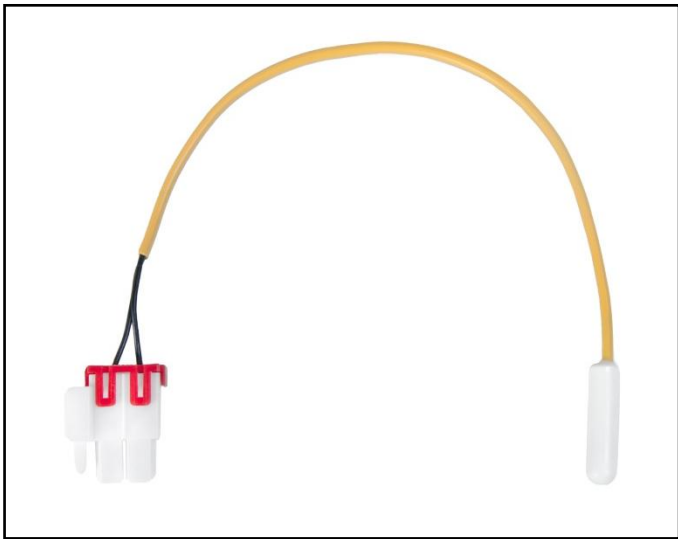


NTC Thermistor Assembly for Plastic Tube Type



■ FEATURE

- Use of Thermistors with UL-Approval
- Strong resistance to moisture/cold.
- Highly durable and provides stable performance for a long time
- Rohs Compliance

■ APPLICATIONS

- Refrigerator, Water purifier. etc

■ ELECTRICAL DATA

Resistance	$R(0^{\circ}\text{C}) = 13.29\text{k}\Omega \pm 2\%$
B constant	$B(0^{\circ}\text{C}/50^{\circ}\text{C}) = 3222\text{K} \pm 1\%$
Insulation resistance	Over 100M Ω at 500V DC (heat sensing portion in water, between water and lead wires)
Dielectric strength	1500V AC for one minute or 1800V AC for one second, without failure (heat sensing section in water, between water and lead wires; cut-off current 1mA.)
Thermal time constant	τ = less than 20~30 seconds (in agitated water)
Thermal dissipation constant	σ = approximately 2.5mW/ $^{\circ}\text{C}$ (in still air)
Operating temperature range	-40 to +105 $^{\circ}\text{C}$

■ DIMENSION [unit:mm]

A	250 ± 10
B	7.0 ± 0.1
C	25.0 ± 1.0
D	Connectors : 35965-0200 (Molex)

R-T DATA

RESISTANCE : 13.29kΩ at 0℃	RESISTANCE TOLERANCE : ±2.0%
B VALUE : 3222 K (0/50)	B VALUE TOLERANCE : ±1.0%

T(℃)	Rmin(kΩ)	Rcent(kΩ)	Rmax(kΩ)	DR(%)	DT(℃)
-40	84.697	88.075	91.552	3.95%	0.73
-35	65.358	67.787	70.279	3.68%	0.71
-30	50.825	52.581	54.375	3.41%	0.67
-25	39.818	41.092	42.390	3.16%	0.64
-20	31.419	32.347	33.289	2.91%	0.61
-15	24.964	25.641	26.327	2.67%	0.58
-10	19.968	20.464	20.963	2.44%	0.54
-5	16.076	16.439	16.804	2.22%	0.51
0	13.024	13.290	13.556	2.00%	0.48
5	10.572	10.810	11.049	2.21%	0.55
10	8.633	8.845	9.059	2.42%	0.62
15	7.090	7.279	7.469	2.62%	0.69
20	5.856	6.023	6.192	2.81%	0.76
25	4.862	5.009	5.160	3.00%	0.83
30	4.057	4.188	4.321	3.18%	0.91
35	3.402	3.518	3.636	3.36%	0.99
40	2.866	2.969	3.074	3.54%	1.07
45	2.426	2.517	2.610	3.71%	1.15
50	2.062	2.142	2.225	3.88%	1.23
55	1.759	1.831	1.905	4.04%	1.32
60	1.507	1.571	1.637	4.20%	1.40
65	1.297	1.354	1.413	4.36%	1.49
70	1.119	1.170	1.223	4.51%	1.58
75	0.9698	1.015	1.063	4.66%	1.68
80	0.8433	0.8841	0.9266	4.80%	1.77
85	0.7358	0.7725	0.8107	4.94%	1.87
90	0.6443	0.6773	0.7117	5.08%	1.98
95	0.5661	0.5958	0.6269	5.22%	2.08
100	0.4990	0.5258	0.5540	5.35%	2.19
105	0.4412	0.4656	0.4911	5.48%	2.30

DK SENSOR CO.,LTD.

Headquarters : 45, Gasan digital 1-ro, Geumcheon-gu
Seoul, KOREA

dksensor@dksksensor.com