

ER-QA-03A High Performance Quartz Accelerometer For Aerospace

Introduction

ER-QA-03A High Performance Quartz Accelerometer with high reliability, is mainly used in the inertial measurement and test system in the aerospace, aviation fields. It can carry out static test and dynamic test, which is a standard vibration sensor.

Specifications

No	Parameters	ER-QA-03A1	ER-QA-03A2	ER-QA-03A3	Unit
1	Range	±50	±50	±50	g
2	Threshold /Resolution	5	5	5	μg
3	Bias	≤(±3)	≤(±5)	≤(±7)	mg
4	Scale factor	1.3±0.2	1.3±0.2	1.3±0.2	mA/g
5	Class II non-linearity	≤(±20)	≤(±30)	≤(±30)	μg/g ²
6	Bias repeatability	≤10	≤30	≤50	μg
7	Factor scale repeatability	≤15	≤30	≤50	ppm
8	Class II non-linearity repeatability	≤(±10)	≤(±20)	≤(±30)	μg/g ²
9	Bias temp coefficient	≤(±10)	≤(±30)	≤(±50)	μg/°C
10	Scale factor temp coefficient	≤(±20)	≤(±30)	≤(±50)	ppm /°C
11	Noise	≤5	≤8.4	≤8.4	mv
12	Natural Frequency	400~800	400~800	400~800	Hz
13	Bandwidth	800~2500	800~2500	800~2500	Hz
14	Vibration	6g (20-2000Hz)			
15	Shock	100g, 5ms, 1/2sin			
16	Operating temperature	-40~85	-40~85	-40~85	°C
17	Temperature range	-60~120	-60~120	-60~120	°C

18	Power Voltage	$\pm 12 \sim \pm 15$	$\pm 12 \sim \pm 15$	$\pm 12 \sim \pm 15$	V
19	Current	$\leq (\pm 20)$	$\leq (\pm 20)$	$\leq (\pm 20)$	mA
20	Temp. sensor	Yes and No two type			
21	Size	$\Phi 25.4 \times 30$	$\Phi 25.4 \times 30$	$\Phi 25.4 \times 30$	mm
22	Weight	≤ 80	≤ 80	≤ 80	g

Install dimension

