

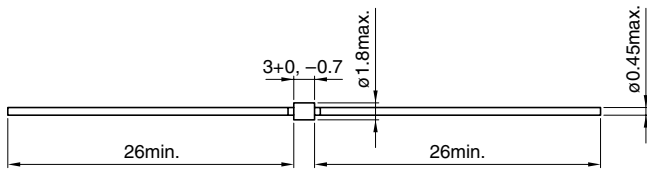
Sensors

Temperature Sensors NTC Thermistors

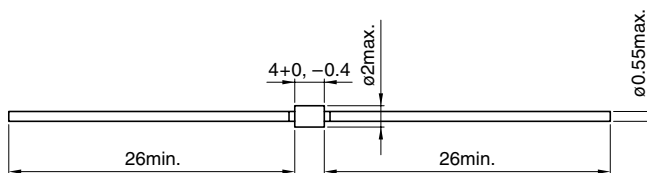
NTCDS Series(Lead Type)

SHAPES AND DIMENSIONS

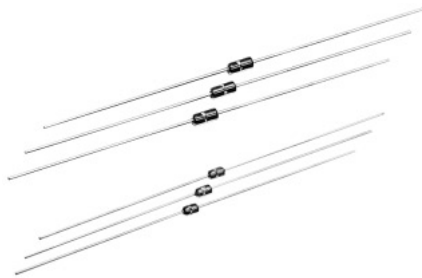
DIMENSIONAL CODE 3(3.0×ø1.8mm)



DIMENSIONAL CODE 4(4.0×ø2.0mm)



Dimensions in mm



CHARACTERISTICS

Dimensional code	3(3.0×ø1.8mm)	4(4.0×ø2.0mm)
Operating temperature range	-40 to +250°C	-40 to +250°C
Heat dissipation constant [in still air]	1mW/°C	2mW/°C
Thermal time constant [in still air]	10s max.	20s max.
Insulation resistance [between lead and glass]	50MΩ min. [DC.500V]	50MΩ min. [DC.500V]

Temperature coefficient

The relationship between temperature coefficient α and B constant can be expressed as follows:

$$\alpha = -\frac{B}{T^2} \times 100 (\%/^{\circ}\text{C})$$

Example: The temperature coefficient at 20°C with B=3400K can be calculated at -4%/°C.

ELECTRICAL CHARACTERISTICS

Part No.	Nominal resistance [at 25°C]	B constant [at +25 to +85°C]
Dimensional code 3(3.0×ø1.8mm)		
NTCDS3EG502□C3NB	5kΩ±□%	3250K±2%
NTCDS3HG103□C3NB	10kΩ±□%	3400K±2%
NTCDS3KG203□C3NB	20kΩ±□%	3500K±2%
NTCDS3RG503□C3NB	50kΩ±□%	3800K±2%
NTCDS3SG104□C3NB	100kΩ±□%	3850K±2%
Dimensional code 4(4.0×ø2.0mm)		
NTCDS3EG502□C4NB	5kΩ±□%	3250K±2%
NTCDS3HG103□C4NB	10kΩ±□%	3400K±2%
NTCDS3KG203□C4NB	20kΩ±□%	3500K±2%
NTCDS3RG503□C4NB	50kΩ±□%	3800K±2%
NTCDS3SG104□C4NB	100kΩ±□%	3850K±2%

* □: Please specify the code of tolerance on nominal resistance.
F(±1%), G(±2%), H(±3%), J(±5%)