

Using breakthrough technology,  
we aim for products that will create new markets.

# New Product News

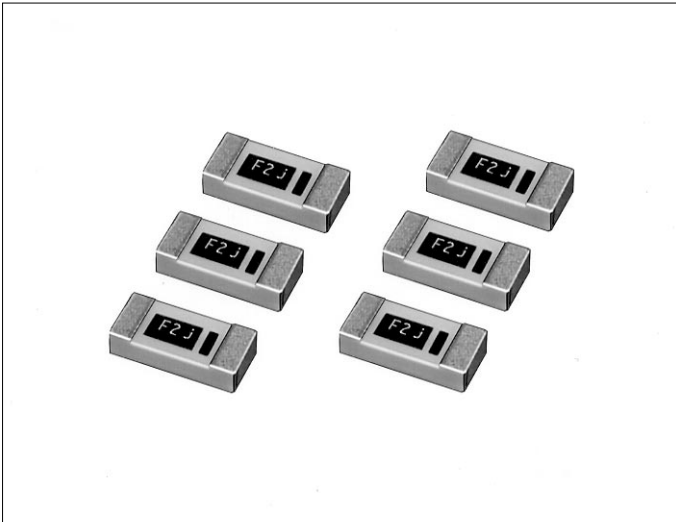
Industry minimum thin

## Sensor

### Piezoelectric Sensor For Mechanical Shock

Industry/Field: AV, OA/Information, Amusement

## Small, Lightweight, Suitable for Memory Data Protection of HDD etc



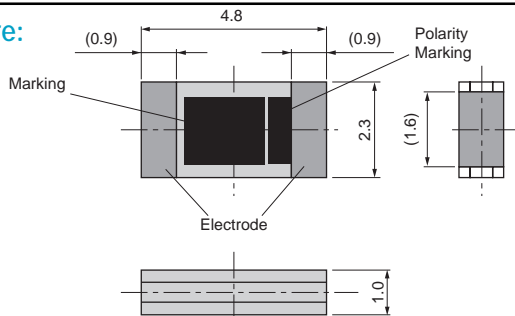
#### • Development Target:

This sensor is suitable for the memory protection of OA instruments. This is very small and possible to be surface mounted.

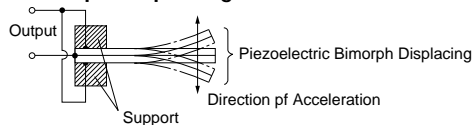
#### • Features:

- ① Small Surface Area ; 11.0 mm<sup>2</sup>
- ② Lightweight ; 80 mg
- ③ Wide Frequency Range ; 80 to 10,000 Hz (Rin=10 MΩ, ±3 dB)

#### • Structure:



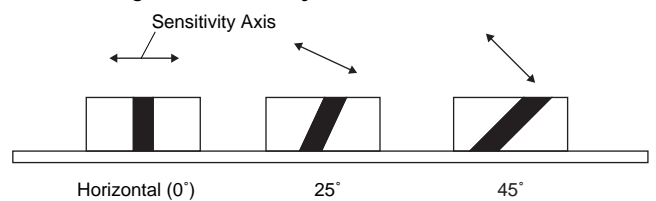
#### ■ The Schematic of Piezoelectric Bimorph Displacing



#### • Characteristics/specifications:

Number	Voltage Sensitivity mv / (m/S <sup>2</sup> )	Capacitance pF	Resonant Frequency kHz	Incident Angle of Sensitivity Axis deg.
EFJG00EF01	0.1±15 %	200 typ.	≥27	0±3
EFJG25EF01	0.1±15 %	200 typ.	≥27	25±3
EFJG45EF01	0.1±15 %	200 typ.	≥27	45±3

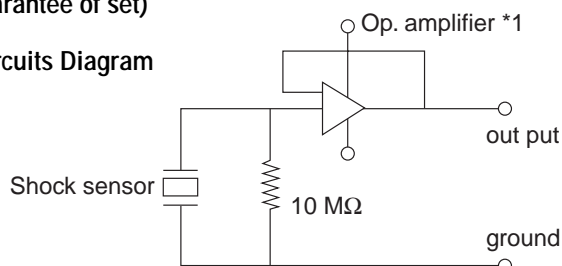
#### Incident Angle of Sensitivity Axis



#### • Applications/usage examples:

- Detect external shock applied to the HDD & CD-ROM
- Prevents "Tracking Error" due to vibration of AV equipments
- Momory of drop (Ex. Guarantee of set)

#### ■ Test Circuits Diagram



\*1 : #AN1081S (MATSUSHITA) or same grade

#### • Explanation of part numbers:

