factor	1.1~1.5	1.1~1.5	mA/g
3	Second-order Non-linearity	$\leq 20$	$\leq 30$	$\mu\text{g/g}^2$
4	Bias Temp Coefficient	$\leq 30$	$\leq 40$	$\mu\text{g}/^\circ\text{C}$
5	Scale Factor Temp Coefficient	$\leq 50$	$\leq 60$	ppm/ $^\circ\text{C}$
6	Bias month Repeatability	$\leq 30$	$\leq 30$	$\mu\text{g}$
7	Scale Factor Repeatability	$\leq 30$	$\leq 30$	ppm
8	Second-order Non-linearity Repeatability	$\leq 10$	$\leq 10$	$\mu\text{g/g}^2$
9	Natural Frequency	$\leq 800$	$\leq 800$	Hz
10	Acceleration Range	$\geq 20$	$\geq 20$	g
11	Vibration	8	8	grms
12	Shock	120g, 4.5ms, 1/2sin		
13	Operating Temp	-45~+80	-45~+80	$^\circ\text{C}$
14	Weight	$\leq 80$	$\leq 80$	g
15	Resolution	$\leq 5 \times 10^{-6}$	$\leq 5 \times 10^{-6}$	g

16	Operating Voltage	$\pm 12 \sim \pm 15$	$\pm 12 \sim \pm 15$	v
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### Dimension

