



# NTC THERMISTORS: TYPE NDP

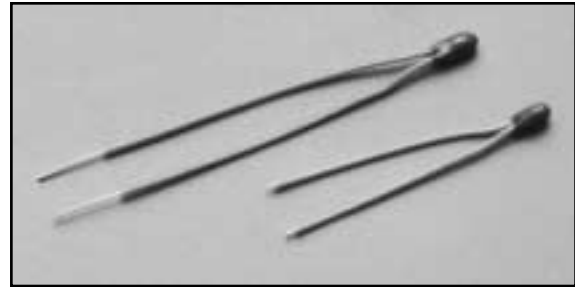
## EPOXY COATED CHIP THERMISTOR

### DESCRIPTION:

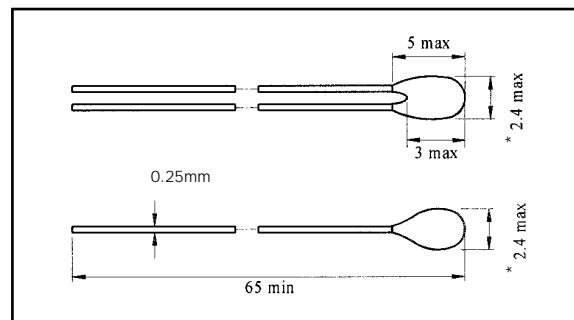
A range of epoxy coated chips with insulated 0.25mm monel lead-wires.

### FEATURES:

- Designed for accurate temperature measurement, control & compensation
- Tight tolerances on resistance and B value
- Operation up to 155°C with excellent stability
- Small body size
- Fast response
- Limited heat conduction along monel (copper nickel) lead-wires
- Epoxy resin provides voltage insulation
- Suitable for automotive, HVAC & white goods applications



### DIMENSIONS:



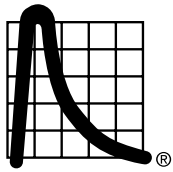
\*Diameter will be 2.8mm max for NDP103C4-types

### OPTIONS:

- Other resistance values within the ranges shown e.g. code NDP 152C2R1 for 1500  $\pm 1\%$  at 25°C in the range of 0°C up to the maximum operating temperature
- Reference temperatures
- Wire lengths 30 to 600mm ( $\pm 1\text{mm}$  or  $\pm 2\%$ , whichever is the greater)
- Other wire materials
- Other wire insulation colors

### DATA:

**Minimum operating temperature** ..... -40°C  
**Thermal time constant:** ..... < 20s  
**Dissipation factor** ..... 1.5mW/K  
**Voltage insulation** ..... 500V d.c.  
**Wire insulation** ..... cadmium free red PTFE  
**Packing** ..... 500/box



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R25	Material System	B 25/85 K	Maximum Temp. °C	Code		Code		Code	
				R25 ± 1%	R25 ± 2%	R25 ± 3%	R25 ± 5%	R25 ± 10%	
1000	2	3540 ± 1%	125	NDP102C2R1	NDP102C2R2	NDP102C2R3	NDP102C2R5	NDP102C2R10	
2000	2	3540 ± 1%	125	NDP202C2R1	NDP202C2R2	NDP202C2R3	NDP202C2R5	NDP202C2R10	
5000	2	3540 ± 1%	125	NDP502C2R1	NDP502C2R2	NDP502C2R3	NDP502C2R5	NDP502C2R10	
1000	2A	3627 ± 1%	125	NDP102C2AR1	NDP102C2AR2	NDP102C2AR3	NDP102C2AR5	NDP102C2AR10	
2000	2A	3627 ± 1%	125	NDP202C2AR1	NDP202C2AR2	NDP202C2AR3	NDP202C2AR5	NDP202C2AR10	
5000	2A	3627 ± 1%	125	NDP502C2AR1	NDP502C2AR2	NDP502C2AR3	NDP502C2AR5	NDP502C2AR10	
2700	1	3977 ± 0.75%	155	NDP272C1R1	NDP272C1R2	NDP272C1R3	NDP272C1R5	NDP272C1R10	
5000	1	3977 ± 0.75%	155	NDP502C1R1	NDP502C1R2	NDP502C1R3	NDP502C1R5	NDP502C1R10	
10000	1	3977 ± 0.75%	155	NDP103C1R1	NDP103C1R2	NDP103C1R3	NDP103C1R5	NDP103C1R10	
30000	1	3977 ± 0.75%	155	NDP303C1R1	NDP303C1R2	NDP303C1R3	NDP303C1R5	NDP303C1R10	
50000	1	3977 ± 0.75%	155	NDP503C1R1	NDP503C1R2	NDP503C1R3	NDP503C1R5	NDP503C1R10	
2700	3	3960 ± 1%	155	NDP272C3R1	NDP272C3R2	NDP272C3R3	NDP272C3R5	NDP272C3R10	
5000	3	3960 ± 1%	155	NDP502C3R1	NDP502C3R2	NDP502C3R3	NDP502C3R5	NDP502C3R10	
10000	3	3960 ± 1%	155	NDP103C3R1	NDP103C3R2	NDP103C3R3	NDP103C3R5	NDP103C3R10	
30000	3	3960 ± 1%	155	NDP303C3R1	NDP303C3R2	NDP303C3R3	NDP303C3R5	NDP303C3R10	
50000	3	3960 ± 1%	155	NDP503C3R1	NDP503C3R2	NDP503C3R3	NDP503C3R5	NDP503C3R10	
12000	5	3740 ± 5%	125	NDP123C5R1	NDP123C5R2	NDP123C5R3	NDP123C5R5	NDP104C5R10	
10000	4	3435 ± 1%	110	NDP103C4R1	NDP103C4R2	NDP103C4R3	NDP103C4R5	NDP103C4R10	
30000	4	3435 ± 1%	110	NDP303C4R1	NDP303C4R2	NDP303C4R3	NDP303C4R5	NDP303C4R10	
50000	4	3435 ± 1%	110	NDP503C4R1	NDP503C4R2	NDP503C4R3	NDP503C4R5	NDP503C4R10	
100000	4	3435 ± 1%	110	NDP104C4R1	NDP104C4R2	NDP104C4R3	NDP104C4R5	NDP104C4R10	

See separate tables for resistance - temperature data

**BOWTHORPE THERMOMETRICS**  
 Crown Industrial Estate, Priorswood Road  
 Taunton, Somerset TA2 8QY UK  
 Tel +44 (0) 1823 335200  
 Fax +44 (0) 1823 332637

**THERMOMETRICS, INC.**  
 808 US Highway 1  
 Edison, New Jersey 08817-4695 USA  
 Tel +1 (732) 287 2870  
 Fax +1 (732) 287 8847

**KEYSTONE THERMOMETRICS CORPORATION**  
 967 Windfall Road  
 St. Marys, Pennsylvania 15857-3397 USA  
 Tel +1 (814) 834 9140  
 Fax +1 (814) 781 7969