

Shock Sensors - PKGS-00TAV-R

The shock sensor, PKGS series, is acceleration sensor with 2 terminals and detects acceleration & shock to be applied from outside, as electrical signal.

By bimorph piezo elements clamped at the one-end (Cantilever construction) with original polarisation technology, the shock sensor has high sensitivity and excellent durability.

The shock sensor is reflow solderable SMD type. The shock sensor can have inclined primary axis.



Features

1. Small size, low profile, high sensitivity and excellent durability.
2. Excellent linearity
3. High resonant frequency and wide bandwidth
4. Available tape and reel packaging
5. Reflowable

Application

1. Automotive for TPMS use only

Specifications

| | |
|-------------------------------|----------------------------------|
| Primary Axis Inclined Angle | 0° |
| Sensitivity (Typ.) | 0.800mV/G |
| Capacitance (Typ.) | 245pF |
| Insulation Resistance (min.) | 10000M ohm |
| Resonant Frequency (Typ.) | 39kHz |
| Non-linearity (Typ.) | 1% |
| Transverse Sensitivity (Typ.) | |
| Shock Resistance | 3000G (0.3ms duration) |
| Min Operating Temp. Range | -40°C |
| Max Operating Temp. Range | 125°C |
| Min Storage Temp. Range | -40°C |
| Max Storage Temp. Range | 125°C |
| Application | Automotive for TPMS use only |
| Sensitivity Type | Electric charge sensitivity type |

● Part Numbering

Shock Sensors (SMD Type)

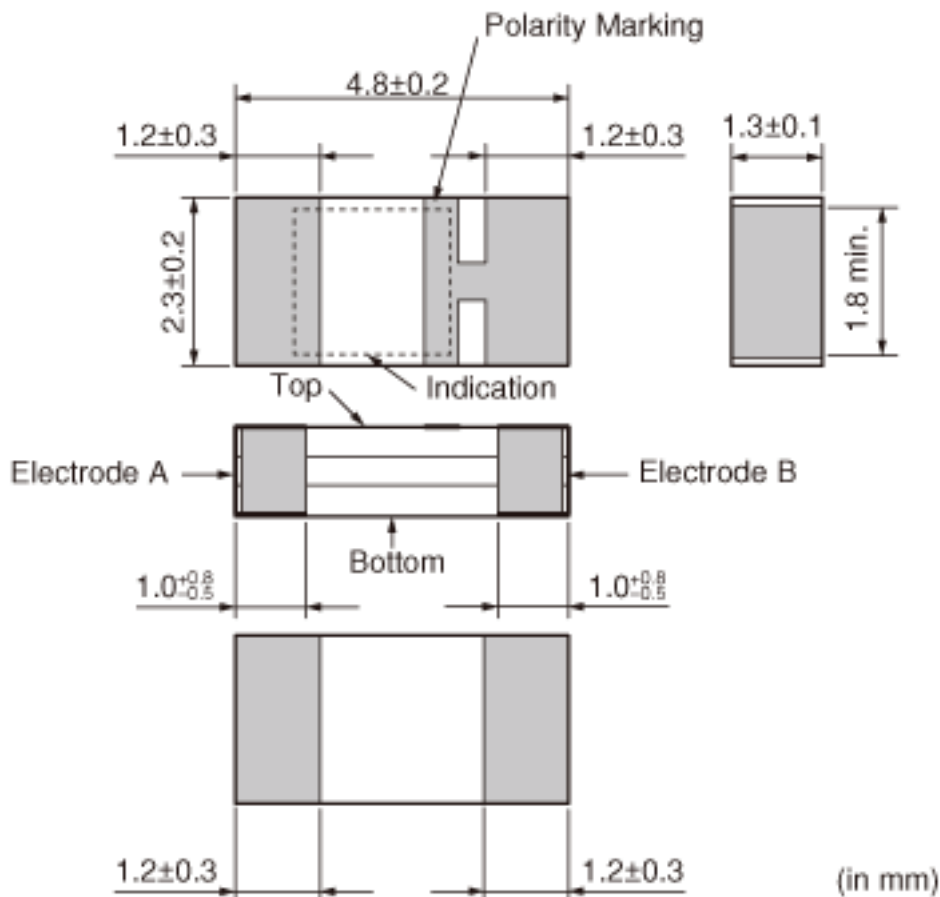


- ① Product ID
- ② Series
- ③ Characteristics
- ④ Individual Specification Code
- ⑤ Packaging

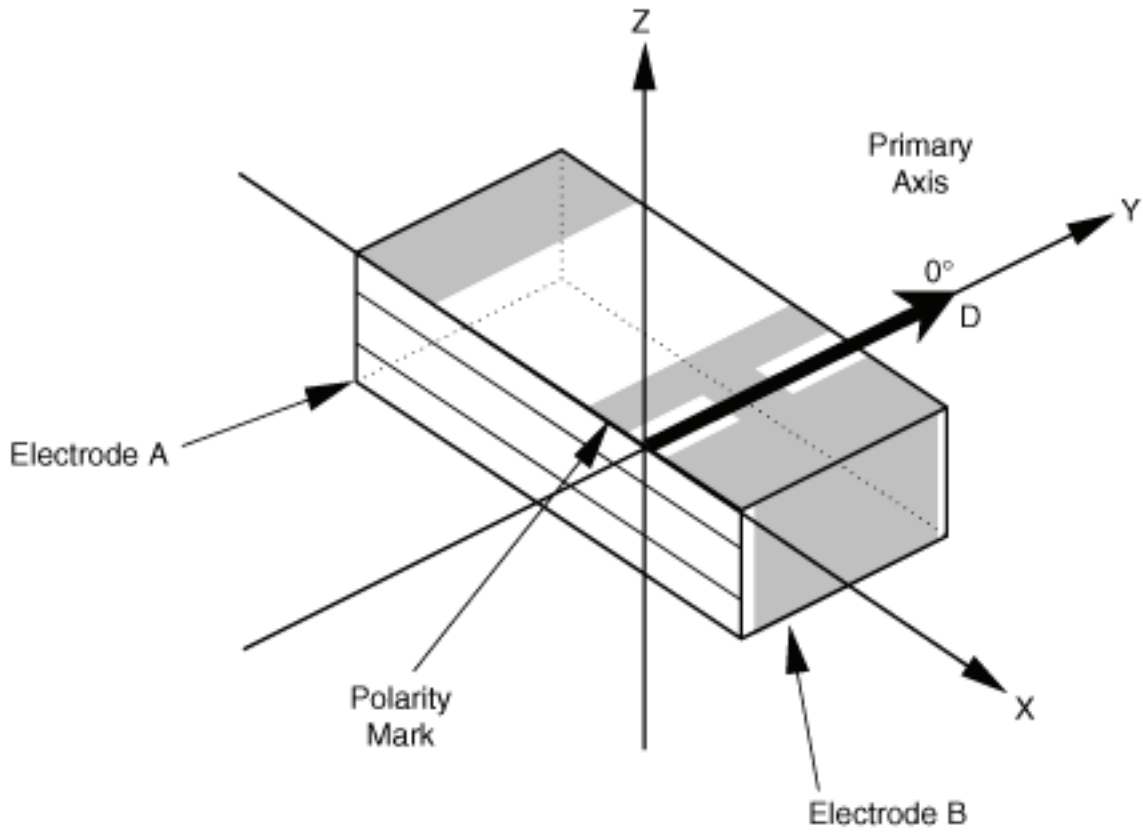
* "(Part Number)" shows only an example which might be different from actual part number.

* "③ Characteristics", "④ Individual Specification Code" and "⑤ Packaging" might have different digit number from actual part number.

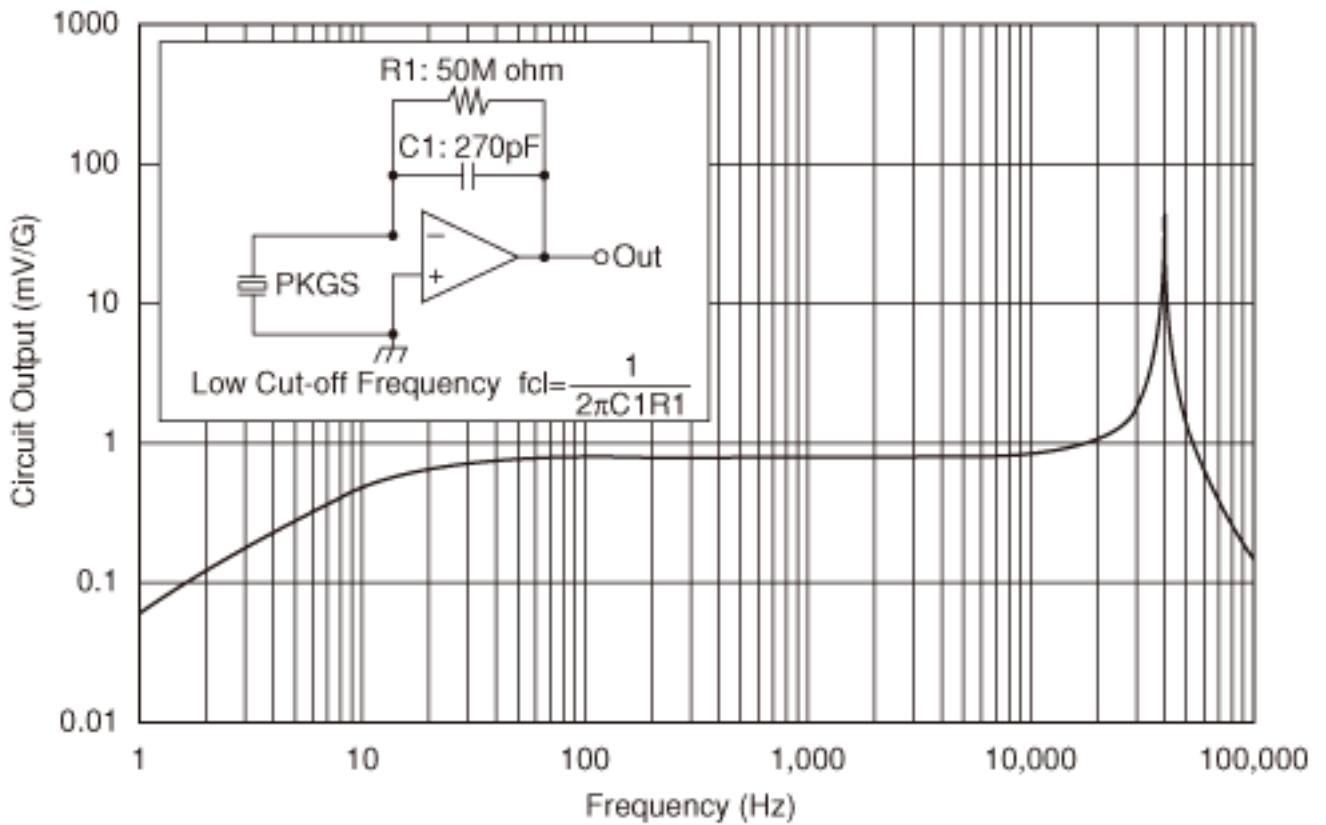
Dimensions

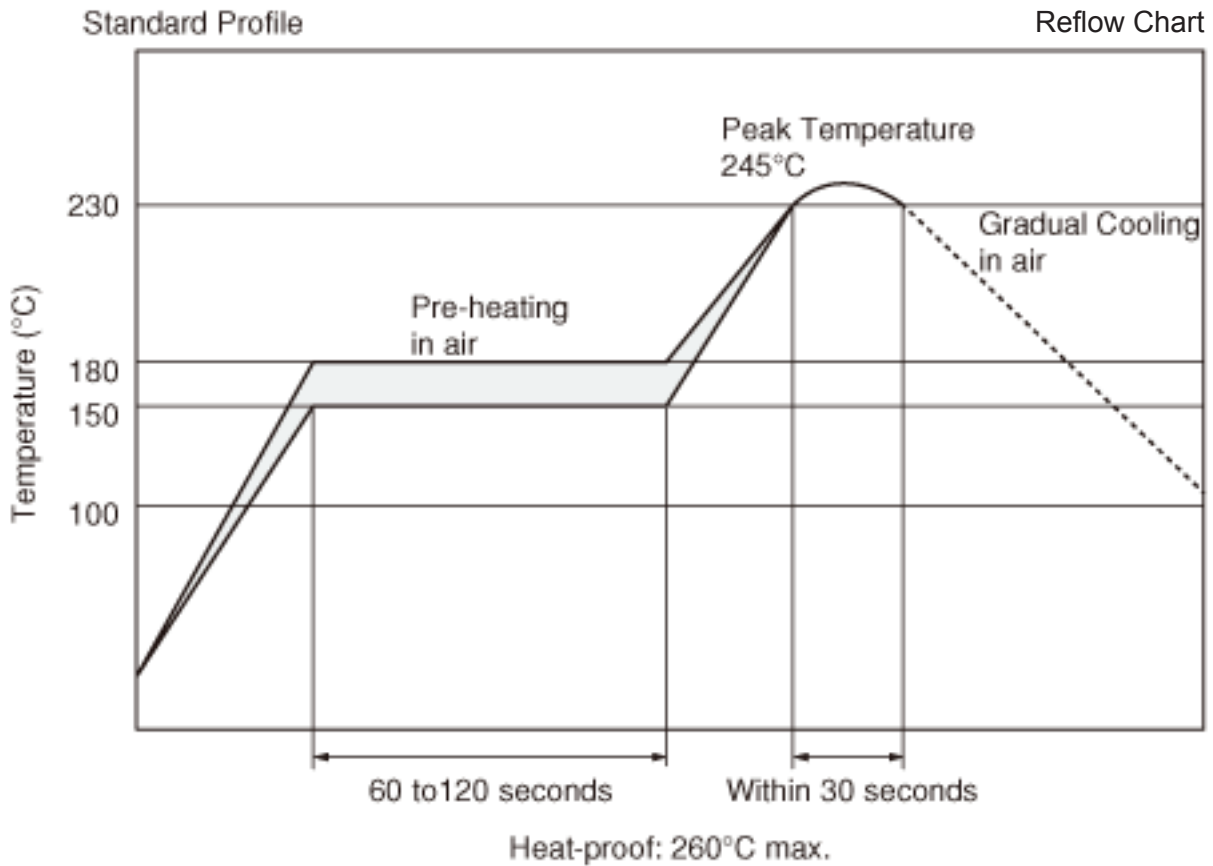


Primary axis inclined angle

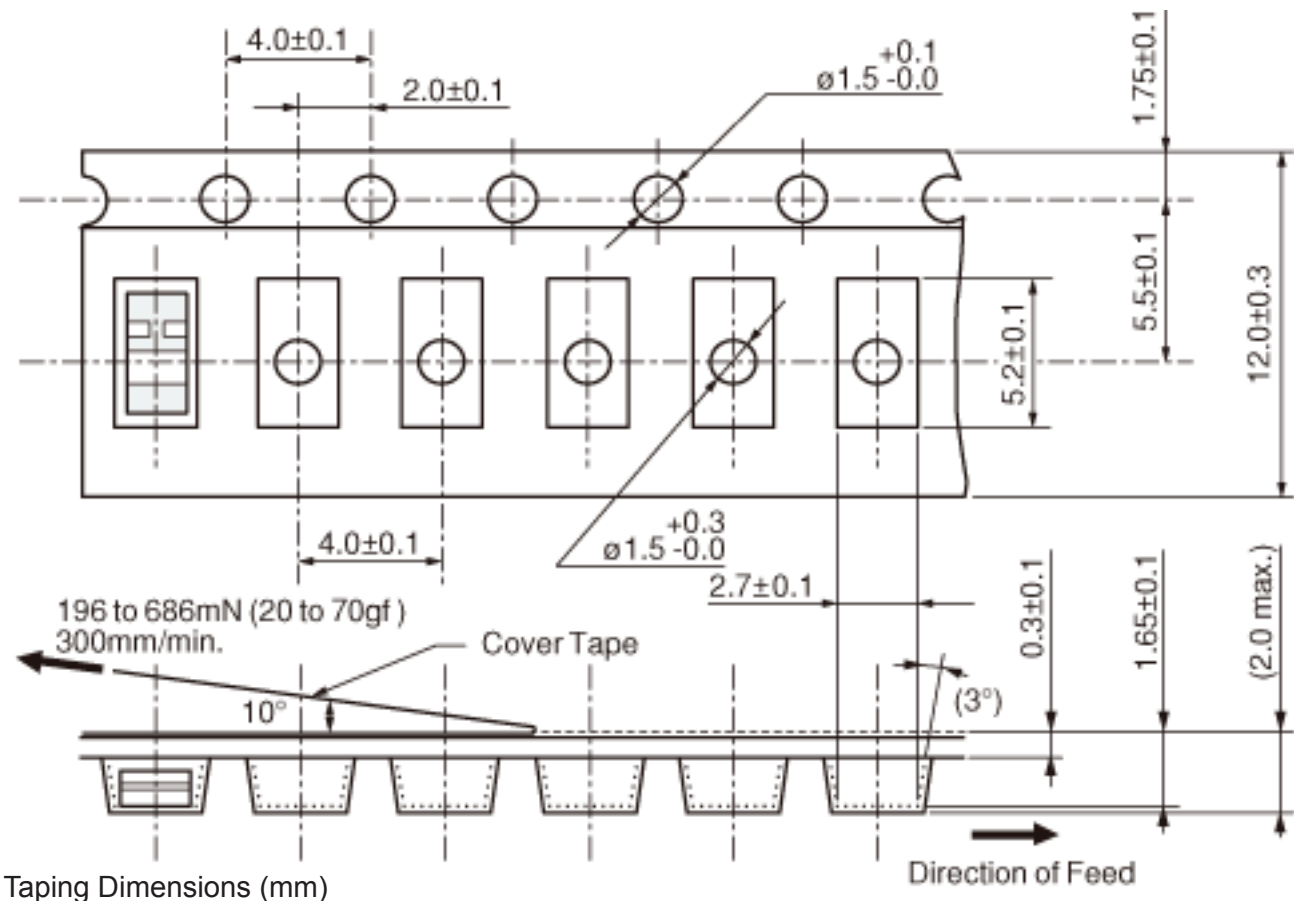


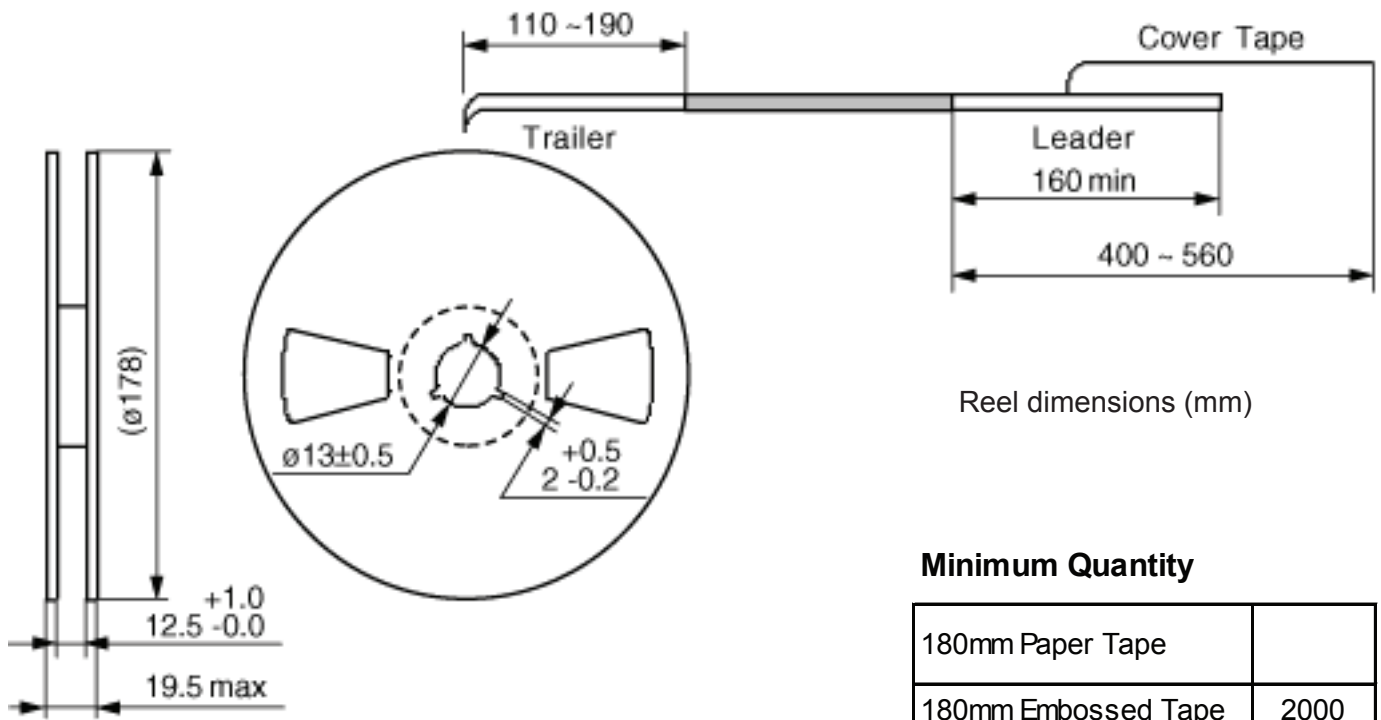
Frequency characteristics





1. Sensor output is defined by generated electrical charge. Please use this shock sensor with a non inverting voltage amplifier circuit.
2. Please do not apply DC voltage for this shock sensor.
3. Please contact Willow Technologies for washing conditions.



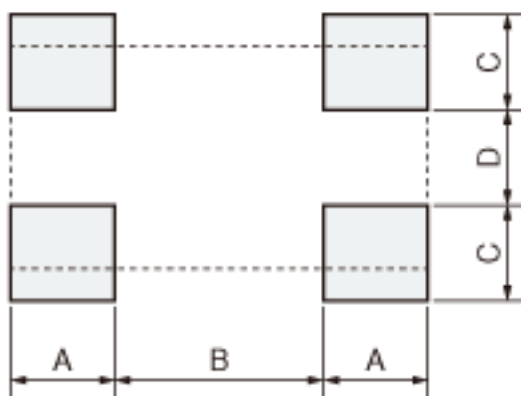


Reel dimensions (mm)

Minimum Quantity

| | |
|---------------------|------|
| 180mm Paper Tape | |
| 180mm Embossed Tape | 2000 |
| 330mm Paper Tape | |
| 330mm Embossed Tape | |
| Bulk Case | |
| Bulk(Bag) | |
| Ammo Pack | |
| 320Reel | |
| Magazine | |
| Box | |

Standard Land Pattern



Dimensions

| | PKGS-□□TA□-R |
|---|--------------|
| A | 1.2 mm |
| B | 2.4 mm |
| C | 1.1 mm |
| D | 1.1 mm |