



Power Thermistor

Features

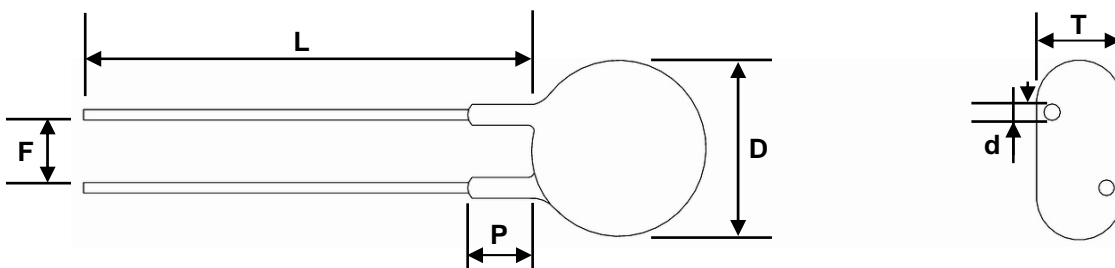
- Low steady resistance and Accompanying power loss
- Small size
- Low cost
- Rating temperature -30~+160°C



Applications

- Control of the inrush current in switching power suppliers, Fluorescent lamp, inverters, motors, etc.

Dimensions in mm



Parts	D	L	F	P	T	d
NTP5D	6 ± 1.5	25 min.	2.5 ± 1	4 max.	5 max.	0.45 ± 0.05
NTP7D	8 ± 1.5	25 min.	5 ± 1	4 max.	5 max.	0.6 ± 0.05
NTP9D	10 ± 1.5	25 min.	7.5 ± 1	4 max.	5.5 max.	0.8 ± 0.05
NTP11D	12 ± 1.5	25 min.	7.5 ± 1	4 max.	5.5 max.	0.8 ± 0.05
NTP13D	14 ± 1.5	25 min.	7.5 ± 1	4 max.	6 max.	0.8 ± 0.05
NTP15D	16 ± 1.5	25 min.	10(7.5) ± 1	4 max.	6 max.	0.8 ± 0.05
NTP20D	21 ± 1.5	25 min.	10 ± 1	4 max.	7 max.	1.0 ± 0.05



Specifications

Part number	Normal no load resistance $R_{25}^{1)}$ (Ω)	Normal β constant $B_{25/50}^{2)}$ (K)	Dissipation factor (mW/°C)	Thermal time constant (s)	Max. permissible current at 25°C (A)
NTP5D-100-2750B	10	2750	≥ 6	≤ 20	0.7
NTP5D-150-2800B	15	2800	≥ 6	≤ 20	0.5
NTP5D-470-3100B	47	3100	≥ 6	≤ 20	0.3
NTP5D-201-3300B	200	3300	≥ 6	≤ 18	0.1
NTP5D-103-3950B	10000	3950	≥ 4	≤ 20	-
NTP7D-050-2700B	5	2700	≥ 6	≤ 30	2
NTP7D-100-2800B	10	2800	≥ 9	≤ 27	1
NTP7D-220-3000B	22	3000	≥ 9	≤ 27	0.6
NTP9D-030-2700B	3	2700	≥ 11	≤ 35	4
NTP9D-050-2750B	5	2750	≥ 11	≤ 34	3
NTP9D-080-2800B	8	2800	≥ 11	≤ 32	2
NTP9D-100-2900B	10	2900	≥ 11	≤ 32	2
NTP9D-160-3000B	16	3000	≥ 11	≤ 31	1
NTP9D-220-3000B	22	3000	≥ 11	≤ 30	1
NTP9D-500-3250B	50	3250	≥ 11	≤ 30	1
NTP11D-050-2800B	5	2800	≥ 13	≤ 45	4
NTP11D-080-3000B	8	3000	≥ 14	≤ 47	3
NTP11D-100-3000B	10	3000	≥ 14	≤ 47	3
NTP11D-160-3100B	16	3100	≥ 14	≤ 50	2
NTP13D-2R5-2800B	2.5	2800	≥ 13	≤ 60	6
NTP13D-030-2800B	3	2800	≥ 14	≤ 60	6
NTP13D-050-2900B	5	2900	≥ 15	≤ 68	5
NTP13D-080-3000B	8	3000	≥ 15	≤ 60	4
NTP13D-470-3300B	47	3300	≥ 17	≤ 65	2
NTP15D-2R5-2800B	2.5	2800	≥ 17	≤ 76	7
NTP15D-030-2900B	3	2900	≥ 18	≤ 76	7
NTP15D-050-3000B	5	3000	≥ 20	≤ 76	6
NTP15D-100-3100B	10	3100	≥ 20	≤ 75	5
NTP15D-160-3250B	16	3250	≥ 21	≤ 70	4
NTP15D-200-3250B	20	3250	≥ 17	≤ 86	4
NTP15D-470-3300B	47	3300	≥ 21	≤ 86	3
NTP20D-030-2900B	3	2900	≥ 24	≤ 113	8
NTP20D-050-3000B	5	3000	≥ 23	≤ 112	7
NTP20D-080-3100B	8	3100	≥ 25	≤ 115	6
NTP20D-100-3250B	10	3250	≥ 24	≤ 113	6
NTP20D-160-3250B	16	3250	≥ 25	≤ 113	5

¹⁾ R_{25} : rated zero-power resistance value at 25°C, the resistance tolerance is $\pm 25\%$ for standard device, also available in 10%, 15%, 20% tolerance.

²⁾ β constant: determined by rated zero-power resistance at 25°C and 50°C.



Type No.

NTP5D - XXX - XXXX X - X

① ② ③ ④ ⑤

- ① Series name
- ② Zero-power resistance(R_{25}), for example:
 - 2R5 ----- 2.5 Ω
 - 030 ----- 3 Ω
 - 470 ----- 47 Ω
 - 201 ----- 200 Ω
 - 103 ----- 10 K Ω
- ③ B value, for example:
 - 2800 ----- B value is 2800K
 - 3250 ----- B value is 3250K
- ④ Type of B value, for example:
 - A ----- $B_{0/50}$
 - B ----- $B_{25/50}$
 - C ----- $B_{25/85}$
- ⑤ Tolerance of R_{25} , for example:
 - F ----- Tolerance of R_{25} is 1%
 - G ----- Tolerance of R_{25} is 2%
 - H ----- Tolerance of R_{25} is 3%
 - J ----- Tolerance of R_{25} is 5%
 - K ----- Tolerance of R_{25} is 10%
 - L ----- Tolerance of R_{25} is 15%
 - M ----- Tolerance of R_{25} is 20%
 - V ----- Tolerance of R_{25} is 25%