

NTC Series

Description

This is a Negative Temperature Coefficient Resistor Whose resistance changes with ambient temperature changes. Thermistor comprises 2 or 4 kinds of metal oxides of iron, nickel, cobalt, manganese and copper, being shaped and Sintered at high temperature(1200°C to 1500°C)

Features

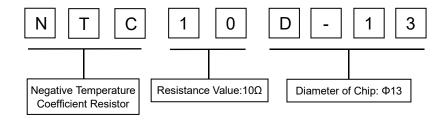
- Small size, large power, strong capacity of suppression of inrush current
- Fast resporse
- Big material constant(B value), small residual resistance
- Long life and high reliability
- Complete series, wide applications



Applications

- Switching power-supply, switch power ,ups power
- Electronic energy saving lamps electronic ballast and all kinds of electric heater
- All kinds of RT, display
- Bulb and other lighting lamps

Part Number Code



Materials

Item	name
Wrapper	Modified phenolic resin
Down-lead	CP Wire
Coating color	Black



NTC Series

Parameters of Technology

Model Ros Max. steady (A) Residual common (C) Designation (mw°C) mean (mw°C) mean (mw°C) Max. allowable capacity subject (apacity) B (N) Poperature Temperature (TC) NTC8D-5 8 0.7 0.77 =6 =20 150/560 2700 NTC10D-5 10 0.7 0.77 =6 =20 150/560 2700 NTC20D-5 20 0.5 0.997 =6 =20 39/150 2800 NTC3D-7 5 2 0.28 =9 =30 100/390 2700 NTC8D-7 8 1 0.54 =9 =30 100/390 2700 NTC10D-7 10 1 0.62 =9 =30 100/390 2700 NTC10D-7 10 0.6 1.11 =9 =30 82/330 2800 NTC10D-7 20 0.6 1.11 =9 =30 82/330 2800 NTC3D-7 20 0.6 1.11 =9 =30 <th colspan="9"></th>									
NTC8D-5 8 0.7 0.77 ≈6 ≈20 100/390 2700 NTC10D-5 10 0.7 0.77 ≈6 ≈20 68/270 2700 NTC20D-5 20 0.5 0.997 ≈6 ≈20 39/150 2800 NTC3D-7 5 2 0.28 ≈9 ≈30 100/390 2700 NTC5D-7 5 2 0.28 ≈9 ≈30 100/390 2700 NTC10D-7 10 1 0.62 ≈9 ≈30 100/390 2700 NTC10D-7 10 1 0.62 ≈9 ≈30 100/390 2700 NTC10D-7 10 1 0.62 ≈9 ≈30 82/330 2800 NTC10D-7 16 0.7 1.00 ≈9 ≈30 82/330 2800 NTC2D-7 20 0.6 1.11 ≈9 ≈30 68/270 2800 NTC3D-7 3 0.5 1.49	Model		State current	Resistance	factor	Constant	capacity value	B (K)	Temperature
NTC10D-5 10 0.7 0.77 −6 −20 68/270 2700 NTC3DD-5 20 0.5 0.997 −6 ≈20 39/150 2800 NTC3DD-5 33 0.5 1.88 ~6 ≈20 39/150 2800 NTC3DD-7 5 2 0.28 ~9 ~30 100/390 2700 NTC8D-7 8 1 0.54 ~9 ~30 100/390 2700 NTC10D-7 10 1 0.62 ~9 ~30 100/390 2700 NTC10D-7 12 1 0.82 ~9 ~30 82/330 2700 NTC10D-7 16 0.7 1.00 ~9 ~30 82/330 2800 NTC2D-7 20 0.6 1.11 ~9 ~30 68/270 2800 NTC3D-7 33 0.5 1.48 ~9 ~30 68/270 2850 NTC3D-9 3 4 0.12	NTC5D-5	5	1	0.35	≈6	≈20	150/560	2700	
NTC20D-5 20 0.5 0.997 ≈6 ≈20 39/150 2800 NTC3D-7 5 2 0.28 ≈9 ≈30 100/390 2700 NTC8D-7 8 1 0.54 ≈9 ≈30 100/390 2700 NTC10D-7 10 1 0.62 ≈9 ≈30 100/390 2700 NTC10D-7 10 1 0.62 ≈9 ≈30 100/390 2700 NTC16D-7 16 0.7 1.00 ≈9 ≈30 82/330 2800 NTC2DD-7 20 0.6 1.11 ≈9 ≈30 82/330 2800 NTC3D-7 22 0.6 1.11 ≈9 ≈30 68/270 2800 NTC3D-9 3 4 0.12 ≈11 ≈35 220/820 2600 NTC3D-9 3 4 0.12 ≈11 ≈35 220/820 2700 NTC6D-9 6 2 0.32 <td< td=""><td>NTC8D-5</td><td>8</td><td>0.7</td><td>0.77</td><td>≈6</td><td>≈20</td><td>100/390</td><td>2700</td><td></td></td<>	NTC8D-5	8	0.7	0.77	≈6	≈20	100/390	2700	
NTC3D-5 33 0.5 1.88 ≈6 ≈20 39/150 2950 NTC5D-7 5 2 0.28 ≈9 ≈30 100/390 2700 NTC8D-7 8 1 0.54 ≈9 ≈30 100/390 2700 NTC1D-7 10 1 0.62 ≈9 ≈30 100/390 2700 NTC1D-7 12 1 0.82 ≈9 ≈30 82/330 2700 NTC1D-7 16 0.7 1.00 ≈9 ≈30 82/330 2800 NTC2D-7 20 0.6 1.11 ≈9 ≈30 82/330 2800 NTC2D-7 22 0.6 1.11 ≈9 ≈30 68/270 2950 NTC3D-7 33 0.5 1.49 ≈9 ≈30 68/270 2950 NTC3D-9 3 4 0.12 ≈11 ≈35 220/820 2700 NTC5D-9 5 3 0.21 ≈11 ≈35 220/820 2700 NTC6D-9 6 2 0.32 ≈11 ≈35 150/560 2700 NTC1D-9 10 2 0.46 ≈11 ≈35 150/560 2700 NTC1D-9 10 2 0.46 ≈11 ≈35 150/560 2700 NTC1D-9 15 1 0.80 ≈11 ≈35 82/330 2800 NTC1D-9 16 1 0.80 ≈11 ≈35 82/330 2800 NTC3D-9 20 1 0.88 ≈11 ≈35 82/330 2800 NTC3D-9 20 1 0.88 ≈11 ≈35 82/330 2800 NTC3D-9 50 1 1.25 ≈11 ≈35 82/330 2800 NTC3D-9 50 1 1.25 ≈11 ≈35 82/330 2800 NTC3D-9 10 0.8 3.02 ≈11 ≈35 68/270 2950 NTC3D-11 2.5 5 0.10 ≈14 ≈50 680/2700 2700 NTC1D-11 10 3 0.28 ≈14 ≈50 470/1800 2700 NTC3D-11 1 5 4 0.16 ≈14 ≈50 680/2700 2700 NTC3D-11 1 5 2 0.47 ≈14 ≈50 150/560 2800 NTC16D-11 16 2 0.47 ≈14 ≈50 150/560 2800 NTC16D-11 16 2 0.47 ≈14 ≈50 150/560 2800 NTC16D-11 16 2 0.47 ≈14 ≈50 150/560 2800 NTC2D-11 20 2 0.56 ≈14 ≈50 100/390 2950 NTC2D-11 20 2 0.56 ≈14 ≈50 100/390 2950 NTC3D-11 47 1.5 1.02 ≈14 ≈50 100/390 2950	NTC10D-5	10	0.7	0.77	≈6	≈20	68/270	2700	
NTC5D-7 5 2 0.28 ≈9 ≈30 100/390 2700 NTC8D-7 8 1 0.54 ≈9 ≈30 100/390 2700 NTC1D-7 10 1 0.62 ≈9 ≈30 100/390 2700 NTC1D-7 12 1 0.82 ≈9 ≈30 82/330 2800 NTC1D-7 16 0.7 1.00 ≈9 ≈30 82/330 2800 NTC2D-7 20 0.6 1.11 ≈9 ≈30 82/330 2800 NTC3D-9 3 0.5 1.49 ≈9 ≈30 68/270 2990 NTC3D-9 3 4 0.12 ≈11 ≈35 220/820 2700 NTC5D-9 5 3 0.21 ≈11 ≈35 220/820 2700 NTC5D-9 5 3 0.21 ≈11 ≈35 150/560 2700 NTC6D-9 6 2 0.32 ≈11	NTC20D-5	20	0.5	0.997	≈6	≈20	39/150	2800	
NTC8D-7 8 1 0.54 =9 ≈30 100/390 2700 NTC10D-7 10 1 0.62 ≈9 ≈30 100/390 2700 NTC16D-7 12 1 0.82 ≈9 ≈30 82/330 2800 NTC16D-7 16 0.7 1.00 ≈9 ≈30 82/330 2800 NTC2D-7 20 0.6 1.11 ≈9 ≈30 68/270 2800 NTC3D-7 22 0.6 1.11 ≈9 ≈30 68/270 2800 NTC3D-9 3 4 0.12 ≈11 ≈35 220/820 2600 NTC3D-9 3 4 0.12 ≈11 ≈35 220/820 2700 NTC6D-9 6 2 0.32 ≈11 ≈35 150/560 2700 NTC1D-9 10 2 0.46 ≈11 ≈35 150/560 2700 NTC1D-9 10 2 0.46 ≈	NTC33D-5	33	0.5	1.88	≈6	≈20	39/150	2950	
NTC10D-7	NTC5D-7	5	2	0.28	≈9	≈30	100/390	2700	
NTC12D-7 12 1 0.82 ≈9 ≈30 82/330 2700 NTC16D-7 16 0.7 1.00 ≈9 ≈30 82/330 2800 NTC2D-7 20 0.6 1.11 ≈9 ≈30 82/330 2800 NTC22D-7 22 0.6 1.11 ≈9 ≈30 68/270 2800 NTC3D-9 3 4 0.12 ≈11 ≈35 220/820 2600 NTC3D-9 5 3 0.21 ≈11 ≈35 220/820 2700 NTC6D-9 6 2 0.32 ≈11 ≈35 220/820 2700 NTC8D-9 8 2 0.40 ≈11 ≈35 150/560 2700 NTC1D-9 10 2 0.46 ≈11 ≈35 150/560 2700 NTC1D-9 10 2 0.46 ≈11 ≈35 150/560 2700 NTC15D-9 12 1 0.66 <t< td=""><td>NTC8D-7</td><td>8</td><td>1</td><td>0.54</td><td>≈9</td><td>≈30</td><td>100/390</td><td>2700</td><td>-40~+150</td></t<>	NTC8D-7	8	1	0.54	≈9	≈30	100/390	2700	-40~+150
NTC16D-7 16 0.7 1.00 ≈9 ≈30 82/330 2800 NTC2D-7 20 0.6 1.11 ≈9 ≈30 82/330 2800 NTC3D-7 22 0.6 1.11 ≈9 ≈30 68/270 2800 NTC3D-9 3 0.5 1.49 ≈9 ≈30 68/270 2950 NTC3D-9 3 4 0.12 ≈11 ≈35 220/820 2700 NTC6D-9 6 2 0.32 ≈11 ≈35 220/820 2700 NTC8D-9 8 2 0.40 ≈11 ≈35 150/560 2700 NTC1DD-9 10 2 0.46 ≈11 ≈35 150/560 2700 NTC1DD-9 12 1 0.66 ≈11 ≈35 150/560 2700 NTC1DD-9 12 1 0.66 ≈11 ≈35 150/560 2700 NTC1DD-9 16 1 0.80	NTC10D-7	10	1	0.62	≈9	≈30	100/390	2700	
NTC2DD-7 20 0.6 1.11 ≈9 ≈30 82/330 2800 NTC2D-7 22 0.6 1.11 ≈9 ≈30 68/270 2800 NTC33D-7 33 0.5 1.49 ≈9 ≈30 68/270 2950 NTC3D-9 3 4 0.12 ≈11 ≈35 220/820 2600 NTC5D-9 5 3 0.21 ≈11 ≈35 220/820 2700 NTC6D-9 6 2 0.32 ≈11 ≈35 220/820 2700 NTC8D-9 8 2 0.40 ≈11 ≈35 150/560 2700 NTC1D-9 10 2 0.46 ≈11 ≈35 150/560 2700 NTC1D-9 12 1 0.66 ≈11 ≈35 150/560 2700 NTC1D-9 15 1 0.80 ≈11 ≈35 82/330 2800 NTC3D-9 20 1 0.88 <td< td=""><td>NTC12D-7</td><td>12</td><td>1</td><td>0.82</td><td>≈9</td><td>≈30</td><td>82/330</td><td>2700</td><td></td></td<>	NTC12D-7	12	1	0.82	≈9	≈30	82/330	2700	
NTC22D-7 22 0.6 1.11 ≈9 ≈30 68/270 2800 NTC3D-9 3 0.5 1.49 ≈9 ≈30 68/270 2950 NTC3D-9 3 4 0.12 ≈11 ≈35 220/820 2600 NTC8D-9 5 3 0.21 ≈11 ≈35 220/820 2700 NTC8D-9 6 2 0.32 ≈11 ≈35 220/820 2700 NTC8D-9 8 2 0.40 ≈11 ≈35 150/560 2700 NTC1D-9 10 2 0.46 ≈11 ≈35 150/560 2700 NTC1D-9 12 1 0.66 ≈11 ≈35 150/560 2700 NTC15D-9 15 1 0.80 ≈11 ≈35 82/330 2800 NTC2D-9 16 1 0.80 ≈11 ≈35 82/330 2800 NTC2D-9 20 1 0.88 ≈	NTC16D-7	16	0.7	1.00	≈9	≈30	82/330	2800	
NTC33D-7 33 0.5 1.49 ≈9 ≈30 68/270 2950 NTC3D-9 3 4 0.12 ≈11 ≈35 220/820 2600 NTC5D-9 5 3 0.21 ≈11 ≈35 220/820 2700 NTC6D-9 6 2 0.32 ≈11 ≈35 220/820 2700 NTC18D-9 8 2 0.40 ≈11 ≈35 150/560 2700 NTC12D-9 10 2 0.46 ≈11 ≈35 150/560 2700 NTC15D-9 12 1 0.66 ≈11 ≈35 150/560 2700 NTC15D-9 15 1 0.80 ≈11 ≈35 150/560 2800 NTC16D-9 16 1 0.80 ≈11 ≈35 82/330 2800 NTC2DD-9 20 1 0.88 ≈11 ≈35 68/270 2950 NTC33D-9 33 1 1.12	NTC20D-7	20	0.6	1.11	≈9	≈30	82/330	2800	
NTC3D-9 3 4 0.12 ≈11 ≈35 220/820 2600 NTC5D-9 5 3 0.21 ≈11 ≈35 220/820 2700 NTC6D-9 6 2 0.32 ≈11 ≈35 220/820 2700 NTC8D-9 8 2 0.40 ≈11 ≈35 150/560 2700 NTC1D-9 10 2 0.46 ≈11 ≈35 150/560 2700 NTC15D-9 12 1 0.66 ≈11 ≈35 150/560 2700 NTC16D-9 16 1 0.80 ≈11 ≈35 150/560 2800 NTC16D-9 16 1 0.80 ≈11 ≈35 82/330 2800 NTC2DD-9 20 1 0.88 ≈11 ≈35 82/330 2800 NTC3DD-9 33 1 1.12 <t>≈11 ≈35 68/270 2950 NTC12DD-9 100 0.8 3.02</t>	NTC22D-7	22	0.6	1.11	≈9	≈30	68/270	2800	
NTC5D-9 5 3 0.21 ≈11 ≈35 220/820 2700 NTC6D-9 6 2 0.32 ≈11 ≈35 220/820 2700 NTC8D-9 8 2 0.40 ≈11 ≈35 150/560 2700 NTC10D-9 10 2 0.46 ≈11 ≈35 150/560 2700 NTC12D-9 12 1 0.66 ≈11 ≈35 150/560 2700 NTC15D-9 15 1 0.80 ≈11 ≈35 82/330 2800 NTC16D-9 16 1 0.80 ≈11 ≈35 82/330 2800 NTC2D-9 20 1 0.88 ≈11 ≈35 82/330 2800 NTC3D-9 20 1 0.95 ≈11 ≈35 68/270 2950 NTC3D-9 33 1 1.12 ≈11 ≈35 68/270 2950 NTC100D-9 100 0.8 3.02	NTC33D-7	33	0.5	1.49	≈9	≈30	68/270	2950	
NTC6D-9 6 2 0.32 ≈11 ≈35 220/820 2700 NTC8D-9 8 2 0.40 ≈11 ≈35 150/560 2700 NTC10D-9 10 2 0.46 ≈11 ≈35 150/560 2700 NTC12D-9 12 1 0.66 ≈11 ≈35 150/560 2800 NTC15D-9 15 1 0.80 ≈11 ≈35 82/330 2800 NTC16D-9 16 1 0.80 ≈11 ≈35 82/330 2800 NTC2D-9 20 1 0.88 ≈11 ≈35 82/330 2800 NTC3D-9 20 1 0.88 ≈11 ≈35 82/330 2800 NTC3D-9 22 1 0.95 ≈11 ≈35 68/270 2950 NTC3D-9 50 1 1.25 ≈11 ≈35 68/270 3200 NTC120D-9 120 0.8 3.02	NTC3D-9	3	4	0.12	≈11	≈35	220/820	2600	
NTC8D-9 8 2 0.40 ≈11 ≈35 150/560 2700 NTC10D-9 10 2 0.46 ≈11 ≈35 150/560 2700 NTC12D-9 12 1 0.66 ≈11 ≈35 150/560 2800 NTC15D-9 15 1 0.80 ≈11 ≈35 82/330 2800 NTC16D-9 16 1 0.80 ≈11 ≈35 82/330 2800 NTC2D-9 20 1 0.88 ≈11 ≈35 82/330 2800 NTC33D-9 33 1 1.12 ≈11 ≈35 82/330 2800 NTC30D-9 50 1 1.25 ≈11 ≈35 68/270 2950 NTC10D-9 100 0.8 3.02 ≈11 ≈35 68/270 3200 NTC12D-9 120 0.8 3.02 ≈11 ≈35 68/270 3200 NTC3D-11 3 5 0.10	NTC5D-9	5	3	0.21	≈ 11	≈35	220/820	2700	
NTC10D-9 10 2 0.46 ≈11 ≈35 150/560 2700 NTC12D-9 12 1 0.66 ≈11 ≈35 150/560 2700 NTC15D-9 15 1 0.80 ≈11 ≈35 150/560 2800 NTC16D-9 16 1 0.80 ≈11 ≈35 82/330 2800 NTC20D-9 20 1 0.88 ≈11 ≈35 82/330 2800 NTC33D-9 22 1 0.95 ≈11 ≈35 82/330 2800 NTC33D-9 33 1 1.12 ≈11 ≈35 68/270 2950 NTC100D-9 100 0.8 3.02 ≈11 ≈35 68/270 3200 NTC12D-9 120 0.8 3.02 ≈11 ≈35 68/270 3200 NTC3D-11 2.5 5 0.10 ≈14 ≈50 680/2700 2700 NTC3D-11 3 5 0.10<	NTC6D-9	6	2	0.32	≈11	≈35	220/820	2700	
NTC12D-9 12 1 0.66 ≈11 ≈35 150/560 2700 NTC15D-9 15 1 0.80 ≈11 ≈35 150/560 2800 NTC16D-9 16 1 0.80 ≈11 ≈35 82/330 2800 NTC2DD-9 20 1 0.88 ≈11 ≈35 82/330 2800 NTC2DD-9 22 1 0.95 ≈11 ≈35 82/330 2800 NTC33D-9 33 1 1.12 ≈11 ≈35 68/270 2950 NTC50D-9 50 1 1.25 ≈11 ≈35 68/270 2950 NTC100D-9 100 0.8 3.02 ≈11 ≈35 68/270 3200 NTC12DD-9 120 0.8 3.02 ≈11 ≈35 68/270 3200 NTC3D-11 3 5 0.10 ≈14 ≈50 680/2700 2700 NTC3D-11 3 5 0.10 <td>NTC8D-9</td> <td>8</td> <td>2</td> <td>0.40</td> <td>≈11</td> <td>≈35</td> <td>150/560</td> <td>2700</td> <td></td>	NTC8D-9	8	2	0.40	≈ 11	≈35	150/560	2700	
NTC15D-9 15 1 0.80 ≈11 ≈35 150/560 2800 NTC16D-9 16 1 0.80 ≈11 ≈35 82/330 2800 NTC2DD-9 20 1 0.88 ≈11 ≈35 82/330 2800 NTC2DD-9 22 1 0.95 ≈11 ≈35 82/330 2800 NTC33D-9 33 1 1.12 ≈11 ≈35 68/270 2950 NTC50D-9 50 1 1.25 ≈11 ≈35 68/270 2950 NTC10DD-9 100 0.8 3.02 ≈11 ≈35 68/270 3200 NTC12DD-9 120 0.8 3.02 ≈11 ≈35 68/270 3200 NTC3D-11 2.5 5 0.10 ≈14 ≈50 680/2700 2700 NTC3D-11 3 5 0.10 ≈14 ≈50 680/2700 2700 NTC8D-11 8 3 0.25<	NTC10D-9	10	2	0.46	≈11	≈35	150/560	2700	
NTC16D-9 16 1 0.80 ≈11 ≈35 82/330 2800 NTC20D-9 20 1 0.88 ≈11 ≈35 82/330 2800 NTC2D-9 22 1 0.95 ≈11 ≈35 82/330 2800 NTC33D-9 33 1 1.12 ≈11 ≈35 68/270 2950 NTC100D-9 50 1 1.25 ≈11 ≈35 68/270 2950 NTC100D-9 100 0.8 3.02 ≈11 ≈35 68/270 3200 NTC120D-9 120 0.8 3.02 ≈11 ≈35 68/270 3200 NTC12D-9 120 0.8 3.02 ≈11 ≈35 68/270 3200 NTC12D-9 120 0.8 3.02 ≈11 ≈35 68/270 3200 NTC3D-11 2.5 5 0.10 ≈14 ≈50 680/2700 2700 NTC8D-11 3 0.28 <t< td=""><td>NTC12D-9</td><td>12</td><td>1</td><td>0.66</td><td>≈11</td><td>≈35</td><td>150/560</td><td>2700</td><td></td></t<>	NTC12D-9	12	1	0.66	≈ 11	≈35	150/560	2700	
NTC20D-9 20 1 0.88 ≈11 ≈35 82/330 2800 NTC22D-9 22 1 0.95 ≈11 ≈35 82/330 2800 NTC33D-9 33 1 1.12 ≈11 ≈35 68/270 2950 NTC100D-9 50 1 1.25 ≈11 ≈35 68/270 2950 NTC100D-9 100 0.8 3.02 ≈11 ≈35 68/270 3200 NTC120D-9 120 0.8 3.02 ≈11 ≈35 68/270 3200 NTC120D-9 120 0.8 3.02 ≈11 ≈35 68/270 3200 NTC120D-11 2.5 5 0.10 ≈14 ≈50 680/2700 2700 NTC3D-11 3 5 0.10 ≈14 ≈50 680/2700 2700 NTC8D-11 5 4 0.16 ≈14 ≈50 470/1800 2800 NTC10D-11 10 3	NTC15D-9	15	1	0.80	≈11	≈35	150/560	2800	
NTC22D-9 22 1 0.95 ≈11 ≈35 82/330 2800 NTC33D-9 33 1 1.12 ≈11 ≈35 68/270 2950 NTC50D-9 50 1 1.25 ≈11 ≈35 68/270 2950 NTC100D-9 100 0.8 3.02 ≈11 ≈35 68/270 3200 NTC120D-9 120 0.8 3.02 ≈11 ≈35 68/270 3200 NTC2.5D-11 2.5 5 0.10 ≈14 ≈50 680/2700 2700 NTC3D-11 3 5 0.10 ≈14 ≈50 680/2700 2700 NTC5D-11 5 4 0.16 ≈14 ≈50 470/1800 2700 NTC8D-11 8 3 0.25 ≈14 ≈50 470/1800 2800 NTC10D-11 10 3 0.28 ≈14 ≈50 220/820 2800 NTC15D-11 15 2 <t< td=""><td>NTC16D-9</td><td>16</td><td>1</td><td>0.80</td><td>≈11</td><td>≈35</td><td>82/330</td><td>2800</td><td></td></t<>	NTC16D-9	16	1	0.80	≈ 11	≈35	82/330	2800	
NTC33D-9 33 1 1.12 ≈11 ≈35 68/270 2950 NTC50D-9 50 1 1.25 ≈11 ≈35 68/270 2950 NTC100D-9 100 0.8 3.02 ≈11 ≈35 68/270 3200 NTC120D-9 120 0.8 3.02 ≈11 ≈35 68/270 3200 NTC2.5D-11 2.5 5 0.10 ≈14 ≈50 680/2700 2700 NTC3D-11 3 5 0.10 ≈14 ≈50 680/2700 2700 NTC5D-11 5 4 0.16 ≈14 ≈50 470/1800 2700 NTC8D-11 8 3 0.25 ≈14 ≈50 470/1800 2800 NTC10D-11 10 3 0.28 ≈14 ≈50 220/820 2800 NTC15D-11 15 2 0.47 ≈14 ≈50 150/560 2800 NTC16D-11 16 2	NTC20D-9	20	1	0.88	≈11	≈35	82/330	2800	
NTC50D-9 50 1 1.25 ≈11 ≈35 68/270 2950 NTC100D-9 100 0.8 3.02 ≈11 ≈35 68/270 3200 NTC120D-9 120 0.8 3.02 ≈11 ≈35 68/270 3200 NTC2.5D-11 2.5 5 0.10 ≈14 ≈50 680/2700 2700 NTC3D-11 3 5 0.10 ≈14 ≈50 680/2700 2700 NTC5D-11 5 4 0.16 ≈14 ≈50 470/1800 2700 NTC8D-11 8 3 0.25 ≈14 ≈50 470/1800 2700 NTC10D-11 10 3 0.28 ≈14 ≈50 470/1800 2800 NTC12D-11 12 2 0.46 ≈14 ≈50 220/820 2800 NTC15D-11 15 2 0.47 ≈14 ≈50 150/560 2800 NTC3D-11 20 2	NTC22D-9	22	1	0.95	≈11	≈35	82/330	2800	
NTC100D-9 100 0.8 3.02 ≈11 ≈35 68/270 3200 NTC120D-9 120 0.8 3.02 ≈11 ≈35 68/270 3200 NTC2.5D-11 2.5 5 0.10 ≈14 ≈50 680/2700 2700 NTC3D-11 3 5 0.10 ≈14 ≈50 470/1800 2700 NTC5D-11 5 4 0.16 ≈14 ≈50 470/1800 2700 NTC8D-11 8 3 0.25 ≈14 ≈50 470/1800 2800 NTC10D-11 10 3 0.28 ≈14 ≈50 220/820 2800 NTC12D-11 12 2 0.46 ≈14 ≈50 220/820 2800 NTC15D-11 15 2 0.47 ≈14 ≈50 150/560 2800 NTC3D-11 20 2 0.51 ≈14 ≈50 100/390 2950 NTC3D-11 22 2	NTC33D-9	33	1	1.12	≈11	≈35	68/270	2950	
NTC120D-9 120 0.8 3.02 ≈11 ≈35 68/270 3200 -40~+175 NTC2.5D-11 2.5 5 0.10 ≈14 ≈50 680/2700 2700 NTC3D-11 3 5 0.10 ≈14 ≈50 680/2700 2700 NTC5D-11 5 4 0.16 ≈14 ≈50 470/1800 2700 NTC8D-11 8 3 0.25 ≈14 ≈50 470/1800 2800 NTC10D-11 10 3 0.28 ≈14 ≈50 220/820 2800 NTC12D-11 12 2 0.46 ≈14 ≈50 250/560 2800 NTC15D-11 15 2 0.47 ≈14 ≈50 150/560 2800 NTC20D-11 20 2 0.51 ≈14 ≈50 100/390 2950 NTC33D-11 23 1.5 0.67 ≈14 ≈50 100/390 2950 NTC47D-11 47 <td>NTC50D-9</td> <td>50</td> <td>1</td> <td>1.25</td> <td>≈11</td> <td>≈35</td> <td>68/270</td> <td>2950</td> <td></td>	NTC50D-9	50	1	1.25	≈11	≈35	68/270	2950	
NTC2.5D-11 2.5 5 0.10 ≈14 ≈50 680/2700 2700 NTC3D-11 3 5 0.10 ≈14 ≈50 680/2700 2700 NTC5D-11 5 4 0.16 ≈14 ≈50 470/1800 2700 NTC8D-11 8 3 0.25 ≈14 ≈50 470/1800 2800 NTC10D-11 10 3 0.28 ≈14 ≈50 220/820 2800 NTC12D-11 12 2 0.46 ≈14 ≈50 220/820 2800 NTC15D-11 15 2 0.47 ≈14 ≈50 150/560 2800 NTC16D-11 16 2 0.47 ≈14 ≈50 150/560 2800 NTC20D-11 20 2 0.51 ≈14 ≈50 100/390 2950 NTC33D-11 33 1.5 0.67 ≈14 ≈50 100/390 2950 NTC47D-11 47 1.5	NTC100D-9	100	0.8	3.02	≈11	≈35	68/270	3200	
NTC3D-11 3 5 0.10 ≈14 ≈50 680/2700 2700 NTC5D-11 5 4 0.16 ≈14 ≈50 470/1800 2700 NTC8D-11 8 3 0.25 ≈14 ≈50 470/1800 2800 NTC10D-11 10 3 0.28 ≈14 ≈50 220/820 2800 NTC12D-11 12 2 0.46 ≈14 ≈50 220/820 2800 NTC15D-11 15 2 0.47 ≈14 ≈50 150/560 2800 NTC16D-11 16 2 0.47 ≈14 ≈50 150/560 2800 NTC20D-11 20 2 0.51 ≈14 ≈50 100/390 2950 NTC33D-11 33 1.5 0.67 ≈14 ≈50 100/390 2950 NTC47D-11 47 1.5 1.02 ≈14 ≈50 100/390 2950	NTC120D-9	120	0.8	3.02	≈11	≈35	68/270	3200	-40~+175
NTC5D-11 5 4 0.16 ≈14 ≈50 470/1800 2700 NTC8D-11 8 3 0.25 ≈14 ≈50 470/1800 2800 NTC10D-11 10 3 0.28 ≈14 ≈50 220/820 2800 NTC12D-11 12 2 0.46 ≈14 ≈50 220/820 2800 NTC15D-11 15 2 0.47 ≈14 ≈50 150/560 2800 NTC16D-11 16 2 0.47 ≈14 ≈50 150/560 2800 NTC20D-11 20 2 0.51 ≈14 ≈50 100/390 2950 NTC33D-11 22 2 0.56 ≈14 ≈50 100/390 2950 NTC47D-11 47 1.5 1.02 ≈14 ≈50 100/390 2950	NTC2.5D-11	2.5	5	0.10	≈14	≈50	680/2700	2700	
NTC8D-11 8 3 0.25 ≈14 ≈50 470/1800 2800 NTC10D-11 10 3 0.28 ≈14 ≈50 220/820 2800 NTC12D-11 12 2 0.46 ≈14 ≈50 220/820 2800 NTC15D-11 15 2 0.47 ≈14 ≈50 150/560 2800 NTC16D-11 16 2 0.47 ≈14 ≈50 150/560 2800 NTC20D-11 20 2 0.51 ≈14 ≈50 100/390 2950 NTC22D-11 22 2 0.56 ≈14 ≈50 100/390 2950 NTC33D-11 33 1.5 0.67 ≈14 ≈50 100/390 2950 NTC47D-11 47 1.5 1.02 ≈14 ≈50 100/390 2950	NTC3D-11	3	5	0.10	≈14	≈50	680/2700	2700	
NTC10D-11 10 3 0.28 ≈14 ≈50 220/820 2800 NTC12D-11 12 2 0.46 ≈14 ≈50 220/820 2800 NTC15D-11 15 2 0.47 ≈14 ≈50 150/560 2800 NTC16D-11 16 2 0.47 ≈14 ≈50 150/560 2800 NTC20D-11 20 2 0.51 ≈14 ≈50 100/390 2950 NTC2D-11 22 2 0.56 ≈14 ≈50 100/390 2950 NTC33D-11 33 1.5 0.67 ≈14 ≈50 100/390 2950 NTC47D-11 47 1.5 1.02 ≈14 ≈50 100/390 2950	NTC5D-11	5	4	0.16	≈14	≈50	470/1800	2700	
NTC12D-11 12 2 0.46 ≈14 ≈50 220/820 2800 NTC15D-11 15 2 0.47 ≈14 ≈50 150/560 2800 NTC16D-11 16 2 0.47 ≈14 ≈50 150/560 2800 NTC20D-11 20 2 0.51 ≈14 ≈50 100/390 2950 NTC22D-11 22 2 0.56 ≈14 ≈50 100/390 2950 NTC33D-11 33 1.5 0.67 ≈14 ≈50 100/390 2950 NTC47D-11 47 1.5 1.02 ≈14 ≈50 100/390 2950	NTC8D-11	8	3	0.25	≈14	≈50	470/1800	2800	
NTC15D-11 15 2 0.47 ≈14 ≈50 150/560 2800 NTC16D-11 16 2 0.47 ≈14 ≈50 150/560 2800 NTC20D-11 20 2 0.51 ≈14 ≈50 100/390 2950 NTC22D-11 22 2 0.56 ≈14 ≈50 100/390 2950 NTC33D-11 33 1.5 0.67 ≈14 ≈50 100/390 2950 NTC47D-11 47 1.5 1.02 ≈14 ≈50 100/390 2950	NTC10D-11	10	3	0.28	≈14	≈50	220/820	2800	
NTC16D-11 16 2 0.47 ≈14 ≈50 150/560 2800 NTC20D-11 20 2 0.51 ≈14 ≈50 100/390 2950 NTC22D-11 22 2 0.56 ≈14 ≈50 100/390 2950 NTC33D-11 33 1.5 0.67 ≈14 ≈50 100/390 2950 NTC47D-11 47 1.5 1.02 ≈14 ≈50 100/390 2950	NTC12D-11	12	2	0.46	≈14	≈50	220/820	2800	
NTC20D-11 20 2 0.51 ≈14 ≈50 100/390 2950 NTC22D-11 22 2 0.56 ≈14 ≈50 100/390 2950 NTC33D-11 33 1.5 0.67 ≈14 ≈50 100/390 2950 NTC47D-11 47 1.5 1.02 ≈14 ≈50 100/390 2950	NTC15D-11	15	2	0.47	≈14	≈50	150/560	2800	
NTC22D-11 22 2 0.56 ≈14 ≈50 100/390 2950 NTC33D-11 33 1.5 0.67 ≈14 ≈50 100/390 2950 NTC47D-11 47 1.5 1.02 ≈14 ≈50 100/390 2950	NTC16D-11	16	2	0.47	≈14	≈50	150/560	2800	
NTC33D-11 33 1.5 0.67 ≈14 ≈50 100/390 2950 NTC47D-11 47 1.5 1.02 ≈14 ≈50 100/390 2950	NTC20D-11	20	2	0.51	≈14	≈50	100/390	2950	
NTC47D-11 47 1.5 1.02 ≈14 ≈50 100/390 2950	NTC22D-11	22	2	0.56	≈14	≈50	100/390	2950	
	NTC33D-11	33	1.5	0.67	≈14	≈50	100/390	2950	
NTC50D-11 50 1.5 1.02 ≈14 ≈50 100/390 2950	NTC47D-11	47	1.5	1.02	≈14	≈50	100/390	2950	
	NTC50D-11	50	1.5	1.02	≈14	≈50	100/390	2950	

Revised: 2023-10-16

Version: A6



NTC Series

Parameters of Technology

Model Ross Max. steady (A) Residual (CA) Dissipation (CA) Themat time (sh) Max. allowable (240V/120V (μF) B (N) Compenitor (Temporature (CY) NTC2.5D-13 2.5 6.5 0.088 -15 ~68 680/2700 2600 NTC2.5D-13 2.5 6 0.088 ~15 ~68 680/2700 2600 NTC3D-13 3 6 0.092 ~15 ~68 680/2700 2700 NTC4.7D-13 4.7 5 0.12 ~15 ~68 680/2700 2700 NTC3D-13 8 4 0.192 ~15 ~68 680/2700 2700 NTC10D-13 10 4 0.206 ~15 ~68 330/1200 2800 NTC10D-13 18 3 0.335 ~15 ~68 220/820 2800 NTC10D-13 18 3 0.372 ~15 ~68 220/820 2800 NTC3D-13 28 3 0.372 ~15 ~68									
NTC2.5D-13 2.5 6 0.088 ≈15 ≈68 680/2700 2600 NTC3D-13 3 6 0.092 ≈15 ≈68 680/2700 2600 NTC4.7D-13 4.7 5 0.12 ≈15 ≈68 680/2700 2700 NTCBD-13 5 5 0.125 ≈15 ≈68 680/2700 2700 NTCBD-13 8 4 0.194 ≈15 ≈68 330/1200 2800 NTC10D-13 10 4 0.206 ≈15 ≈68 220/820 2800 NTC16D-13 16 3 0.35 ≈15 ≈68 220/820 2800 NTC20D-13 20 3 0.372 ≈15 ≈68 220/820 2800 NTC2D-13 20 3 0.372 ≈15 ≈68 220/820 2800 NTC3D-13 47 2 0.81 ≈15 ≈68 150/560 2950 NTC47D-13 47 2	Model		State current	Resistance	factor	Constant	capacity value	B (K)	Temperature
NTC3D-13 3 6 0.092 ≈15 ≈68 680/2700 2600 NTC4.7D-13 4.7 5 0.12 ≈15 ≈68 680/2700 2700 NTC5D-13 5 5 0.125 ≈15 ≈68 680/2700 2700 NTC5D-13 8 4 0.194 ≈15 ≈68 330/1200 2800 NTC10D-13 10 4 0.206 ≈15 ≈68 220/820 2800 NTC16D-13 16 3 0.335 ≈15 ≈68 220/820 2800 NTC18D-13 18 3 0.372 ≈15 ≈68 220/820 2800 NTC18D-13 18 3 0.372 ≈15 ≈68 220/820 2800 NTC3D-13 20 3 0.372 ≈15 ≈68 220/820 2800 NTC3D-13 20 3 0.372 ≈15 ≈68 220/820 2800 NTC3D-13 30 2.5 0.517 ≈15 ≈68 150/560 2950 NTC47D-13 47 2 0.81 ≈15 ≈68 150/560 2950 NTC1.3D-15 1.3 8 0.052 ≈18 ≈86 820/3300 2600 NTC1.5D-15 1.5 8 0.071 ≈18 ≈86 820/3300 2600 NTC3D-15 3 7 0.075 ≈18 ≈86 820/3300 2600 NTC5D-15 5 6 0.112 ≈18 ≈86 680/2700 2800 NTC8D-15 8 5 0.178 ≈18 ≈86 680/2700 2800 NTC8D-15 8 5 0.178 ≈18 ≈86 680/2700 2950 NTC1.5D-15 15 4 0.268 ≈18 ≈86 680/2700 2950 NTC16D-15 16 4 0.268 ≈18 ≈86 680/2700 2950 NTC16D-15 16 4 0.288 ≈18 ≈86 560/2200 2950 NTC16D-15 16 4 0.288 ≈18 ≈86 560/2200 2950 NTC16D-15 16 4 0.288 ≈18 ≈86 560/2200 2950 NTC16D-15 16 4 0.288 ≈18 ≈86 220/820 2950 NTC18D-15 30 3.5 0.438 ≈18 ≈86 220/820 2950 NTC3D-15 50 3 0.72 ≈18 ≈86 220/820 2950 NTC3D-15 16 4 0.288 ≈18 ≈86 220/820 2950 NTC16D-15 16 4 0.288 ≈18 ≈86 220/820 2950 NTC3D-15 30 3.5 0.438 ≈18 ≈86 220/820 2950 NTC3D-15 16 4 0.288 ≈18 ≈86 220/820 2950 NTC3D-15 50 3 0.72 ≈18 ≈86 220/820 3200 NTC3D-15 50 3 0.72 ≈18 ≈86 330/1200 2950 NTC3D-15 10 5 0.3 0.72 ≈18 ≈86 330/1200 2950 NTC3D-15 10 5 0.3 0.72 ≈18 ≈86 330/1200 2950 NTC3D-15 10 5 0.3 0.72 ≈18 ≈86 330/1200 2950 NTC3D-15 10 0.3 0.3 0.72 ≈18 ≈86 330/1200 2950 NTC3D-15 10 0.3 0.3 0.3 0.72 ≈18 ≈86 330/1200 2950 NTC3D-15 10 0.3 0.3 0.3 0.3 0.3 0.3 0.3 0.3 0.3 0.	NTC1.5D-13	1.5	6.5	0.085	≈ 15	≈68	680/2700	2600	
NTC3D-13 3 6 0.092 ≈15 ≈68 680/2700 2600 NTC4.7D-13 4.7 5 0.12 ≈15 ≈68 680/2700 2700 NTC5D-13 5 5 0.125 ≈15 ≈68 680/2700 2700 NTC8D-13 8 4 0.194 ≈15 ≈68 330/1200 2800 NTC10D-13 10 4 0.206 ≈15 ≈68 220/820 2800 NTC16D-13 16 3 0.335 ≈15 ≈68 220/820 2800 NTC18D-13 18 3 0.372 ≈15 ≈68 220/820 2800 NTC20D-13 20 3 0.372 ≈15 ≈68 220/820 2800 NTC3D-13 30 2.5 0.517 ≈15 ≈68 150/560 2950 NTC47D-13 47 2 0.81 ≈15 ≈68 820/3300 2600 NTC1.5D-15 1.5 8 </td <td>NTC2.5D-13</td> <td>2.5</td> <td>6</td> <td>0.088</td> <td>≈15</td> <td>≈68</td> <td>680/2700</td> <td>2600</td> <td></td>	NTC2.5D-13	2.5	6	0.088	≈15	≈68	680/2700	2600	
NTC5D-13 5 5 0.125 ≈15 ≈68 680/2700 2700 NTC8D-13 8 4 0.194 ≈15 ≈68 330/1200 2800 NTC10D-13 10 4 0.206 ≈15 ≈68 320/820 2800 NTC16D-13 16 3 0.335 ≈15 ≈68 220/820 2800 NTC18D-13 18 3 0.372 ≈15 ≈68 220/820 2800 NTC3D-13 20 3 0.372 ≈15 ≈68 220/820 2800 NTC3D-13 30 2.5 0.517 ≈15 ≈68 150/560 2950 NTC3D-13 47 2 0.81 ≈15 ≈68 150/560 2950 NTC1.3D-15 1.3 8 0.052 ≈18 ≈86 820/3300 2600 NTC2.5D-15 5 8 0.071 ≈18 ≈86 820/3300 2600 NTC3D-15 3 7 0.075 ≈18 ≈86 820/3300 2600 NTC3D-15 5 6 0.112 ≈18 ≈86 820/3300 2600 NTC3D-15 5 6 0.112 ≈18 ≈86 680/2700 2800 NTC3D-15 5 6 0.173 ≈18 ≈86 680/2700 2800 NTC1.5D-15 15 6 0.18 ≈18 ≈86 680/2700 2950 NTC15D-15 16 4 0.268 ≈18 ≈86 680/2700 2950 NTC15D-15 16 4 0.268 ≈18 ≈86 560/2200 2950 NTC15D-15 18 4 0.288 ≈18 ≈86 560/2200 2950 NTC15D-15 18 4 0.288 ≈18 ≈86 560/2200 2950 NTC15D-15 5 0 3 0.72 ≈18 ≈86 220/820 2950 NTC15D-15 18 4 0.288 ≈18 ≈86 560/2200 2950 NTC15D-15 18 4 0.288 ≈18 ≈86 560/2200 2950 NTC15D-15 5 0 3 0.72 ≈18 ≈86 220/820 2950 NTC15D-15 18 4 0.288 ≈18 ≈86 560/2200 2950 NTC15D-15 18 4 0.288 ≈18 ≈86 560/2200 2950 NTC15D-15 5 0 3 0.72 ≈18 ≈86 220/820 2950 NTC3D-15 5 0 3 0.72 ≈18 ≈86 220/820 2950 NTC3D-15 5 0 3 0.72 ≈18 ≈86 220/820 2950 NTC3D-15 50 3 0.72 ≈18 ≈86 220/820 3200 NTC5D-15 50 3 0.72 ≈18 ≈86 220/820 3200 NTC3D-20 1.3 9 0.037 ≈24 ≈113 820/3300 2600 NTC3D-20 1.5 9 0.037 ≈24 ≈113 820/3300 2600 NTC3D-20 3 8 0.049 ≈24 ≈113 820/3300 2700 NTC3D-20 1.5 9 0.037 ≈24 ≈113 820/3300 2950 NTC3D-20 1.6 0.142 ≈24 ≈113 820/3300 2950 NTC16D-20 16 0.162 ≈24 ≈113 820/3300 2950	NTC3D-13	3	6	0.092	<u> </u>		680/2700	2600	
NTCSD-13	NTC4.7D-13	4.7	5	0.12	≈15	≈68	680/2700	2700	
NTC8D-13 8 4 0.194 ≈15 ≈68 330/1200 2800 NTC10D-13 10 4 0.206 ≈15 ≈68 330/1200 2800 NTC16D-13 16 3 0.335 ≈15 ≈68 220/820 2800 NTC18D-13 18 3 0.372 ≈15 ≈68 220/820 2800 NTC20D-13 20 3 0.372 ≈15 ≈68 220/820 2800 NTC3D-13 30 2.5 0.517 ≈15 ≈68 150/560 2950 NTC47D-13 47 2 0.81 ≈15 ≈68 150/560 2950 NTC1.5D-15 1.5 8 0.052 ≈18 ≈86 820/3300 2600 NTC1.5D-15 1.5 8 0.071 ≈18 ≈86 820/3300 2600 NTC2.5D-15 2.5 8 0.071 ≈18 ≈86 820/3300 2600 NTC3D-15 3 <t< td=""><td>NTC5D-13</td><td>5</td><td>5</td><td>0.125</td><td>≈15</td><td></td><td>680/2700</td><td>2700</td><td></td></t<>	NTC5D-13	5	5	0.125	≈ 15		680/2700	2700	
NTC10D-13 10	NTC8D-13	8	4	0.194	≈15	≈68	330/1200	2800	
NTC16D-13	NTC10D-13	10	4	0.206	≈ 15	≈68	330/1200	2800	
NTC20D-13 20 3 0.372 ≈15 ≈68 220/820 2800 NTC30D-13 30 2.5 0.517 ≈15 ≈68 150/560 2950 NTC47D-13 47 2 0.81 ≈15 ≈68 150/560 2950 NTC1.3D-15 1.3 8 0.052 ≈18 ≈86 820/3300 2600 NTC1.5D-15 1.5 8 0.071 ≈18 ≈86 820/3300 2600 NTC3.D-15 1.5 8 0.071 ≈18 ≈86 820/3300 2600 NTC3.D-15 3 7 0.075 ≈18 ≈86 820/3300 2600 NTC3D-15 5 6 0.112 ≈18 ≈86 880/2700 2800 NTC3D-15 7 5 0.173 ≈18 ≈86 680/2700 2800 NTC3D-15 10 5 0.18 ≈18 ≈86 680/2700 2950 NTC10D-15 10 5 0.18 ≈18 ≈86 680/2700 2950 NTC15D-15 15 4 0.268 ≈18 ≈86 560/2200 2950 NTC16D-15 16 4 0.268 ≈18 ≈86 330/1200 2950 NTC10D-15 18 4 0.288 ≈18 ≈86 330/1200 2950 NTC3D-15 30 3.5 0.438 ≈18 ≈86 220/820 2950 NTC3D-15 30 3.5 0.438 ≈18 ≈86 220/820 2950 NTC3D-15 50 3 0.72 ≈18 ≈86 220/820 3200 NTC47D-15 47 3 0.68 ≈18 ≈86 220/820 3200 NTC47D-15 50 3 0.72 ≈18 ≈86 220/820 3200 NTC5D-20 1.5 9 0.037 ≈24 ≈113 820/3300 2600 NTC3D-20 3 8 0.049 ≈24 ≈113 820/3300 2950 NTC3D-20 5 7 0.087 ≈24 ≈113 820/3300 2950 NTC3D-20 5 7 0.087 ≈24 ≈113 820/3300 2950 NTC3D-20 10 6 0.162 ≈24 ≈113 820/3300 2950 NTC1DD-20 10 6 0.162 ≈24 ≈113 820/3300 2950 NTC1DD-20 10 6 0.162 ≈24 ≈113 820/3300 2950	NTC16D-13	16	3	0.335			220/820	2800	
NTC30D-13 30 2.5 0.517 ≈15 ≈68 150/560 2950 NTC47D-13 47 2 0.81 ≈15 ≈68 150/560 2950 NTC1.3D-15 1.3 8 0.052 ≈18 ≈86 820/3300 2600 NTC1.5D-15 1.5 8 0.071 ≈18 ≈86 820/3300 2600 NTC2.5D-15 2.5 8 0.071 ≈18 ≈86 820/3300 2600 NTC3D-15 3 7 0.075 ≈18 ≈86 820/3300 2600 NTC3D-15 5 6 0.112 ≈18 ≈86 680/2700 2800 NTC3D-15 7 5 0.173 ≈18 ≈86 680/2700 2800 NTC8D-15 8 5 0.178 ≈18 ≈86 680/2700 2950 NTC1.5D-15 10 5 0.18 ≈18 ≈86 680/2700 2950 NTC1.5D-15 15 4 0.268 ≈18 ≈86 560/2200 2950 NTC1.5D-15 16 4 0.268 ≈18 ≈86 560/2200 2950 NTC1.5D-15 16 4 0.288 ≈18 ≈86 560/2200 2950 NTC1.5D-15 16 4 0.288 ≈18 ≈86 560/2200 2950 NTC3D-15 30 3.5 0.438 ≈18 ≈86 220/820 2950 NTC3D-15 30 3.5 0.438 ≈18 ≈86 220/820 2950 NTC3D-15 50 3 0.72 ≈18 ≈86 220/820 3200 NTC47D-15 50 3 0.72 ≈18 ≈86 220/820 3200 NTC1.5D-20 1.5 9 0.037 ≈24 ≈113 820/3300 2600 NTC3D-20 3 8 0.049 ≈24 ≈113 820/3300 2950 NTC3D-20 3 8 0.049 ≈24 ≈113 820/3300 2950 NTCSD-20 5 7 0.087 ≈24 ≈113 820/3300 2950 NTCSD-20 10 6 0.162 ≈24 ≈113 820/3300 2950 NTC1.5D-20 10 6 0.162 ≈24 ≈113 820/3300 2950 NTC1.5D-20 10 6 0.162 ≈24 ≈113 820/3300 2950 NTC1.5D-20 10 6 0.162 ≈24 ≈113 820/3300 2950	NTC18D-13	18	3	0.372	≈15	≈68	220/820	2800	
NTC47D-13 47 2 0.81 ≈15 ≈68 150/560 2950 NTC1.3D-15 1.3 8 0.052 ≈18 ≈86 820/3300 2600 NTC1.5D-15 1.5 8 0.071 ≈18 ≈86 820/3300 2600 NTC3D-15 2.5 8 0.071 ≈18 ≈86 820/3300 2600 NTC3D-15 3 7 0.075 ≈18 ≈86 820/3300 2600 NTC3D-15 3 7 0.075 ≈18 ≈86 680/2700 2800 NTC7D-15 7 5 0.173 ≈18 ≈86 680/2700 2800 NTC10D-15 10 5 0.178 ≈18 ≈86 680/2700 2950 NTC1DD-15 10 5 0.18 ≈18 ≈86 560/2200 2950 NTC15D-15 15 4 0.268 ≈18 ≈86 560/2200 2950 NTC18D-15 18	NTC20D-13	20	3	0.372	≈ 15	≈68	220/820	2800	
NTC1.3D-15 1.3 8 0.052 ≈18 ≈86 820/3300 2600 NTC1.5D-15 1.5 8 0.071 ≈18 ≈86 820/3300 2600 NTC2.5D-15 2.5 8 0.071 ≈18 ≈86 820/3300 2600 NTC3D-15 3 7 0.075 ≈18 ≈86 820/3300 2600 NTC5D-15 5 6 0.112 ≈18 ≈86 680/2700 2800 NTC7D-15 7 5 0.173 ≈18 ≈86 680/2700 2800 NTC3D-15 8 5 0.178 ≈18 ≈86 680/2700 2950 NTC10D-15 10 5 0.18 ≈18 ≈86 560/2200 2950 NTC15D-15 15 4 0.268 ≈18 ≈86 560/2200 2950 NTC16D-15 16 4 0.288 ≈18 ≈86 330/1200 2950 NTC3D-15 30 <td< td=""><td>NTC30D-13</td><td>30</td><td>2.5</td><td>0.517</td><td>≈15</td><td>≈68</td><td>150/560</td><td>2950</td><td></td></td<>	NTC30D-13	30	2.5	0.517	≈15	≈68	150/560	2950	
NTC1.5D-15 1.5 8 0.071 ≈18 ≈86 820/3300 2600 NTC2.5D-15 2.5 8 0.071 ≈18 ≈86 820/3300 2600 NTC3D-15 3 7 0.075 ≈18 ≈86 820/3300 2600 NTC5D-15 5 6 0.112 ≈18 ≈86 680/2700 2800 NTC7D-15 7 5 0.173 ≈18 ≈86 680/2700 2800 NTC8D-15 8 5 0.178 ≈18 ≈86 680/2700 2950 NTC10D-15 10 5 0.18 ≈18 ≈86 560/2200 2950 NTC16D-15 15 4 0.268 ≈18 ≈86 560/2200 2950 NTC18D-15 18 4 0.288 ≈18 ≈86 560/2200 2950 NTC3D-15 18 4 0.288 ≈18 ≈86 220/820 2950 NTC3D-15 30 3.5	NTC47D-13	47	2	0.81	≈15	≈68	150/560	2950	
NTC2.5D-15 2.5 8 0.071 ≈18 ≈86 820/3300 2600 NTC3D-15 3 7 0.075 ≈18 ≈86 820/3300 2600 NTC5D-15 5 6 0.112 ≈18 ≈86 680/2700 2800 NTC7D-15 7 5 0.173 ≈18 ≈86 680/2700 2950 NTC10D-15 8 5 0.178 ≈18 ≈86 680/2700 2950 NTC10D-15 10 5 0.18 ≈18 ≈86 560/2200 2950 NTC15D-15 15 4 0.268 ≈18 ≈86 560/2200 2950 NTC18D-15 16 4 0.268 ≈18 ≈86 560/2200 2950 NTC18D-15 18 4 0.288 ≈18 ≈86 330/1200 2950 NTC30D-15 30 3.5 0.438 ≈18 ≈86 220/820 2950 NTC47D-15 47	NTC1.3D-15	1.3	8	0.052	≈18	≈86	820/3300	2600	
NTC3D-15 3 7 0.075 ≈18 ≈86 820/3300 2600 NTC5D-15 5 6 0.112 ≈18 ≈86 680/2700 2800 NTC7D-15 7 5 0.173 ≈18 ≈86 680/2700 2800 NTC8D-15 8 5 0.178 ≈18 ≈86 680/2700 2950 NTC10D-15 10 5 0.18 ≈18 ≈86 560/2200 2950 NTC15D-15 15 4 0.268 ≈18 ≈86 560/2200 2950 NTC16D-15 16 4 0.268 ≈18 ≈86 560/2200 2950 NTC18D-15 18 4 0.288 ≈18 ≈86 330/1200 2950 NTC30D-15 20 4 0.288 ≈18 ≈86 220/820 2950 NTC47D-15 47 3 0.68 ≈18 ≈86 220/820 2950 NTC50D-15 50 3	NTC1.5D-15	1.5	8	0.071	≈18	≈86	820/3300	2600	
NTC5D-15 5 6 0.112 ≈18 ≈86 680/2700 2800 NTC7D-15 7 5 0.173 ≈18 ≈86 680/2700 2800 NTC8D-15 8 5 0.178 ≈18 ≈86 680/2700 2950 NTC10D-15 10 5 0.18 ≈18 ≈86 560/2200 2950 NTC15D-15 15 4 0.268 ≈18 ≈86 560/2200 2950 NTC16D-15 16 4 0.268 ≈18 ≈86 560/2200 2950 NTC18D-15 18 4 0.288 ≈18 ≈86 330/1200 2950 NTC20D-15 20 4 0.288 ≈18 ≈86 220/820 2950 NTC30D-15 30 3.5 0.438 ≈18 ≈86 220/820 2950 NTC47D-15 47 3 0.68 ≈18 ≈86 220/820 3200 NTC3D-15 50 3 <td>NTC2.5D-15</td> <td>2.5</td> <td>8</td> <td>0.071</td> <td>≈18</td> <td>≈86</td> <td>820/3300</td> <td>2600</td> <td></td>	NTC2.5D-15	2.5	8	0.071	≈18	≈86	820/3300	2600	
NTC7D-15 7 5 0.173 ≈18 ≈86 680/2700 2800 NTC8D-15 8 5 0.178 ≈18 ≈86 680/2700 2950 NTC10D-15 10 5 0.18 ≈18 ≈86 560/2200 2950 NTC15D-15 15 4 0.268 ≈18 ≈86 560/2200 2950 NTC16D-15 16 4 0.268 ≈18 ≈86 560/2200 2950 NTC18D-15 18 4 0.288 ≈18 ≈86 330/1200 2950 NTC3D-15 18 4 0.288 ≈18 ≈86 330/1200 2950 NTC3D-15 20 4 0.288 ≈18 ≈86 220/820 2950 NTC3D-15 30 3.5 0.438 ≈18 ≈86 220/820 2950 NTC47D-15 47 3 0.68 ≈18 ≈86 220/820 3200 NTC50D-15 50 3 <td>NTC3D-15</td> <td>3</td> <td>7</td> <td>0.075</td> <td>≈18</td> <td>≈86</td> <td>820/3300</td> <td>2600</td> <td></td>	NTC3D-15	3	7	0.075	≈18	≈86	820/3300	2600	
NTC8D-15 8 5 0.178 ≈18 ≈86 680/2700 2950 NTC10D-15 10 5 0.18 ≈18 ≈86 560/2200 2950 NTC15D-15 15 4 0.268 ≈18 ≈86 560/2200 2950 NTC16D-15 16 4 0.268 ≈18 ≈86 560/2200 2950 NTC18D-15 18 4 0.288 ≈18 ≈86 330/1200 2950 NTC20D-15 20 4 0.288 ≈18 ≈86 220/820 2950 NTC30D-15 30 3.5 0.438 ≈18 ≈86 220/820 2950 NTC47D-15 47 3 0.68 ≈18 ≈86 220/820 3200 NTC50D-15 50 3 0.72 ≈18 ≈86 220/820 3200 NTC1.3D-20 1.3 9 0.037 ≈24 ≈113 820/3300 2600 NTC1.5D-20 1.5 9 0.037 ≈24 ≈113 820/3300 2700 NTC3D-20 3 8 0.055 ≈24 ≈113 820/3300 2700 NTC5D-20 5 7 0.087 ≈24 ≈113 820/3300 2950 NTC8D-20 8 6 0.142 ≈24 ≈113 820/3300 2950 NTC1D-20 10 6 0.162 ≈24 ≈113 820/3300 2950 NTC1D-20 10 6 0.162 ≈24 ≈113 820/3300 2950 NTC1D-20 10 6 0.162 ≈24 ≈113 820/3300 2950 NTC1D-20 16 5 0.212 ≈24 ≈113 820/3300 3200	NTC5D-15	5	6	0.112	≈18	≈86	680/2700	2800	
NTC8D-15 8 5 0.178 ≈18 ≈86 680/2700 2950 NTC10D-15 10 5 0.18 ≈18 ≈86 560/2200 2950 NTC15D-15 15 4 0.268 ≈18 ≈86 560/2200 2950 NTC16D-15 16 4 0.268 ≈18 ≈86 560/2200 2950 NTC18D-15 18 4 0.288 ≈18 ≈86 330/1200 2950 NTC20D-15 20 4 0.288 ≈18 ≈86 220/820 2950 NTC30D-15 30 3.5 0.438 ≈18 ≈86 220/820 2950 NTC47D-15 47 3 0.68 ≈18 ≈86 220/820 3200 NTC50D-15 50 3 0.72 ≈18 ≈86 220/820 3200 NTC1.3D-20 1.3 9 0.037 ≈24 ≈113 820/3300 2600 NTC3.D-20 1.5 <t< td=""><td>NTC7D-15</td><td>7</td><td>5</td><td>0.173</td><td>≈18</td><td>≈86</td><td>680/2700</td><td>2800</td><td>-40~+200</td></t<>	NTC7D-15	7	5	0.173	≈18	≈86	680/2700	2800	-40~+200
NTC15D-15 15 4 0.268 ≈18 ≈86 560/2200 2950 NTC16D-15 16 4 0.268 ≈18 ≈86 560/2200 2950 NTC18D-15 18 4 0.288 ≈18 ≈86 330/1200 2950 NTC20D-15 20 4 0.288 ≈18 ≈86 220/820 2950 NTC30D-15 30 3.5 0.438 ≈18 ≈86 220/820 2950 NTC47D-15 47 3 0.68 ≈18 ≈86 220/820 3200 NTC50D-15 50 3 0.72 ≈18 ≈86 220/820 3200 NTC1.3D-20 1.3 9 0.037 ≈24 ≈113 820/3300 2600 NTC1.5D-20 1.5 9 0.037 ≈24 ≈113 820/3300 2700 NTC3D-20 3 8 0.049 ≈24 ≈113 820/3300 2700 NTC5D-20 5	NTC8D-15	8	5	0.178	≈18	≈86	680/2700	2950	-40 1200
NTC16D-15 16 4 0.268 ≈18 ≈86 560/2200 2950 NTC18D-15 18 4 0.288 ≈18 ≈86 330/1200 2950 NTC20D-15 20 4 0.288 ≈18 ≈86 220/820 2950 NTC30D-15 30 3.5 0.438 ≈18 ≈86 220/820 2950 NTC47D-15 47 3 0.68 ≈18 ≈86 220/820 3200 NTC50D-15 50 3 0.72 ≈18 ≈86 220/820 3200 NTC1.3D-20 1.3 9 0.037 ≈24 ≈113 820/3300 2600 NTC1.5D-20 1.5 9 0.037 ≈24 ≈113 820/3300 2600 NTC3D-20 3 8 0.049 ≈24 ≈113 820/3300 2700 NTC3D-20 3 8 0.055 ≈24 ≈113 820/3300 2700 NTC5D-20 5 <	NTC10D-15	10	5	0.18	≈18	≈86	560/2200	2950	
NTC18D-15 18 4 0.288 ≈18 ≈86 330/1200 2950 NTC20D-15 20 4 0.288 ≈18 ≈86 220/820 2950 NTC30D-15 30 3.5 0.438 ≈18 ≈86 220/820 2950 NTC47D-15 47 3 0.68 ≈18 ≈86 220/820 3200 NTC50D-15 50 3 0.72 ≈18 ≈86 220/820 3200 NTC1.3D-20 1.3 9 0.037 ≈24 ≈113 820/3300 2600 NTC1.5D-20 1.5 9 0.037 ≈24 ≈113 820/3300 2600 NTC2.5D-20 2.5 8 0.049 ≈24 ≈113 820/3300 2700 NTC3D-20 3 8 0.055 ≈24 ≈113 820/3300 2800 NTC5D-20 5 7 0.087 ≈24 ≈113 820/3300 2950 NTC10D-20 10	NTC15D-15	15	4	0.268	≈18	≈86	560/2200	2950	
NTC20D-15 20 4 0.288 ≈18 ≈86 220/820 2950 NTC30D-15 30 3.5 0.438 ≈18 ≈86 220/820 2950 NTC47D-15 47 3 0.68 ≈18 ≈86 220/820 3200 NTC50D-15 50 3 0.72 ≈18 ≈86 220/820 3200 NTC1.3D-20 1.3 9 0.037 ≈24 ≈113 820/3300 2600 NTC1.5D-20 1.5 9 0.037 ≈24 ≈113 820/3300 2600 NTC2.5D-20 2.5 8 0.049 ≈24 ≈113 820/3300 2700 NTC3D-20 3 8 0.055 ≈24 ≈113 820/3300 2800 NTC5D-20 5 7 0.087 ≈24 ≈113 820/3300 2950 NTC8D-20 8 6 0.142 ≈24 ≈113 820/3300 2950 NTC10D-20 16	NTC16D-15	16	4	0.268	≈18	≈86	560/2200	2950	
NTC30D-15 30 3.5 0.438 ≈18 ≈86 220/820 2950 NTC47D-15 47 3 0.68 ≈18 ≈86 220/820 3200 NTC50D-15 50 3 0.72 ≈18 ≈86 220/820 3200 NTC1.3D-20 1.3 9 0.037 ≈24 ≈113 820/3300 2600 NTC1.5D-20 1.5 9 0.037 ≈24 ≈113 820/3300 2600 NTC2.5D-20 2.5 8 0.049 ≈24 ≈113 820/3300 2700 NTC3D-20 3 8 0.055 ≈24 ≈113 820/3300 2700 NTC5D-20 5 7 0.087 ≈24 ≈113 820/3300 2800 NTC8D-20 8 6 0.142 ≈24 ≈113 820/3300 2950 NTC10D-20 10 6 0.162 ≈24 ≈113 820/3300 2950 NTC16D-20 16	NTC18D-15	18	4	0.288	≈18	≈86	330/1200	2950	
NTC47D-15 47 3 0.68 ≈18 ≈86 220/820 3200 NTC50D-15 50 3 0.72 ≈18 ≈86 220/820 3200 NTC1.3D-20 1.3 9 0.037 ≈24 ≈113 820/3300 2600 NTC1.5D-20 1.5 9 0.037 ≈24 ≈113 820/3300 2600 NTC2.5D-20 2.5 8 0.049 ≈24 ≈113 820/3300 2700 NTC3D-20 3 8 0.055 ≈24 ≈113 820/3300 2700 NTC5D-20 5 7 0.087 ≈24 ≈113 820/3300 2800 NTC8D-20 8 6 0.142 ≈24 ≈113 820/3300 2950 NTC10D-20 10 6 0.162 ≈24 ≈113 820/3300 2950 NTC16D-20 16 5 0.212 ≈24 ≈113 820/3300 3200	NTC20D-15	20	4	0.288	≈18	≈86	220/820	2950	
NTC50D-15 50 3 0.72 ≈18 ≈86 220/820 3200 NTC1.3D-20 1.3 9 0.037 ≈24 ≈113 820/3300 2600 NTC1.5D-20 1.5 9 0.037 ≈24 ≈113 820/3300 2600 NTC2.5D-20 2.5 8 0.049 ≈24 ≈113 820/3300 2700 NTC3D-20 3 8 0.055 ≈24 ≈113 820/3300 2700 NTC5D-20 5 7 0.087 ≈24 ≈113 820/3300 2800 NTC8D-20 8 6 0.142 ≈24 ≈113 820/3300 2950 NTC10D-20 10 6 0.162 ≈24 ≈113 820/3300 2950 NTC16D-20 16 5 0.212 ≈24 ≈113 820/3300 3200	NTC30D-15	30	3.5	0.438	≈18	≈86	220/820	2950	
NTC1.3D-20 1.3 9 0.037 ≈24 ≈113 820/3300 2600 NTC1.5D-20 1.5 9 0.037 ≈24 ≈113 820/3300 2600 NTC2.5D-20 2.5 8 0.049 ≈24 ≈113 820/3300 2700 NTC3D-20 3 8 0.055 ≈24 ≈113 820/3300 2700 NTC5D-20 5 7 0.087 ≈24 ≈113 820/3300 2800 NTC8D-20 8 6 0.142 ≈24 ≈113 820/3300 2950 NTC10D-20 10 6 0.162 ≈24 ≈113 820/3300 2950 NTC16D-20 16 5 0.212 ≈24 ≈113 820/3300 3200	NTC47D-15	47	3	0.68	≈18	≈86	220/820	3200	
NTC1.5D-20 1.5 9 0.037 ≈24 ≈113 820/3300 2600 NTC2.5D-20 2.5 8 0.049 ≈24 ≈113 820/3300 2700 NTC3D-20 3 8 0.055 ≈24 ≈113 820/3300 2700 NTC5D-20 5 7 0.087 ≈24 ≈113 820/3300 2800 NTC8D-20 8 6 0.142 ≈24 ≈113 820/3300 2950 NTC10D-20 10 6 0.162 ≈24 ≈113 820/3300 2950 NTC16D-20 16 5 0.212 ≈24 ≈113 820/3300 3200	NTC50D-15	50	3	0.72	≈18	≈86	220/820	3200	
NTC2.5D-20 2.5 8 0.049 ≈24 ≈113 820/3300 2700 NTC3D-20 3 8 0.055 ≈24 ≈113 820/3300 2700 NTC5D-20 5 7 0.087 ≈24 ≈113 820/3300 2800 NTC8D-20 8 6 0.142 ≈24 ≈113 820/3300 2950 NTC10D-20 10 6 0.162 ≈24 ≈113 820/3300 2950 NTC16D-20 16 5 0.212 ≈24 ≈113 820/3300 3200	NTC1.3D-20	1.3	9	0.037	≈24	≈113	820/3300	2600	
NTC3D-20 3 8 0.055 ≈24 ≈113 820/3300 2700 NTC5D-20 5 7 0.087 ≈24 ≈113 820/3300 2800 NTC8D-20 8 6 0.142 ≈24 ≈113 820/3300 2950 NTC10D-20 10 6 0.162 ≈24 ≈113 820/3300 2950 NTC16D-20 16 5 0.212 ≈24 ≈113 820/3300 3200	NTC1.5D-20	1.5	9	0.037	≈24	≈113	820/3300	2600	
NTC5D-20 5 7 0.087 ≈24 ≈113 820/3300 2800 NTC8D-20 8 6 0.142 ≈24 ≈113 820/3300 2950 NTC10D-20 10 6 0.162 ≈24 ≈113 820/3300 2950 NTC16D-20 16 5 0.212 ≈24 ≈113 820/3300 3200	NTC2.5D-20	2.5	8	0.049	≈24	≈113	820/3300	2700	
NTC8D-20 8 6 0.142 ≈24 ≈113 820/3300 2950 NTC10D-20 10 6 0.162 ≈24 ≈113 820/3300 2950 NTC16D-20 16 5 0.212 ≈24 ≈113 820/3300 3200	NTC3D-20	3	8	0.055	≈24	≈113	820/3300	2700	
NTC10D-20 10 6 0.162 ≈24 ≈113 820/3300 2950 NTC16D-20 16 5 0.212 ≈24 ≈113 820/3300 3200	NTC5D-20	5	7	0.087	≈24	≈113	820/3300	2800	
NTC16D-20 16 5 0.212 ≈24 ≈113 820/3300 3200	NTC8D-20	8	6	0.142	≈24	≈113	820/3300	2950	
	NTC10D-20	10	6	0.162	≈24	≈113	820/3300	2950	
NTC20D-20 20 4 0.231 ≈24 ≈113 820/3300 3200	NTC16D-20	16	5	0.212	≈24	≈113	820/3300	3200	
	NTC20D-20	20	4	0.231	≈24	≈113	820/3300	3200	



Storage condition

Temperature	-10℃~+40℃
Humidity	≤70%RH
Term	≤12 months (First-in/ First-out)
Place	 Do not exposing the components to the following conditions, otherwise, it may result in deterioration of characteristics Corrosive gas or deoxidizing gas Flammable and explosive gases Oil, water and chemical liquid Under the sunlight

Notes: Do not apply the components under the following conditions, otherwise, it may result in deterioration of characteristics, destruction of components orin the worst case to catching fire:1. Exceeding Imax 2. Exceeding rated temperature range 3. Inferior thermal dissipation, Due to badly inferior thermal dissipation, some part of the components body will become overheated and then be damaged

properties of products

Mechanical Characteristics							
Item	Specification	Test Conditions & Methods					
Solder-ability	The terminals shall be uniformly tinned, and its area≥95%	Dipping the NTC terminals to a depth of 15mm in a soldering bath of 240-245℃ and to the place of 6mm far from NTC body for 2-3s (See IEC68-2-20 /GB2423.28 Ta)					
Resistance To Soldering Heat	No visible mechanical damage. ΔR/RN ≤20% (ΔR = RN-RN')	Dipping the NTC terminals to a depth of 15mm in a soldering bath of 265±5°C and to the place for 6mm below from NTC body for 10±1s.After recovering 4-5h under 25±2°C. The rated zero power resistance value RN' shall be measured. (See IEC68-2-20 /GB2423.28 Tb)					

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Strength of lead terminal	No break out ΔR/RN ≤20% (ΔR = RN-RN')	Fasten the body and apply a force gradually to each lead until 10N and then keep for 10sec, Hold body and apply a force to each lead until 90°slowly at 5N in the direction of lead axis and then keep for 10sec, and do this in the opposite direction repeat for other terminal. After recovering 4~5h under 25±2°C, the rated zero power resistance value RN' shall be measured. (See IEC68-2-21/GB2423.29 Ua / Ub)
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Electrical Characteristics							
Item	Specification	Test Conditions & Methods					
Rated Zero-Power Resistance RN (Ω)	RN±20%	Ambient temp. Range:25℃±2℃(TA). Testing voltage: 1.5VDC After placing for 1~2 hours under TA, the resistance value shall be measured					
Thermal Dissipation Constant δ (mW/ $^\circ$ C)	See the main technical parameter list	The thermal dissipation constant(δ) could be calculated by the ratio of a change in power dissipation(ΔP) of the thermistor to a change in temperature(ΔT) of the thermistor at a specified ambient temperature					
Thermal Time Constant T(s)	See the main technical parameter list	The time(τ shall be measured within which the temperature change of NTC thermistor is reached at 63.2% of the ambient temperature change under zero power condition					
Material Constant B	B=T1T2/(T2- T1) × Ln (R1/R2)	R1 , R2 is zero-power resistance at T1 , T2 T1 = 298.15 K(25°C) T2 = 323.15 K(50°C)					
Max. Steady State Current (A)	visible mechanical damage. ΔRN / RN ≤20% (ΔR = RN-RN')	ambient temperature:25℃±2℃ Testing Time: min 100h					
Reliability Test							
Item	Specification	Test Conditions & Methods					
Temp. Cycling Testing	No visible mechanical damage. ΔRN / RN ≤20% (ΔR = RN-RN')	Ta:-40±3°C/30min→25±2°C/5min→Tb:200±3°C/30min→25±2°C/5min Cycles: 5times After recovering 4~5 h under 25±2°C, the rated zero power resistance value RN' shall be measured.					

NTC Series

NTC Series

Electrical Cycling Testing	No visible mechanical damage. ΔRN / RN ≤20% (ΔR = RN-RN')	Ambient temp. Range:25°C±2°C. Cycles: 1,000times On / Off: 1m / 5m Test Current: 6.0A After recovering 4~5h under 25±2°C, the rated zero power resistance value RN' shall be measured.
LoadLife (Endurance) Testing	No visible mechanical damage. ΔRN / RN ≤20% (ΔR = RN-RN')	Ambient temp. Range:25°C±2°C; 6.0A/ 1,000±24h After recovering 4~5 h under 25±2°C, the rated zero power resistance value RN' shall be measured.
Humidity Testing	No visible mechanical damage. ΔRN / RN ≤20% (ΔR = RN-RN')	Ambient temp. range: 40°C±2°C,R.H.:93±3%, Energized time:1000±24 h After recovering 4~5 h under 25±2°C, the rated zero power resistance value RN' shall be measured

Graph of Characteristics

Figure 1 - Graph of Resistance vs. Temperature

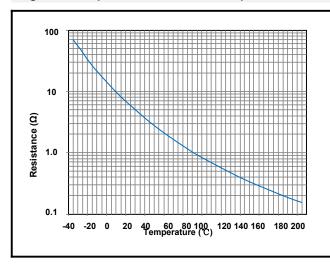
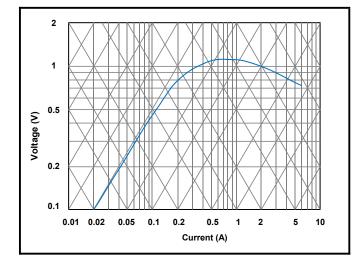
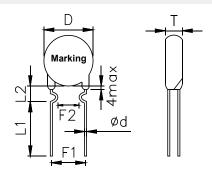


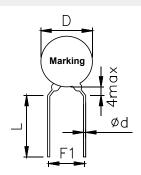
Figure 2 - Graph of Voltage vs. Current



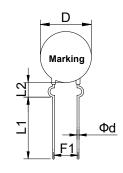
Product Dimensions



I Type(内弯脚)



S Type(直线脚)



O Type (外弯脚)

	Dimensions (mm)									
Dimension	Type	D(max)	(··· ···) T (··· ···)	Фd±0.1	F1±1	1±1 F2±1.5	Straight Lead Wire	Curved Lead Wire		
	Туре	D(IIIax)	T(max)	Ψu±0.1	FIII	F2±1.5	L (±1)	L1 (±0.5)	L2 (±2)	
NTCxxD-5	S	7	5	0.55	5	/	20~25	/	/	
NTCxxD-7	I	9	5	0.55	5	3	20~25	20~25	4	
NTCxxD-9	I	11	5.5	0.75	7.5	5	20~25	20~25	4	
NTCxxD-11	I	13	5.5	0.75	7.5	5	20~25	20~25	4	
NTCxxD-13	1	15.5	6	0.75	7.5	5	20~25	20~25	4	
NTCxxD-15	I	17.5	6	0.75	7.5	5	20~25	20~25	4	
NTCxxD-20	S	22.5	7	1.00	10	/	20~25	/	/	

Packaging

Dimension	Bag (pcs)	Inside the box (pcs)	carton (pcs)
NTCxxD-5	1000	3000	18000
NTCxxD-7	1000	3000	18000
NTCxxD-9	500	2000	12000
NTCxxD-11	500	1500	9000
NTCxxD-13	250	1000	6000
NTCxxD-15	250	1000	6000
NTCxxD-20	100	400	2400