ER-QA-03F Small Size And High Temperature Quartz Accelerometer

Introduction

ER-QA-03F is a small size accelerometer which is mainly used for oil well logging. The output current is linear with the force. The operator can select a reasonable sampling resistor according to the calculation to achieve the highest precision output. The product can also be used for static testing and dynamic testing, which is a standard vibration sensor.

Features

- 1. Excellent start repeatability
- 2. Good environmental performance
- 3. Analog output
- 4. Adjustable output range
- 5. Small dimensions

Specification

No	Parameters	ER-QA-03F1	ER-QA-03F2
1	Range	±30g	±30g
2	Threshold	30µg	30µg
3	Bias k0/k1	≤(±20mg)	≤(±20mg)
4	Scale factor k1	1.8~2.4mA/g	1.8~2.4mA/g
5	Second-order non-linearity k2/k1	≤±20µg/g2	≤±50µg/g2
6	Bias composite repeatability σ K0 (1σ, one month)	≤150 µg	≤220 µg
7	Scale factor repeatability σ K1/k1 (1σ,one month)	≤150ppm	≤220ppm

8	Non-linearity coefficient composite repeatability K2/K1(1ơ,one month)	≤±40µg/g2	≤±50µg/g2
9	Bias Temp coefficient	≤±80μg/° C	≤±150μg/° C
10	Scale factor Temp coefficient	≤±100 ppm/ ℃	≤±200 ppm/ °C
11	Noise	≤8mv	≤8.4mv
12	Natural frequency	350~800Hz	350~800Hz
13	Bandwidth	800~2500Hz	800~2500Hz
14	Vibration	25g (20-2000Hz)	25g (20-2000Hz)
15	Shock	1000g, 0.5ms, 1/2sin	1000g, 0.5ms, 1/2sin
16	Operating Temp range	-40~+150° ℃	-40~+180 ℃
17	Storage Temp range	-60~+180° ℃	-60~+200℃
18	Power	±12~±15	±12~±15
19	Current consumption	≤±20mA	≤±20mA
20	Size	Ф18.2×16mm	Ф18.2×16mm
21	Weight	≤25g	≤25g

Install dimension



