

## ER-QA-01C Low Cost Quartz Accelerometer For Aerospace

### Application

ER-QA-01C Low Cost Quartz Accelerometer can be widely 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-01C2	ER-QA-01C1	Unit
0	Threshold /Resolution	5	5	μg
1	Bias	≤4	≤4	mg
2	Scale Factor	1.1~1.5	1.1~1.5	mA/g
3	Second-order Non-linearity	≤30	≤50	μg/g <sup>2</sup>
4	Bias Temp Coefficient	≤40	≤50	ug/°C
5	Scale Factor Temp Coefficient	≤60	≤80	ppm/°C
6	Bias month Repeatability	≤40	≤40	μg
7	Scale Factor Repeatability	≤40	≤40	ppm
8	Second-order Non-linearity Repeatability	≤20	≤20	μg/g <sup>2</sup>
9	Natural Frequency	≤800	≤800	Hz
10	Acceleration Range	≥20	≥20	g
11	Vibration	8	8	grms
12	Shock	120g, 4.5ms, 1/2sin		
13	Operating Temp	-45~+80	-45~+80	°C
14	Weight	≤80	≤80	g
15	Resolution	≤5×10 <sup>-6</sup>	≤5×10 <sup>-6</sup>	g
16	Operating Voltage	±12~±15	±12~±15	v

Dimension

