

# Sensors

## Temperature Sensors NTC Thermistors

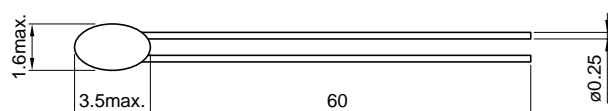
## NTCBS Series

### RADIAL LEAD GLASS-SEALED TYPE

#### FEATURES

- Small and compact, and quickly response to heat.
- Easy to assemble, and can be miniaturized.
- Highly reliable because of the glass-sealed construction.
- Resistance tolerances are small under wide temperature range.

#### DIMENSION CODE 3516



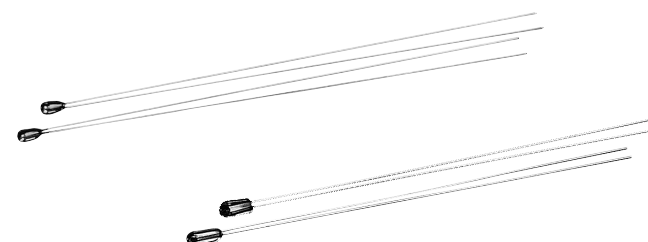
#### DIMENSION CODE 5525



Dimensions in mm

#### CHARACTERISTICS

| Item  | NTCBS3516             | NTCBS5525              |
|---|-----------------------|------------------------|
| Operating temperature range                       | -50 to +250°C         | -50 to +300°C          |
| Heat dissipation constant [in still air]          | 0.9mW/°C              | 1.5mW/°C               |
| Thermal time constant [in still air]              | 9s max.               | 25s max.               |
| Insulation resistance<br>[between lead and glass] | 10MΩ min.<br>[DC.50V] | 50MΩ min.<br>[DC.500V] |



#### ELECTRICAL CHARACTERISTICS

| Part No.                | Nominal resistance<br>[at 25°C] | Constant B<br>[at +25 to +85°C] |
|-------------------------|---------------------------------|---------------------------------|
| NTCBS35163H*1G*2103X*3C | 10kΩ±X%                         | 3400K±2%                        |

| Part No.          | Nominal resistance<br>[at 100°C] | Constant B<br>[at +100 to +200°C] |
|-------------------|----------------------------------|-----------------------------------|
| NTCBS55255BF843XD | 84kΩ±X%                          | 5100K±1%                          |

\*1 Nominal constant B (Resistance temperature characteristics): This code indicates the value of constant B using a combination of one numeric character and one alphabetic character.

| Numeric code | Constant B (K) | Part No.  | Alphabetic code | Constant B (K) |
|--------------|----------------|-----------|-----------------|----------------|
| 3            | 3000           | NTCBS5525 | B               | 51 to 100      |
| 5            | 5000           | NTCBS3516 | H               | 351 to 400     |

\*2 Tolerance of nominal constant B: ±1%(F), ±2%(G)

\*3 Nominal resistance tolerance X: Select either ±2%(G), ±3%(H), ±5%(J), or ±10%(K).