

Data Sheet

Customer:

Product: Lead Wire NTCD Thermistor

Sizes.: 05 / 07 / 09 / 11 / 13 / 15 / 20

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Lead Wire NTCD Thermistor



Scope

— This is a negative temperature coefficient resistor, its resistance value decreases with the increase of the ambient temperature, this kind of thermistor is made by manganese, nickel, copper, cobalt and iron two or more kinds of metal oxides after forming and sintering at high temperature (about 1100°C -1400°C), the NTC thermistor series for the suppression of inrush current plug-in type.

Features

- Small size, large power, strong ability to inhibit inrush current
- Fast reaction time
- High in B value and low in residual current; long service life and high reliability; High coefficient of safety and wide range of application

Applications

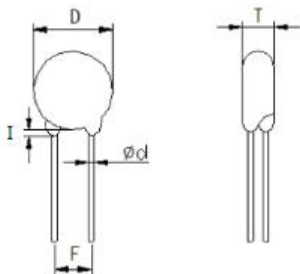
— Conversion power supply, switch power, UPS power, Kinds of electric heter, electronic energy-saving lamps, electronic ballast etc all kinds of power circuit protection of electronic equipments, filament protection of CRT, bulb and other lighting lamps.

Safety Certification

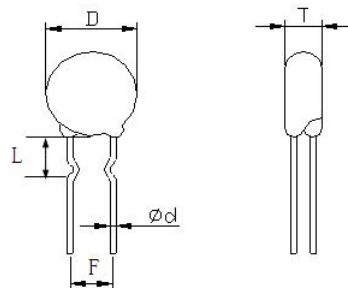
— TUV recognized

Dimensions

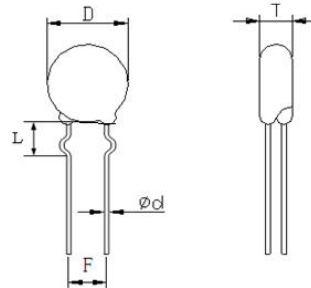
S Type(Straight)



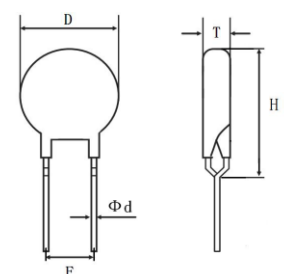
I Type(Inside Kink)



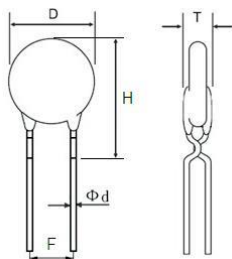
O Type(Outside Kink)



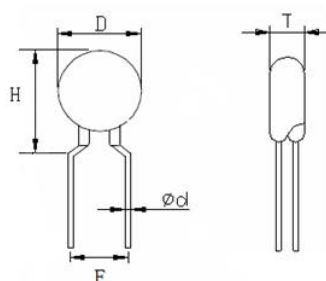
Y Type(Vertical Kink)



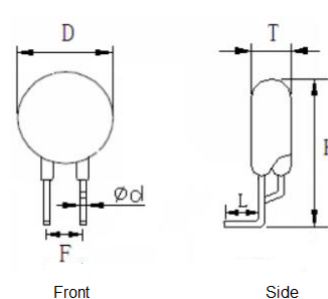
H Type(Side Kink)



L Type(Narrow Mouthed)



P Type



Unit: mm

Type	Lead Type	D Max.	F	d	I Max.	T Max.	L	H Max.
NTCD05	S type	6.5	5.0±0.5	0.6±0.05	2.0	5.0	-	-
	I type	6.5	5.0±0.5	0.6±0.05	-	5.0	5.0±2.0	-
	O type	6.5	5.0±0.5	0.6±0.05	-	5.0	5.0±2.0	-
	Y type	6.5	5.0±0.5	0.6±0.05	-	5.0	-	11.0
	L type	6.5	5.0±0.5	0.6±0.05	-	5.0	-	9.0
	P type	6.5	5.0±0.5	0.6±0.05	-	5.0	3.5±0.5	12.0

Unit: mm

Type	Lead Type	D Max.	F	d	I Max.	T Max.	L	H Max.
NTCD07	S type	8.5	5.0±0.5	0.6±0.05	2.0	5.0	-	-
	I type	8.5	5.0±0.5	0.6±0.05	-	5.0	5.0±2.0	-
	O type	8.5	5.0±0.5	0.6±0.05	-	5.0	5.0±2.0	-
	Y type	8.5	5.0±0.5	0.6±0.05	-	5.0	-	13.0
	P type	8.5	5.0±0.5	0.6±0.05	-	5.0	3.5±0.5	14.0
NTCD09	S type	9.5	7.5±0.5	0.8±0.05	2.5	5.0	-	-
	I type	9.5	7.5±0.5	0.8±0.05	-	5.0	5.0±2.0	-
	O type	9.5	7.5±0.5	0.8±0.05	-	5.0	5.0±2.0	-
	Y type	9.5	7.5±0.5	0.8±0.05	-	5.0	-	15.0
	H type	9.5	7.5±0.5	0.8±0.05	-	5.0	-	15.0
	P type	9.5	7.5±0.5	0.8±0.05	-	5.0	3.5±0.5	15.0
NTCD11	S type	11.5	7.5±0.5	0.8±0.05	3.0	5.0	-	-
	I type	11.5	7.5±0.5	0.8±0.05	-	5.0	5.0±2.0	-
	O type	11.5	7.5±0.5	0.8±0.05	-	5.0	5.0±2.0	-
	Y type	11.5	7.5±0.5	0.8±0.05	-	5.0	-	17.0
	H type	11.5	7.5±0.5	0.8±0.05	-	5.0	-	17.0
	P type	11.5	7.5±0.5	0.8±0.05	-	5.0	3.5±0.5	17.0
NTCD13	S type	14.5	7.5±0.5	0.8±0.05	3.0	6.0	-	-
	I type	14.5	7.5±0.5	0.8±0.05	-	6.0	5.0±2.0	-
	O type	14.5	7.5±0.5	0.8±0.05	-	6.0	5.0±2.0	-
	Y type	14.5	7.5±0.5	0.8±0.05	-	6.0	-	20.0
	H type	14.5	7.5±0.5	0.8±0.05	-	6.0	-	20.0
	P type	14.5	7.5±0.5	0.8±0.05	-	6.0	3.5±0.5	20.0
NTCD15	S type	16.5	7.5±0.5	0.8±0.05	3.5	6.0	-	-
	I type	16.5	7.5±0.5	0.8±0.05	-	6.0	5.0±2.0	-
	O type	16.5	7.5±0.5	0.8±0.05	-	6.0	5.0±2.0	-
	Y type	16.5	7.5±0.5	0.8±0.05	-	6.0	-	22.0
	H type	16.5	7.5±0.5	0.8±0.05	-	6.0	-	22.0
	P type	16.5	7.5±0.5	0.8±0.05	-	6.0	3.5±0.5	22.0
NTCD20	S type	22.0	10.0±1.0	1.0±0.05	3.5	7.0	-	-
	I type	22.0	10.0±1.0	1.0±0.05	-	7.0	5.0±2.0	-
	O type	22.0	10.0±1.0	1.0±0.05	-	7.0	5.0±2.0	-
	Y type	22.0	10.0±1.0	1.0±0.05	-	7.0	-	28.0
	H type	22.0	10.0±1.0	1.0±0.05	-	7.0	-	28.0
	P type	22.0	10.0±1.0	1.0±0.05	-	7.0	3.5±0.5	28.0

Part Numbering

NTCD	20	M	B	SU	11	1R0	B
Product Type	Disc Diameter	Resistance Tolerance	Packaging Code	Lead Type & Lead Material	Lead Wire Diameter (dxF)	Resistance (25)	Coating Color
	05: 5mm 07: 7mm 09: 9mm 11: 11mm 13: 13mm 15: 15mm 20: 20mm	K: ±10% L: ±15% M: ±20%	A: Ammo B: Bulk	SE: S type & C.P wire SU: S type & Tin copper wire IE: I type & C.P wire IU: I type & Tin copper wire OE: O type & C.P wire OU: O type & Tin copper wire YE: Y type & C.P wire YU: Y type & Tin copper wire HE: H type & C.P wire HU: H type & Tin copper wire LE: L type & C.P wire LU: L type & Tin copper wire P: P type & C.P wire PU: P type & Tin copper wire	65: 0.6x5.0mm 87: 0.8x7.5mm 11: 1.0x10.0mm	1R0: 1Ω 100: 10Ω 101: 100Ω	B: Black G: Green

■Electrical Specifications
NTCD05

Codes	Resistance (25°C) (Ω)	Tolerance	@25°C Max. Steady Current (A)	@25°C Approx R of Max. Current (Ω)	@240 VAC Max. Allowable Capacitance (uF)	B Value (K)	Power Dissipation Coefficient (mW/°C)	Time Constant (sec)	Max. Power Rating (W)	Operating Temperature Range (°C)
4R0	4	±10, 15, 20%	2	0.415	100	2500	15	17	1.8	-40~150
5R0	5	±10, 15, 20%	2	0.429	100	2600				
6R0	6	±10, 15, 20%	2	0.458	100	2600				
8R0	8	±10, 15, 20%	1	1.089	100	2600				
9R0	9	±10, 15, 20%	1	1.112	100	2600				
100	10	±10, 15, 20%	1	1.126	100	2600				
120	12	±10, 15, 20%	1	1.184	100	2600				
150	15	±10, 15, 20%	1	1.202	100	2600				
160	16	±10, 15, 20%	0.7	1.253	100	2600				
200	20	±10, 15, 20%	0.6	1.275	100	2700				
220	22	±10, 15, 20%	0.6	1.313	68	2700				
300	30	±10, 15, 20%	0.5	1.429	68	2800				
330	33	±10, 15, 20%	0.5	1.466	68	2800				
500	50	±10, 15, 20%	0.5	1.727	68	2800				
600	60	±10, 15, 20%	0.5	1.878	68	2800				

NTCD07

Codes	Resistance (25°C) (Ω)	Tolerance	@25°C Max. Steady Current (A)	@25°C Approx R of Max. Current (Ω)	@240 VAC Max. Allowable Capacitance (uF)	B Value (K)	Power Dissipation Coefficient (mW/°C)	Time Constant (sec)	Max. Power Rating (W)	Operating Temperature Range (°C)
2R5	2.5	±10, 15, 20%	3	0.205	100	2500	16	27	2.0	-40~150
3R0	3	±10, 15, 20%	2.3	0.245	100	2600				
3R3	3.3	±10, 15, 20%	2.3	0.245	100	2600				
4R7	4.7	±10, 15, 20%	2.3	0.259	100	2700				
5R0	5	±10, 15, 20%	2.3	0.273	100	2700				
8R0	8	±10, 15, 20%	2	0.436	100	2700				
100	10	±10, 15, 20%	1.5	0.572	100	2700				
120	12	±10, 15, 20%	1.5	0.745	100	2700				
150	15	±10, 15, 20%	1.5	0.846	100	2700				
160	16	±10, 15, 20%	1.5	0.897	100	2700				
200	20	±10, 15, 20%	0.8	0.995	100	2800				
220	22	±10, 15, 20%	0.8	1.096	100	2800				
300	30	±10, 15, 20%	0.7	1.345	100	2900				
330	33	±10, 15, 20%	0.7	1.475	100	2900				

NTCD09

Codes	Resistance (25℃) (Ω)	Tolerance	@25℃ Max. Steady Current (A)	@25℃ Approx R of Max. Current (Ω)	@240 VAC Max. Allowable Capacitance (uF)	B Value (K)	Power Dissipation Coefficient (mW/℃)	Time Constant (sec)	Max. Power Rating (W)	Operating Temperature Range (℃)
1R5	1.5	±10, 15, 20%	4	0.145	150	2500	16	38	2.3	-40~170
2R0	2.0	±10, 15, 20%	4	0.145	150	2500				
2R5	2.5	±10, 15, 20%	4	0.145	150	2600				
3R0	3	±10, 15, 20%	4	0.150	150	2600				
4R0	4	±10, 15, 20%	3	0.190	220	2600				
4R7	4.7	±10, 15, 20%	3	0.246	220	2700				
5R0	5	±10, 15, 20%	3	0.261	220	2700				
6R0	6	±10, 15, 20%	3	0.283	220	2700				
7R0	7	±10, 15, 20%	3	0.287	220	2700				
8R0	8	±10, 15, 20%	2.2	0.520	220	2700				
100	10	±10, 15, 20%	2	0.542	220	2700				
120	12	±10, 15, 20%	2	0.545	220	2800				
150	15	±10, 15, 20%	2	0.548	150	2800				
160	16	±10, 15, 20%	2	0.570	150	2800				
200	20	±10, 15, 20%	1	0.864	150	2800				
220	22	±10, 15, 20%	1	0.950	150	2800				
250	25	±10, 15, 20%	1	0.986	100	2900				
300	30	±10, 15, 20%	1	1.022	100	2900				
330	33	±10, 15, 20%	1	1.124	100	2900				
500	50	±10, 15, 20%	1	1.252	100	2900				
600	60	±10, 15, 20%	0.8	1.502	100	3000				
800	80	±10, 15, 20%	0.8	2.010	100	3000				
101	100	±10, 15, 20%	0.8	2.516	100	3000				
121	120	±10, 15, 20%	0.8	3.015	100	3000				
201	200	±10, 15, 20%	0.5	5.007	100	3100				
301	300	±10, 15, 20%	0.5	6.105	100	3200				

NTCD11

Codes	Resistance (25℃) (Ω)	Tolerance	@25℃ Max. Steady Current (A)	@25℃ Approx R of Max. Current (Ω)	@240 VAC Max. Allowable Capacitance (uF)	B Value (K)	Power Dissipation Coefficient (mW/℃)	Time Constant (sec)	Max. Power Rating (W)	Operating Temperature Range (℃)
1R0	1.0	±10, 15, 20%	5	0.091	470	2500	17	43	2.4	-40~170
1R3	1.3	±10, 15, 20%	5	0.110	470	2500				
1R5	1.5	±10, 15, 20%	5	0.120	470	2500				
2R0	2.0	±10, 15, 20%	5	0.120	470	2500				
2R5	2.5	±10, 15, 20%	5	0.120	470	2600				
3R0	3	±10, 15, 20%	5	0.127	560	2600				
4R0	4	±10, 15, 20%	4	0.161	560	2700				
5R0	5	±10, 15, 20%	4	0.180	470	2700				
6R8	6.8	±10, 15, 20%	3	0.270	330	2700				
8R0	8	±10, 15, 20%	3	0.278	330	2800				
100	10	±10, 15, 20%	3	0.297	330	2800				
120	12	±10, 15, 20%	3	0.301	470	2800				
130	13	±10, 15, 20%	3	0.356	330	2800				
150	15	±10, 15, 20%	2.5	0.442	330	2800				
160	16	±10, 15, 20%	2.5	0.471	330	2800				
200	20	±10, 15, 20%	2	0.646	330	2900				
220	22	±10, 15, 20%	2	0.659	330	2900				
250	25	±10, 15, 20%	2	0.674	330	2900				
300	30	±10, 15, 20%	2	0.700	330	2900				
330	33	±10, 15, 20%	2	0.708	330	3000				
470	47	±10, 15, 20%	2	0.720	330	3000				
500	50	±10, 15, 20%	2	0.813	330	3000				
600	60	±10, 15, 20%	1.5	1.215	220	3000				
800	80	±10, 15, 20%	1.2	1.656	220	3100				
101	100	±10, 15, 20%	1.2	2.218	220	3100				
121	120	±10, 15, 20%	1.2	2.330	220	3100				

NTCD13

Codes	Resistance (25℃) (Ω)	Tolerance	@25℃ Max. Steady Current (A)	@25℃ Approx R of Max. Current (Ω)	@240 VAC Max. Allowable Capacitance (uF)	B Value (K)	Power Dissipation Coefficient (mW/℃)	Time Constant (sec)	Max. Power Rating (W)	Operating Temperature Range (℃)
1R0	1.0	±10, 15, 20%	7	0.088	560	2600	18	66	3.1	-40~200
1R3	1.3	±10, 15, 20%	7	0.094	560	2600				
1R5	1.5	±10, 15, 20%	6	0.084	560	2600				
2R5	2.5	±10, 15, 20%	6	0.094	560	2700				
3R0	3	±10, 15, 20%	6	0.104	560	2700				
4R0	4	±10, 15, 20%	5	0.132	560	2700				
4R7	4.7	±10, 15, 20%	5	0.158	560	2800				
5R0	5	±10, 15, 20%	5	0.166	560	2800				
6R0	6	±10, 15, 20%	4	0.177	470	2800				
7R0	7	±10, 15, 20%	4	0.184	470	2800				
8R0	8	±10, 15, 20%	4	0.206	470	2800				
100	10	±10, 15, 20%	4	0.217	470	2900				
120	12	±10, 15, 20%	4	0.230	560	290				
150	15	±10, 15, 20%	3	0.343	560	2900				
160	16	±10, 15, 20%	3	0.348	560	2900				
180	18	±10, 15, 20%	3	0.365	560	2900				
200	20	±10, 15, 20%	3	0.410	470	3000				
220	22	±10, 15, 20%	3	0.453	470	3000				
300	30	±10, 15, 20%	2.5	0.517	470	3000				
330	33	±10, 15, 20%	2.5	0.554	470	3100				
470	47	±10, 15, 20%	2.5	0.663	470	3100				
600	60	±10, 15, 20%	2	1.002	470	3200				
121	120	±10, 15, 20%	1.5	2.124	470	3300				

NTCD15

Codes	Resistance (25℃) (Ω)	Tolerance	@25℃ Max. Steady Current (A)	@25℃ Approx R of Max. Current (Ω)	@240 VAC Max. Allowable Capacitance (uF)	B Value (K)	Power Dissipation Coefficient (mW/℃)	Time Constant (sec)	Max. Power Rating (W)	Operating Temperature Range (℃)
0R7	0.7	±10, 15, 20%	8	0.055	680	2600	21	75	3.6	-40~200
1R0	1.0	±10, 15, 20%	9	0.060	680	2600				
1R3	1.3	±10, 15, 20%	8	0.064	680	2600				
1R5	1.5	±10, 15, 20%	8	0.068	820	2600				
2R0	2.0	±10, 15, 20%	8	0.078	680	2600				
2R2	2.2	±10, 15, 20%	8	0.083	680	2600				
2R5	2.5	±10, 15, 20%	8	0.086	680	2700				
3R0	3	±10, 15, 20%	7	0.091	820	2700				
4R0	4	±10, 15, 20%	6	0.117	820	2800				
5R0	5	±10, 15, 20%	6	0.121	820	2800				
6R0	6	±10, 15, 20%	5	0.159	680	2800				
7R0	7	±10, 15, 20%	5	0.161	820	2900				
8R0	8	±10, 15, 20%	5	0.165	680	2900				
100	10	±10, 15, 20%	5	0.178	820	2900				
120	12	±10, 15, 20%	5	0.185	680	2900				
150	15	±10, 15, 20%	4	0.261	820	3000				
160	16	±10, 15, 20%	4	0.265	820	3000				
180	18	±10, 15, 20%	4	0.273	680	3000				
200	20	±10, 15, 20%	4	0.283	820	3000				
220	22	±10, 15, 20%	4	0.308	560	3000				
250	25	±10, 15, 20%	3.5	0.398	680	3100				
300	30	±10, 15, 20%	3.5	0.425	680	3100				
330	33	±10, 15, 20%	3.5	0.454	560	3100				
400	40	±10, 15, 20%	3	0.511	680	3100				
470	47	±10, 15, 20%	3	0.517	680	3200				
800	80	±10, 15, 20%	2.5	0.693	560	3300				
121	120	±10, 15, 20%	2	1.010	560	3500				

NTCD20

Codes	Resistance (25℃) (Ω)	Tolerance	@25℃ Max. Steady Current (A)	@25℃ Approx R of Max. Current (Ω)	@240 VAC Max. Allowable Capacitance (uF)	B Value (K)	Power Dissipation Coefficient (mW/℃)	Time Constant (sec)	Max. Power Rating (W)	Operating Temperature Range (℃)
1R0	1.0	±10, 15, 20%	13	0.035	1000	2600	28	113	4.9	-40~200
1R3	1.3	±10, 15, 20%	11	0.037	1000	2600				
1R5	1.5	±10, 15, 20%	10.5	0.041	1000	2600				
2R0	2.0	±10, 15, 20%	10	0.062	1000	2700				
2R5	2.5	±10, 15, 20%	9	0.073	1000	2800				
3R0	3	±10, 15, 20%	8.5	0.078	1000	2800				
4R0	4	±10, 15, 20%	8	0.080	1000	2900				
4R7	4.7	±10, 15, 20%	7.5	0.114	1000	2900				
5R0	5	±10, 15, 20%	7.5	0.118	1000	2900				
6R0	6	±10, 15, 20%	7	0.120	1000	2900				
6R8	6.8	±10, 15, 20%	6.5	0.130	1000	2900				
7R0	7	±10, 15, 20%	6.5	0.132	1000	2900				
8R0	8	±10, 15, 20%	6	0.161	1000	3000				
100	10	±10, 15, 20%	6	0.162	1000	3000				
120	12	±10, 15, 20%	5.5	0.180	1000	3000				
130	13	±10, 15, 20%	5.5	0.195	1000	3000				
150	15	±10, 15, 20%	5	0.205	1000	3100				
160	16	±10, 15, 20%	5	0.212	1000	3100				
180	18	±10, 15, 20%	4.5	0.260	1000	3100				
200	20	±10, 15, 20%	4.5	0.275	1000	3100				
250	25	±10, 15, 20%	4	0.365	1000	3100				
300	30	±10, 15, 20%	4	0.398	1000	3200				
470	47	±10, 15, 20%	4	0.497	1000	3300				

■ Environmental Characteristics

Item	Requirement	Test Method						
Tensile Strength of Lead Wire Terminal	Resistance change: within ±10% No break out and damage	The load is gradually applied to each terminal of Thermistor until the force of the following table in the axial direction with fixing Thermistor body itself and this load is kept for 10±1 sec. <table><tr><td>Terminal diameter(mm)</td><td>Force(N)</td></tr><tr><td>0.5<d≤0.8</td><td>10</td></tr><tr><td>0.8<d≤1.25</td><td>20</td></tr></table>	Terminal diameter(mm)	Force(N)	0.5<d≤0.8	10	0.8<d≤1.25	20
Terminal diameter(mm)	Force(N)							
0.5<d≤0.8	10							
0.8<d≤1.25	20							
Bending Strength of Lead Wire Terminal	Lead wire does not come off Resistance change: within ±10%	Thermistor is held so that it is perpendicular to the lead wire with the following lead hanging in the axial direction of the lead wire. The lead wire is slowly bent to 90° and returned. Then it is slowly bent in the opposite direction and returned to original state. <table><tr><td>Terminal diameter(mm)</td><td>Force(N)</td></tr><tr><td>0.5<d≤0.8</td><td>5</td></tr><tr><td>0.8<d≤1.25</td><td>10</td></tr></table>	Terminal diameter(mm)	Force(N)	0.5<d≤0.8	5	0.8<d≤1.25	10
Terminal diameter(mm)	Force(N)							
0.5<d≤0.8	5							
0.8<d≤1.25	10							
Vibration	No substantial damage	Frequency:10~55 Hz Amplitude modulation:0.75 mm Dirction and time:X、 Y and Z direction for 2 hrs each						
Solderability	Covered termination: ≥95%	Temperature: 245±5 Time: 3±0.5 s						
Resistance to Soldering Heat	Resistance change: within ±10%	The leadwinres shall be dipped in a molten solder of 260±5℃ for 10 ±1 seconds up to the point 4.0 ±0.8mm.after the specimen shall be left at room ambient temperature for 24 hours, the resistance shall be measured						
High Temperature Storage	Resistance change: within ±20%	150±2℃ for 1000+48 hrs						
Low Temperature Storage	Resistance change: within ±20%	Specimen shall be subjected to an ambient of -40±3℃ For 1000+48 hours. and after the specimen shall be left at room ambient for 1 to 2 hours, the resistance shall be measured						
Humidity	Resistance change: within ±20%	40±2℃,90~95% R.H. for 1000 hrs						
Temperature Cycle	Resistance change: within ±20%	-40℃/30min ->25℃/5min->+150℃/30min->25℃/5min 5 cycles						
Endurance	Resistance change: within ±20%	At room temperature with the maximum current applied for 1000 cycles.(on-time=1 minute, off-time=5 minutes) and the resistance value shall be measured.						
Max Current	Resistance change: within ±20%	①25±5℃ , I _{max} , 1min ON / 5 min OFF x100 0 times ②25±5℃ , I _{max} ,1000h						

■ Storage Temperature: $50 \sim 30^\circ\text{C}$; Humidity $20 \sim 75\% \text{RH}$

■ Period of Storage : 1 year

Taping/Packaging Specifications

Packing Methods

Fig. 1

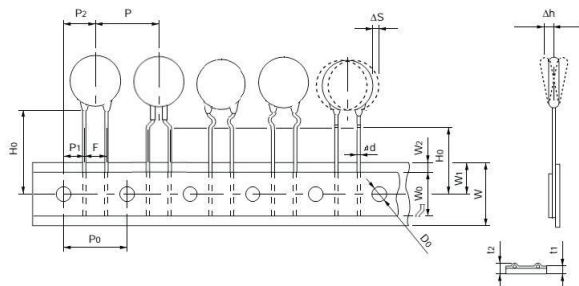


Fig. 2

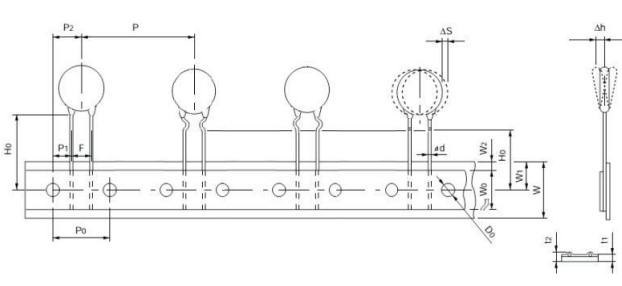
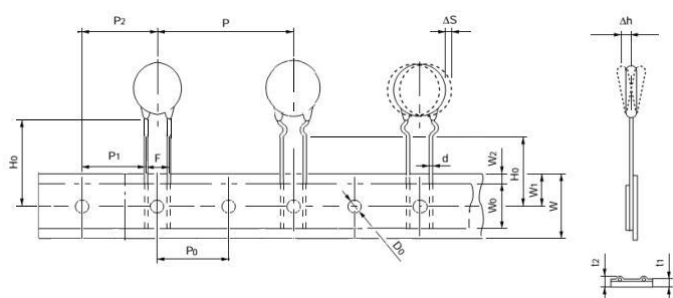


Fig. 3



Unit: mm

Type Item	Fig 1							Fig 2	Fig 3	
	NTCD0 5	NTCD0 7	NTCD0 9	NTCD09	NTCD11	D11	D13	D15	NTCD15	NTCD20
P0	12.7±0.3			15.0±0.5	12.7±0.3	15.0±0.5		15.0±0.5	12.7±0.5	
P1	3.85±0.7			3.75±0.7	3.85±0.7	3.75±0.7		3.75±0.7	8.95±0.7	
P2	6.35±1.3			7.5±1.5	6.35±1.3	7.5±1.5		7.5±1.5	12.7±1.3	
P	12.7±1.0			15.0±1.0	12.7±1.0	15.0±1.0		30.0±1.0	25.4±1.0	
H0	16.0±1.0							16.0±1.0	16.0±1.0	
F	5.0±0.5			7.5±0.5	5.0±0.5	7.5±0.5		7.5±0.5	7.5±1.0 10.0±1.0	
d	0.6±0.05		0.8±0.05	0.8±0.05	0.8±0.05			0.8±0.05	0.8±0.05	1.0±0.05
D0	4.0±0.2							4.0±0.2	4.0±0.2	
W0	10min							12.5min	12.5min	
W1	9.0±0.5							9.0±0.5	9.0±0.5	
W2	3max							3max	3max	
W	18.0+1.0/-0.5							18.0+1.0/ -0.5	18.0+1.0/-0.5	
ΔS	2.0max							2.0max	2.0max	
Δh	2.0max							2.0ma	2.0max	
t1	0.6±0.2							0.6±0.2	0.6±0.2	
t2	1.6max							1.6max	2.0max	
Ammo Package	1,500	1,500	1,500	1,000	1,500	1,000	1,000	800	800	500

Packing Quantity

Type	Bulk Package
NTCD05	1,000
NTCD07	1,000
NTCD09	500
NTCD11	500
NTCD13	400
NTCD15	300
NTCD20	200