

NTC Thermistors

Assembly products

NTCGP/NTCDP series

Issue date: October 2011

- All specifications are subject to change without notice.
 - Conformity to RoHS Directive: This means that, in conformity with EU Directive 2002/95/EC, lead, cadmium, mercury, hexavalent chromium, and specific bromine-based flame retardants, PBB and PBDE, have not been used, except for exempted applications.
-

RESIN DIP TYPE WITH BUILT-IN MULTILAYER ELEMENT TYPE NTC THERMISTOR

FEATURES

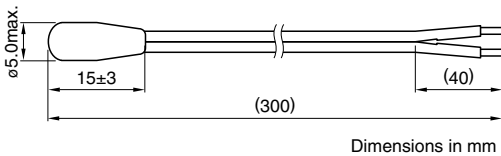
- Employs a multilayer element type thermistor.
- Good heat responsiveness due to its small size.
- Product is lead-free.

APPLICATIONS

- Room temperature detection (air conditioners, fan heaters, toilet seats with warm water washing function, automobile air conditioners etc.)
- Temperature maintenance detection (seating surface of toilet seats with warm water washing function etc.)
- Water temperature detection (hot water pots etc.)
- Temperature detection (refrigerator compartments, heated carpets etc.)

PART NO.: NTCGP3UH153HCJDAA

SHAPES AND DIMENSIONS



1	Thermistor	Multilayer element type
2	Resin	Epoxy resin
3	Wires	Seven AWG26 parallel lines with heat proof (105°C) vinyl chloride/0.16 mm, Sn-plated
4	End finish	Different specifications available including stripped, crimped and connector fitted.



CHARACTERISTICS

No.	Nominal resistance value [at 25°C]	B constant [25/50°C]ref.
1	15kΩ	3950K
2	20kΩ	3950K
3	50kΩ	3950K

Operating temperature range	-20 to +80°C
Thermal time constant	6s max.[in still water]
Heat dissipation constant	2.8mW/°C[in still air]

EPOXY PLASTIC CASE TYPE

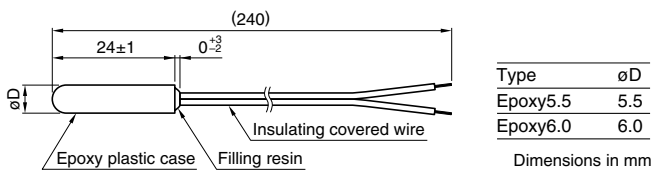
FEATURES

- Excellent in high reliability, high responsiveness, high heat resistance.
- Three types are available.
Epoxy(ø5.5mm) type: Priority given to heat responsiveness
Epoxy(ø6.0mm) type: Compatible with copper case type of ø6.0mm
Epoxy screw fix type: Superior surface temperature detection

APPLICATIONS: TEMPERATURE DETECTION(MAINLY FOR AUTOMATIC VENDING MACHINES, REFRIGERATORS)

PART NO.: NTCDP4AG103JCDBBA

SHAPES AND DIMENSIONS



APPLICATIONS

Air-conditioners, refrigerators, automatic vending machines, water sinks, dish washer-dryers, garbage crushers.



CHARACTERISTICS

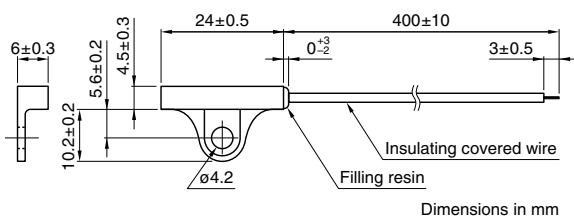
Nominal resistance	R ₂₅ =10kΩ±5%
B constant	B _{25/85} =4000K±2%
Operating temperature range	-40 to +150°C
Thermal time constant	15s max.[in still water]
Heat dissipation constant	3.3mW/°C[in still air]

- Please contact us for the other specified(nominal resistance value and B constant) products.

APPLICATIONS: SURFACE TEMPERATURE DETECTION (MAINLY FOR REFRIGERATORS, AIR-CONDITIONERS)

PART NO.: NTCDP4AG103HCFCBA

SHAPES AND DIMENSIONS



CHARACTERISTICS

Nominal resistance	R ₂₅ =10kΩ±3%
B constant	B _{25/85} =4000K±2%
Operating temperature range	-40 to +150°C
Thermal time constant	15s max.[in still water]
Heat dissipation constant	3.3mW/°C[in still air]

- Please contact us for the other specified(nominal resistance value and B constant) products.

ASSEMBLY PRODUCTS

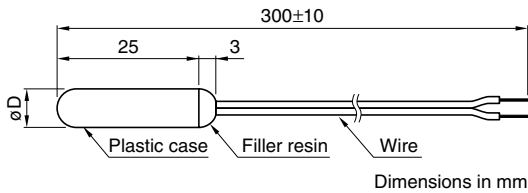
ABS PLASTIC CASE TYPE

FEATURES

- Uses a plastic case that is compliant to Food Hygiene Act.
- Highly water-proof.
- Inexpensive.

PART NO.: NTCDP3SX202XCBBAA

SHAPES AND DIMENSIONS



Type	ϕD
ABS $\phi 6.0$	6.0
ABS $\phi 6.8$	6.8
ABS $\phi 8.0$	8.0

APPLICATIONS

Refrigerators, automatic vending machines, air-conditioners.

CHARACTERISTICS

Nominal resistance	$R_3=5.6k\Omega \pm 0.2k\Omega [3^\circ C]$
B constant	$B_{3/50}=3850K \pm 100K$
Operating temperature range	-40 to $+85^\circ C$
Thermal time constant	30s max.[in still water]
Heat dissipation constant	$2.5mW/^\circ C$ [in still air]

- Please contact us for the other specified(nominal resistance value and B constant) products.



PLASTIC CASE TYPE

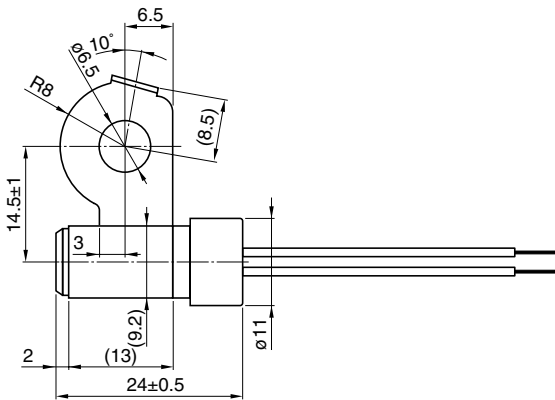
FEATURES

- High heat resistance.
- Excellent oil resistance.

APPLICATIONS: OIL TEMPERATURE DETECTION(AUTOMATIC GEARBOX)

PART NO.: NTCDP3LG252HGHBEA

SHAPES AND DIMENSIONS



APPLICATIONS

Mission oil, oil heater for automobiles

CHARACTERISTICS

Nominal resistance	$R_{20}=2.5k\Omega \pm 3\% [20^\circ C]$
B constant	$B_{20/80}=3520K \pm 2\%$
Operating temperature range	-40 to $+165^\circ C$
Thermal time constant	60s max.[in still oil]
Heat dissipation constant	$5mW/^\circ C$ [in still air]

- Please contact us for the other specified(nominal resistance value and B constant) products.

