

# Strain Gages for Ultra-small Strain Measurements

# KSNB

|                                                                                  |                    |
|----------------------------------------------------------------------------------|--------------------|
| ● Gage Factor                                                                    | Approx. -100, -110 |
| ● Applicable Linear Expansion Coefficients ( $\times 10^{-6}/^{\circ}\text{C}$ ) | 11, 16             |
| ● Self-temperature-compensation Range                                            | 20 to 50°C         |

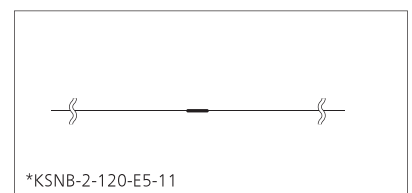
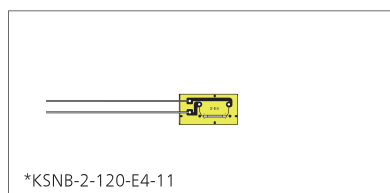
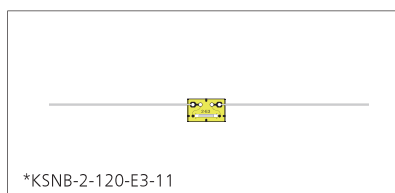
Applicable Adhesives and Operating Temperature Ranges  
 EP-340: -50 to 150°C  
 CC-33A: -50 to 120°C  
 CC-36: -30 to 100°C

## Self-temperature-compensation Semiconductor Strain Gages

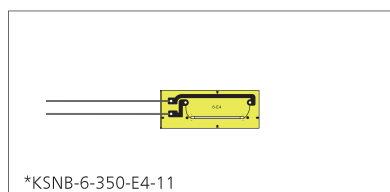
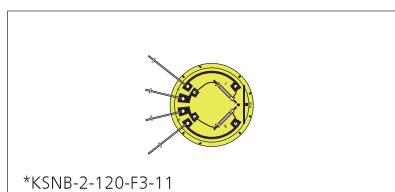
RoHS **NEW**

The KSNB series gages use an N-type silicon as the resistive element to control the resistance temperature coefficient of the material according to the linear expansion coefficient of the measuring object. Thus, the change of thermally-induced resistance is minimized. (Excluding E5)

## KSNB ● Uniaxial, Biaxial



| Models          | KSNB-2-120-E3- | 11<br>16 | KSNB-2-120-E4- | 11<br>16 | KSNB-2-120-E5- | 11<br>16 |
|-----------------|----------------|----------|----------------|----------|----------------|----------|
| Pattern         | Uniaxial       |          | Uniaxial       |          | Uniaxial       |          |
| Gage Factor     | Approx. -100   |          | Approx. -100   |          | Approx. -110   |          |
| Base            | 5 × 3 mm       |          | 7.7 × 4 mm     |          | —              |          |
| Gage (Grid)     | 2 × 0.3 mm     |          | 2 × 0.3 mm     |          | 2 × 0.3 mm     |          |
| Resistance      | 120 Ω          |          | 120 Ω          |          | 120 Ω          |          |
| Pieces per Pack | 4              |          | 4              |          | 4              |          |



| Models          | KSNB-2-120-F3-  | 11<br>16 | KSNB-6-350-E4- | 11<br>16 |
|-----------------|-----------------|----------|----------------|----------|
| Pattern         | Biaxial, 0°/90° |          | Uniaxial       |          |
| Gage Factor     | Approx. -100    |          | Approx. -100   |          |
| Base            | φ11             |          | 13 × 5 mm      |          |
| Gage (Grid)     | 2 × 0.3 mm      |          | 6 × 0.31 mm    |          |
| Resistance      | 120 Ω           |          | 350 Ω          |          |
| Pieces per Pack | 2               |          | 4              |          |

When ordering, specify the model number as follows.

KSNB-□-□-□-□

(e.g.) KSNB-2-120-E3-11

\*Values in □ and lead-wire cable code cannot be arbitrarily combined.

| Lead-wire Cable Type and Shape                | Oprg. Temp.  | Length |
|-----------------------------------------------|--------------|--------|
| Silver-covered copper wire                    | -50 to 150°C | 25 mm  |
| Silver-covered copper wires                   | -50 to 150°C | 25 mm  |
| Oxygen-free tin-plated copper wires (Only E5) | -50 to 150°C | 40 mm  |

\*Gage (Grid): Length × Width