



QUARTZ FLEXIBLE ACCELEROMETERS



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AC1-A/B/C TACTICAL GRADE

Single Axis Quartz Flexible Accelerometer

Range.....	±50g
Threshold/Resolution.....	1~3μg
Bias K_0/K_1	±1~±5mg
Scale Factor K_1	1.05~1.3mA/g
Class II Nonlinearity Coefficient K_2/K_1	±10~±20μg/g ²
Bias Drift Sigma K_0 (1σ, one month).....	10~30μg
Repeatability of Scale Factor Sigma $\sigma K_1/K_1$ (1σ, one month).....	15~50ppm
Class II nonlinearity Coefficient repeatability $\sigma K_2/K_1$ (1σ, one month).....	±10~±30μg/g ²
Bias Thermal Coefficient.....	±10~±50μg/°C
Scale Factor Thermal Coefficient.....	±10~±50ppm/°C
Size.....	Φ25.4*30mm
Weight.....	.80g

AC2-A/B/C

TACTICAL GRADE

Single Axis Quartz Flexible Accelerometer



Range.....	±70g
Threshold/Resolution.....	2~4μg
Bias K_0/K_1	±3~±5mg
Scale Factor K_1	0.8~1.2mA/g
Class II Nonlinearity Coefficient K_2/K_1	±10~±20μg/g ²
Bias Drift Sigma K_0 (1σ, one month).....	10~30μg
Repeatability of Scale Factor Sigma $\sigma K_1/K_1$ (1σ, one month).....	15~50ppm
Class II nonlinearity Coefficient repeatability $\sigma K_2/K_1$ (1σ, one month).....	±10~±30μg/g ²
Bias Thermal Coefficient.....	±10~±50μg/°C
Scale Factor Thermal Coefficient.....	±20~±50ppm/°C
Size.....	Φ25.4*30mm
Weight.....	80g





AC3-A/B/C TACTICAL GRADE

Single Axis Quartz Flexible Accelerometer

Range.....	±60g
Threshold/Resolution.....	5μg
Bias K_0/K_1	±5mg
Scale Factor K_1	0.4~1.2mA/g
Class II Nonlinearity Coefficient K_2/K_1	±10~±20μg/g ²
Bias Drift Sigma K_0 (1σ, one month).....	15~50μg
Repeatability of Scale Factor Sigma $\sigma K_1/K_1$ (1σ, one month).....	15~50ppm
Class II nonlinearity Coefficient repeatability $\sigma K_2/K_1$ (1σ, one month).....	±20~±30μg/g ²
Bias Thermal Coefficient.....	±15~±50μg/°C
Scale Factor Thermal Coefficient.....	±15~±80ppm/°C
Size.....	Φ18.2*23mm
Weight.....	30g

AC5-A/B/C

TACTICAL GRADE

Single Axis Fiber Optic Gyroscope



Range.....	±50g
Threshold/Resolution.....	5μg
Bias K_0/K_1	5~10mg
Scale Factor K_1	1.1~1.3mA/g
Class II Nonlinearity Coefficient K_2/K_1	±20μg/g ²
Bias Drift Sigma K_0 (1σ , one month).....	30~80μg
Repeatability of Scale Factor Sigma $\sigma K_1/K_1$ (1σ , one month).....	50~100ppm
Class II nonlinearity Coefficient repeatability $\sigma K_2/K_1$ (1σ , one month).....	±20μg/g ²
Bias Thermal Coefficient.....	±20~±40μg/°C
Scale Factor Thermal Coefficient.....	40~80ppm/°C
Size.....	Φ25*25/Φ25.3*23/Φ25*24mm
Weight.....	55g





AC6-A/B/C INDUSTRIAL GRADE

Single Axis Quartz Flexible Accelerometer



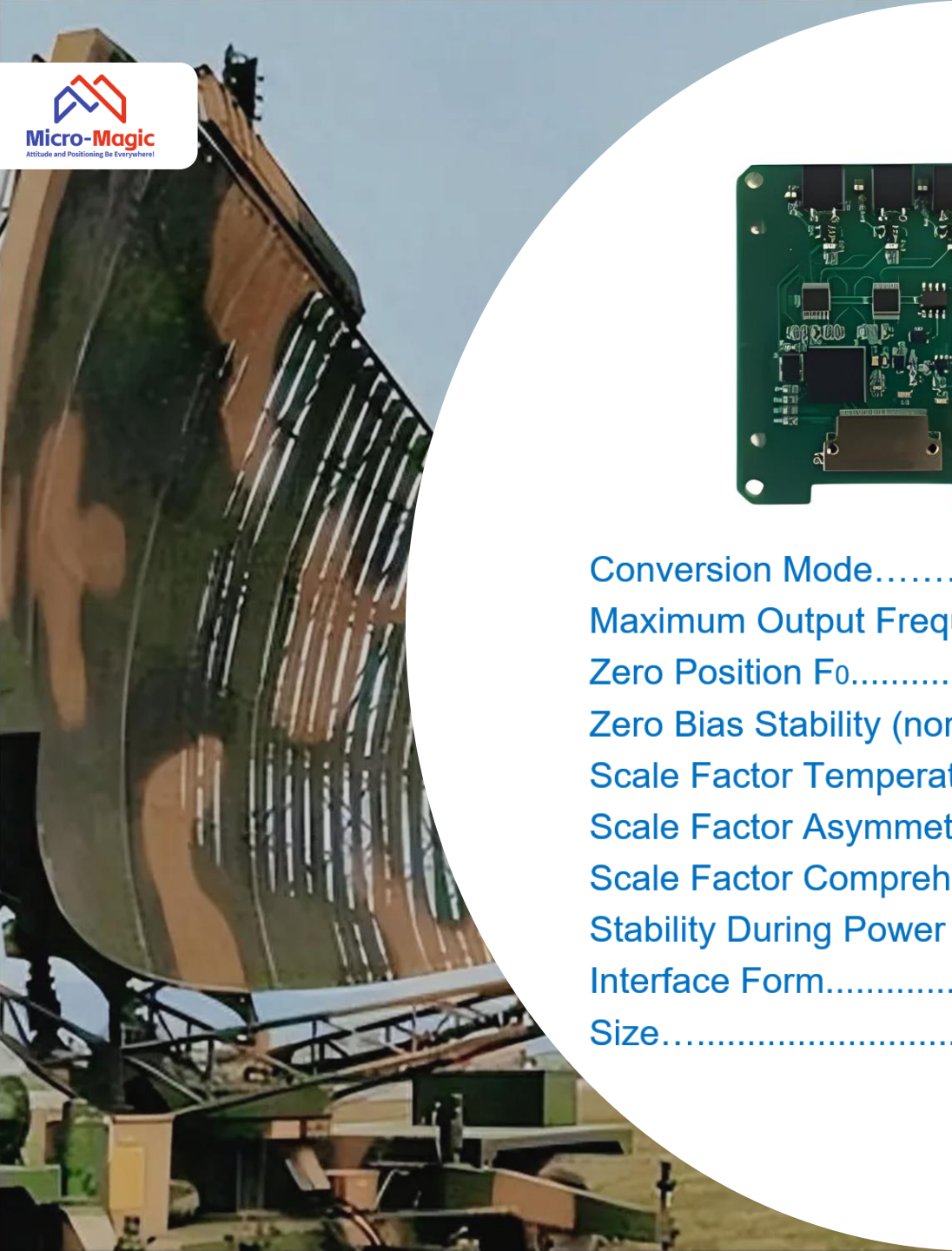
Range.....	±30g
Threshold/Resolution.....	30μg
Bias K_0/K_1	±20mg
Scale Factor K_1	1.9~2.1mA/g
Class II Nonlinearity Coefficient K_2/K_1	±20~±50μg/g ²
Bias Drift Sigma K_0 (1σ, one month).....	150~220μg
Repeatability of Scale Factor Sigma $\sigma K_1/K_1$ (1σ, one month).....	150~220ppm
Class II nonlinearity Coefficient repeatability $\sigma K_2/K_1$ (1σ, one month).....	±40~±50μg/g ²
Bias Thermal Coefficient.....	±80~±150μg/°C
Scale Factor Thermal Coefficient.....	±100~±200ppm/°C
Size.....	Φ18.2*16mm
Weight.....	25g

AC7-A/B/C TACTICAL GRADE

Single Axis Fiber Optic Gyroscope



Range.....	±60g
Threshold/Resolution.....	10μg
Bias K_0/K_1	±10mg
Scale Factor K_1	1.2±0.2mA/g
Class II Nonlinearity Coefficient K_2/K_1	±20μg/g ²
Bias Drift Sigma K_0 (1σ, one month).....	40μg
Repeatability of Scale Factor Sigma $\sigma K_1/K_1$ (1σ, one month).....	50ppm
Class II nonlinearity Coefficient repeatability $\sigma K_2/K_1$ (1σ, one month).....	±20μg/g ²
Bias Thermal Coefficient.....	±30μg/°C
Scale Factor Thermal Coefficient.....	±50ppm/°C
Size.....	Φ18.2*23/Φ18.2*20.6mm
Weight.....	30g



AVI-/B TACTICAL GRADE

IF/VF Conversion Board for Quartz Flexible Accelerometer

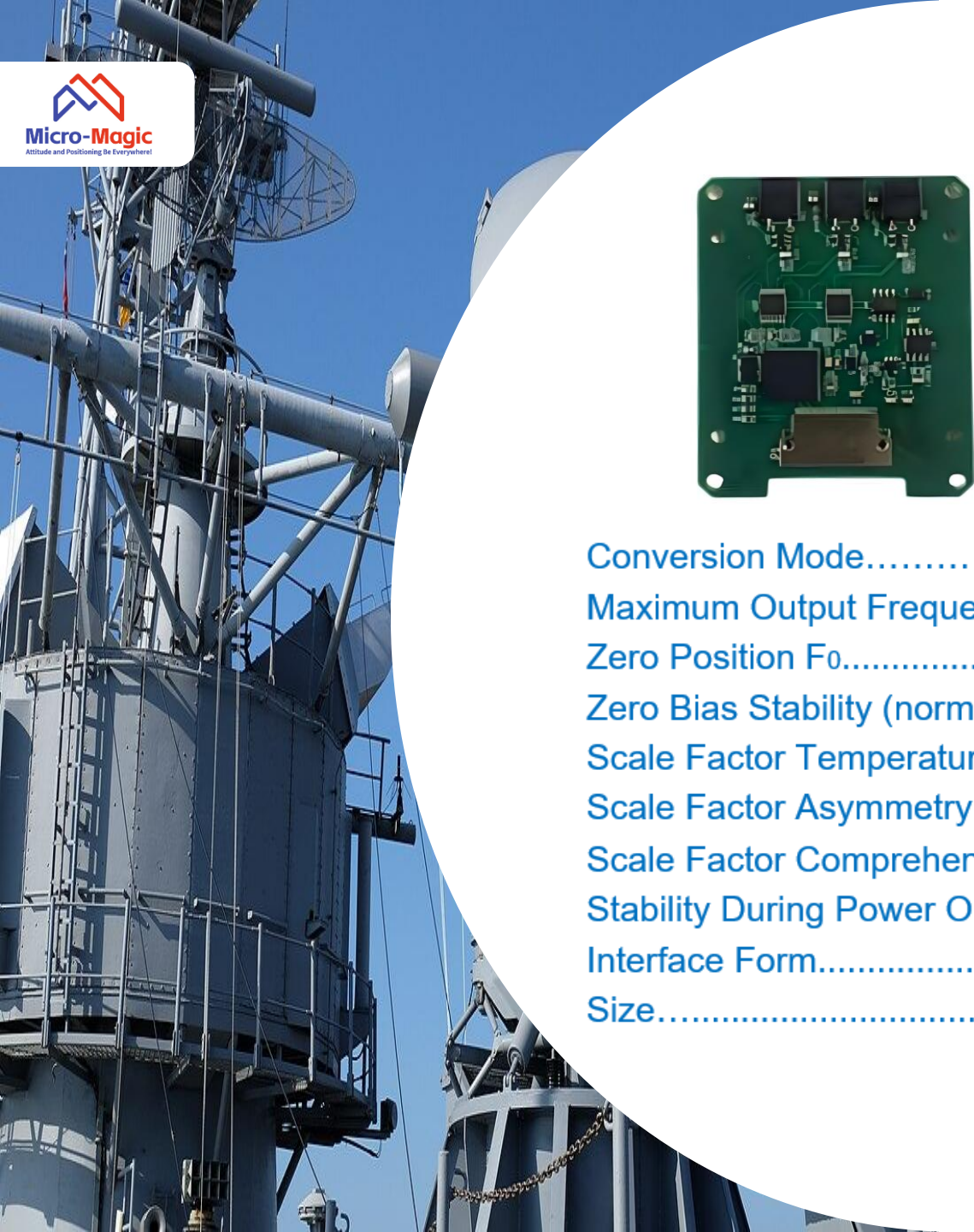
Conversion Mode.....	Voltage Frequency
Maximum Output Frequency (full temperature).....	512KHz
Zero Position F_0	60~100nA
Zero Bias Stability (normal temperature).....	10~20ppm
Scale Factor Temperature Coefficient (full temperature).....	1~2ppm/°C
Scale Factor Asymmetry ($I=\pm 1\text{mA}$, $T_c = 25^\circ\text{C}$).....	0~30ppm
Scale Factor Comprehensive Nonlinearity (full temperature range, $1\text{mA} \leq I \leq \text{FS}$).....	30~50ppm
Stability During Power On ($I=\pm 1\text{mA}$, $T_c = 25^\circ\text{C}$).....	10~20ppm
Interface Form.....	J30JZ/LN21ZKWA000
Size.....	48*40*11mm

AVI-C TACTICAL GRADE

IF/VF Conversion Board for Quartz Flexible Accelerometer



Conversion Mode.....	Voltage Frequency
Maximum Output Frequency (full temperature).....	512KHz
Zero Position F_0	60~100nA
Zero Bias Stability (normal temperature).....	10~20ppm
Scale Factor Temperature Coefficient (full temperature).....	1~2ppm/°C
Scale Factor Asymmetry ($I=\pm 1\text{mA}$, $T_C=25^\circ\text{C}$).....	0~30ppm
Scale Factor Comprehensive Nonlinearity (full temperature range, $1\text{mA}\leq I \leq \text{FS}$).....	30~50ppm
Stability During Power On ($I=\pm 1\text{mA}$, $T_C=25^\circ\text{C}$).....	10~20ppm
Interface Form.....	Dual in-line plug lead out
Size.....	48*40*8mm



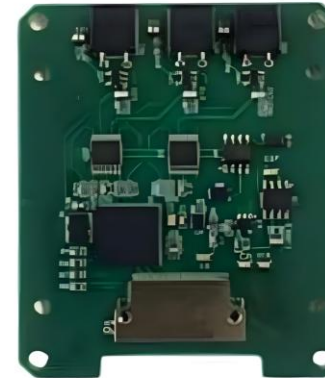
AVI-E TACTICAL GRADE

IF/VF Conversion Board for Quartz Flexible Accelerometer

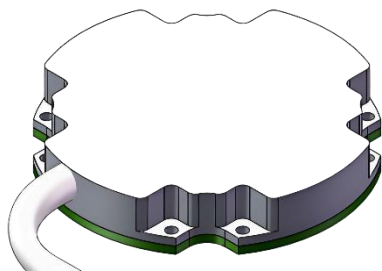
Conversion Mode.....	Current Frequency
Maximum Output Frequency (full temperature).....	512KHz
Zero Position F_0	0~20nA
Zero Bias Stability (normal temperature).....	5~10ppm
Scale Factor Temperature Coefficient (full temperature).....	0.5~1ppm/°C
Scale Factor Asymmetry ($I=\pm 1\text{mA}$, $T_c=25^\circ\text{C}$).....	0~30ppm
Scale Factor Comprehensive Nonlinearity (full temperature range, $1\text{mA}\leq I \leq \text{FS}$).....	30ppm
Stability During Power On ($I=\pm 1\text{mA}$, $T_c=25^\circ\text{C}$).....	7~15ppm
Interface Form.....	J30JZ/LN25ZKWA000
Size.....	76*50*11mm

AVI-F TACTICAL GRADE

IF/VF Conversion Board for Quartz Flexible Accelerometer



Conversion Mode.....	Current Frequency
Maximum Output Frequency (full temperature).....	256KHz
Zero Position F_0	0~10nA
Zero Bias Stability (normal temperature).....	5ppm
Scale Factor Temperature Coefficient (full temperature).....	1ppm/°C
Scale Factor Asymmetry ($I=\pm 1\text{mA}$, $T_c = 25^\circ\text{C}$).....	0~20ppm
Scale Factor Comprehensive Nonlinearity (full temperature range, $1\text{mA} \leq I \leq \text{FS}$).....	15~20ppm
Stability During Power On ($I=\pm 1\text{mA}$, $T_c = 25^\circ\text{C}$).....	3~5ppm
Interface Form.....	J30JZ/LN51ZKWA000
Size.....	108*60*15mm



AD-A TACTICAL GRADE

AD Conversion Board for Quartz Flexible Accelerometer

Conversion Mode.....	Analog Digital
Measuring range FS.....	±50mA
Zero Position Temperature Coefficient (I=0mA, full temperature).....	2nA/°C
Zero Bias Stability (normal temperature).....	2nA
Scale Factor Temperature Coefficient (full temperature).....	3ppm/°C
Scale Factor Stability (I=±1mA, T _c =25°C).....	10ppm
Scale Factor Comprehensive Nonlinearity (full temperature range, 1mA≤ I ≤FS).....	15ppm
Operating Temperature Range.....	-40~+70°C



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Unmanned Aerial
Vehicles



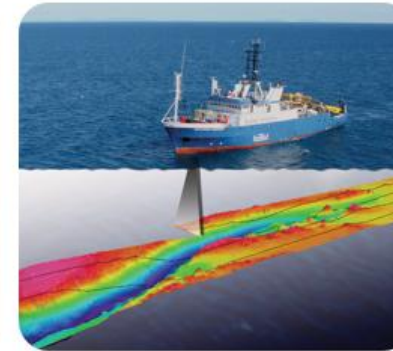
Satellites



Autonomous Vehicles



Remotely Operated
Underwater Vehicles



Maritime Echosounder
Application



Petroleum Extraction
and Exploration