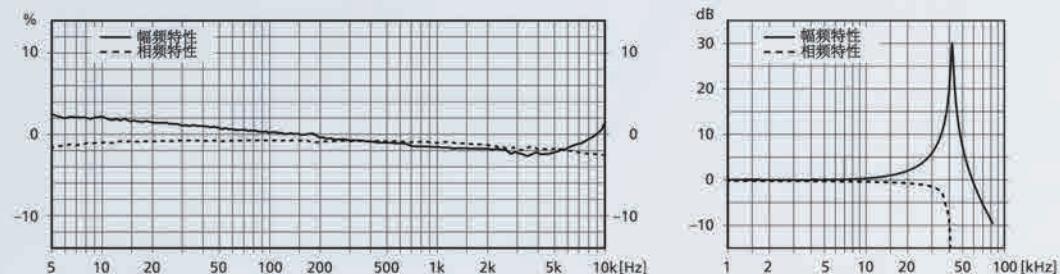


# Piezoelectric Voltage output type (IEPE) accelerometer

General tri-axial accelerometer Model: U324E.6 Version: U324E.6v221EN

| PERFORMANCE                      | ENGLISH                | SI                              |
|----------------------------------|------------------------|---------------------------------|
| sensitivity ( $\pm 10\%$ )       | 100mV/g                | 10.2mV/(m/s <sup>2</sup> )      |
| measuring range                  | $\pm 50$ g pk          | $\pm 490$ m/s <sup>2</sup> pk   |
| frequency range( $\pm 5\%$ )【2】  | 1~3kHz                 | 1~3kHz                          |
| frequency range( $\pm 10\%$ )【2】 | 0.5~4kHz               | 0.5~4kHz                        |
| resonance frequency【1】           | >20K                   | >20K                            |
| non-linearity【3】                 | $\leq 1\%$             | $\leq 1\%$                      |
| tansverse sensitivity            | $\leq 5\%$             | $\leq 5\%$                      |
| resolution ratio                 | 0.0001g rms            | 0.001 m/s <sup>2</sup> rms      |
| <b>Environmental character</b>   |                        |                                 |
| overload limit                   | $\pm 1000$ g pk        | $\pm 9,800$ m/s <sup>2</sup> pk |
| temperature range                | -58~+248° F            | -50~+120°C                      |
| <b>Electrical character</b>      |                        |                                 |
| excitation voltage【4】            | +18~+30 VDC            | +18~+30 VDC                     |
| excitation current【5】            | 2~20 mA                | 2~20 mA                         |
| bias voltage【1】                  | 8~12V                  | 8~12V                           |
| electrical isolation             | Isolation              | Isolation                       |
| output polarity【1】               | positive               | positive                        |
| <b>physical character</b>        |                        |                                 |
| sensing geometry                 | ceramic                | ceramic                         |
| stucture mode                    | shear                  | shear                           |
| housing material                 | titanium               | titanium                        |
| sealing mode                     | laser welding          | laser welding                   |
| dimension                        | 0.70x0.51in            | 18x13mm                         |
| weight【1】                        | 0.42 oz                | 12g                             |
| electrical connector             | 1/4-28 4 pin           | 1/4-28 4 pin                    |
| electrical connection location   | -                      | -                               |
| mounting                         | 10-32 UNF through hole | 10-32 UNF through hole          |

## TYPICAL FREQUENCY RESPONSE:



## NOTE:

- 【1】 Inherent characteristics
- 【2】 The low frequency response is determined by the external signal conditioner
- 【3】 least square method
- 【4】 two-wire constant current incentive source power supply, recommended 24V.
- 【5】 excitation current recommended 4mA.

## DRAWING:

