

# Specification

Brand : SAMKYUNG

Type : NTC Power Thermistor

P/N : NTC-10D-9(F)

Customer : Alltronics Tech. Mftg. Ltd.

Customer's Approval

\_\_\_\_\_  
Authorized Signature and Stamp Date

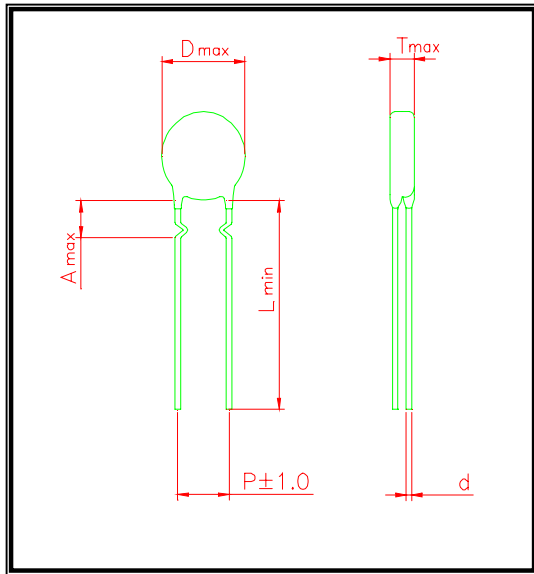
Microtech's Approval



\_\_\_\_\_  
Authorized Signature and Stamp Date

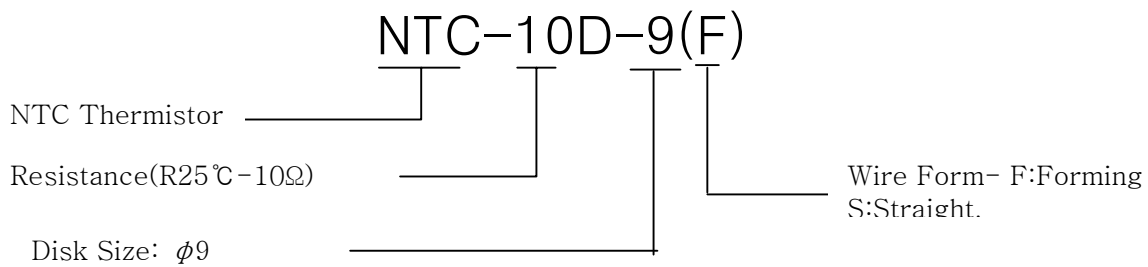
## ILLUSTRATION

### 1) DIMENSION



DIMENSION(mm)	
D max	10.5
T max	4.5
P	5.0±0.5
L min	30
A max	5
d	Φ0.6

### 2) PART NUMBER



### 3) MATERIALS

Coating Material : Silicone Coating

Color of coating : Black

Lead wire : Sn/Cu coated copper wire

Marking : Stamped-on resistance value(U.V Ink)

#### 4) ELECTRICAL CHARACTERISTICS

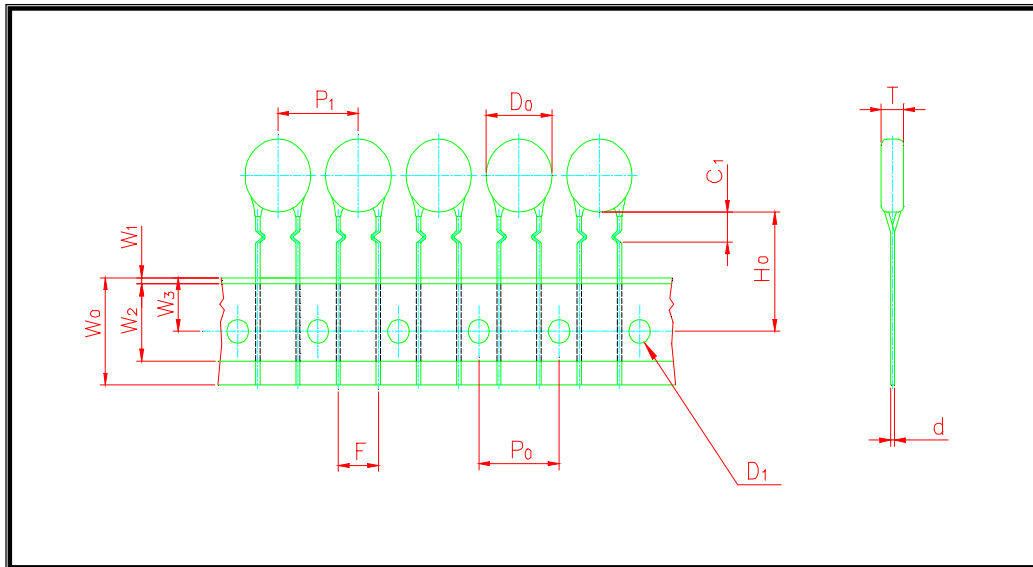
	ITEM	CONDITIONS	SPECIFICATIONS
4-1	Resistance	Resistance at 25℃	10Ω±20%
4-2	B Value	B(R25/R85)	3000 K±8%
4-3	Insulation resistance	DC 500V	100 MΩ up
4-4	Thermal time constanc	Still air	42sec Max.
4-5	Dissipation constance	Still air	12 mW/℃
4-6	Max. Steady Current	25℃	3.2A

#### RELIABILITY TEST

- High temperature storage	125℃ 1000hrs	±5%
- Lower temperature storage	-25℃ 1000hrs	±5%
- High humidity storage	40℃/95%/1000hrs	±5%
- Thermal shock	-10 ~ 100℃/10cycles	±5%

## TAPING SPECIFICATION

### - SHAPE & DIMENSION



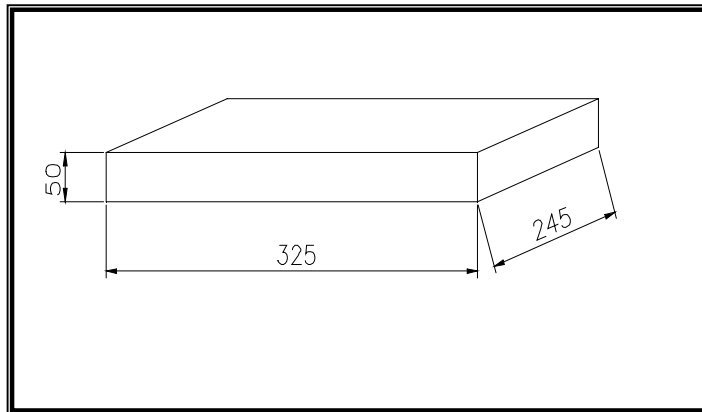
SYMBOL	DIMENSIONS	REMARKS
P0	12.7	$\pm 0.5$
P1	12.7	$\pm 0.5$
F	5.0	
H0	Min 20	
C1	5	
D0	10.5	
D1	4.0	$\pm 0.2$
d	0.60	
W0	18	
W1	2	
W2	13	
W3	9	
T	Max 4.5	

## PACKING SPEC.

### 1. TAPING BOX

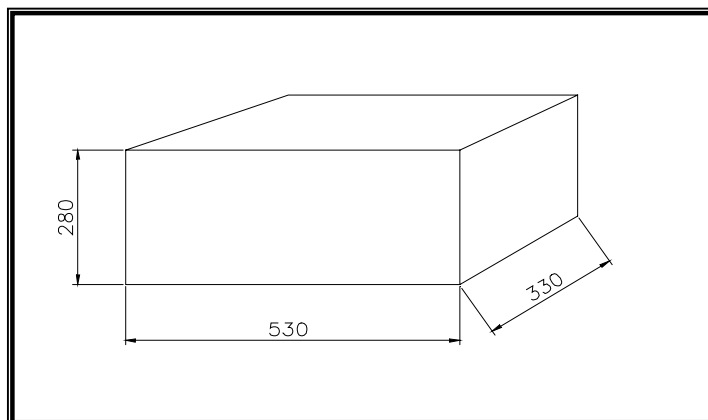
#### 1) INNER PACKING BOX

- QUANTITY : 1,500EA/BOX
- DIMENSION : 325X245X50 (mm)



#### 2) OUT PACKING BOX

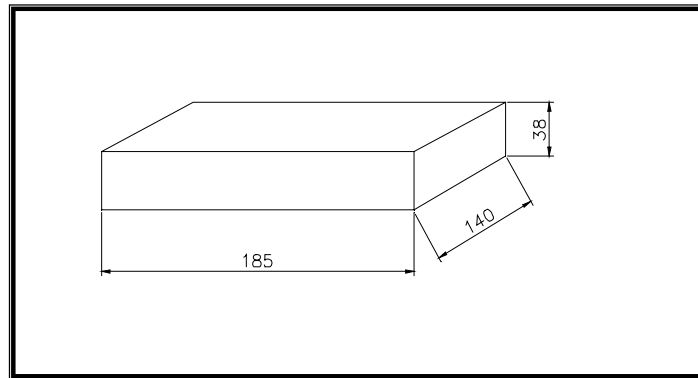
- QUANTITY : 10(INNERBOX) X 1,500EA = 15,000PCS/BOX
- DIMENSION : 530X330X280 (mm)



## 2. BULK BOX

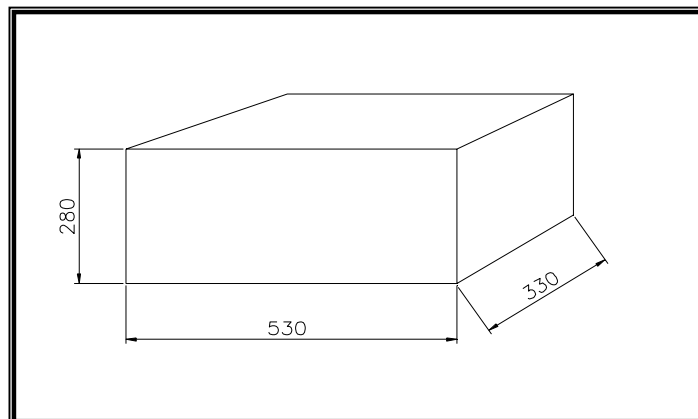
### 1) INNER PACKING

- Q'TY : 1,000 PCS/VINYL
- DIMENSION : 185X140X38(mm)



### 2) OUT PACKING

- Q'TY : 25,000 PCS/BOX
- DIMENSION : 530X330X280 (mm)



**R/T DATA**

MODEL : NTC-10D-9(F)

DATE : JUN. 24, 2005

B(25/85) = 3000 K

UNIT : OHM

Temp	STD	Temp	STD	Temp	STD	Temp	STD
-20	58.0559	20	11.8383	60	3.5364	100	1.3688
-19	55.4541	21	11.4402	61	3.4439	101	1.3401
-18	52.9879	22	11.0580	62	3.3544	102	1.3123
-17	50.6493	23	10.6910	63	3.2677	103	1.2851
-16	48.4310	24	10.3386	64	3.1837	104	1.2587
-15	46.3259	25	10.0000	65	3.1024	105	1.2329
-14	44.3275	26	9.6747	66	3.0236	106	1.2078
-13	42.4297	27	9.3620	67	2.9473	107	1.1833
-12	40.6267	28	9.0614	68	2.8733	108	1.1595
-11	38.9133	29	8.7723	69	2.8016	109	1.1362
-10	37.2843	30	8.4943	70	2.7321	110	1.1136
-9	35.7351	31	8.2268	71	2.6647	111	1.0915
-8	34.2612	32	7.9694	72	2.5993	112	1.0699
-7	32.8585	33	7.7217	73	2.5359	113	1.0489
-6	31.5231	34	7.4832	74	2.4744	114	1.0284
-5	30.2514	35	7.2536	75	2.4148	115	1.0084
-4	29.0398	36	7.0324	76	2.3569	116	0.9889
-3	27.8852	37	6.8193	77	2.3007	117	0.9699
-2	26.7845	38	6.6140	78	2.2461	118	0.9513
-1	25.7349	39	6.4162	79	2.1932	119	0.9332
0	24.7336	40	6.2254	80	2.1418	120	0.9155
1	23.7782	41	6.0415	81	2.0918	121	0.8983
2	22.8662	42	5.8642	82	2.0433	122	0.8814
3	21.9955	43	5.6931	83	1.9962	123	0.8649
4	21.1638	44	5.5280	84	1.9505	124	0.8489
5	20.3692	45	5.3687	85	1.9060	125	0.8332
6	19.6098	46	5.2150	86	1.8628	126	0.8179
7	18.8839	47	5.0666	87	1.8208	127	0.8029
8	18.1897	48	4.9233	88	1.7800	128	0.7883
9	17.5257	49	4.7849	89	1.7403	129	0.7740
10	16.8904	50	4.6512	90	1.7017	130	0.7600
11	16.2823	51	4.5220	91	1.6641	131	0.7464
12	15.7001	52	4.3972	92	1.6276	132	0.7331
13	15.1426	53	4.2766	93	1.5921	133	0.7200
14	14.6086	54	4.1600	94	1.5575	134	0.7073
15	14.0970	55	4.0472	95	1.5239	135	0.6949
16	13.6066	56	3.9382	96	1.4912	136	0.6827
17	13.1365	57	3.8327	97	1.4593	137	0.6708
18	12.6856	58	3.7307	98	1.4283	138	0.6592
19	12.2532	59	3.6319	99	1.3981	139	0.6478
20	11.8383	60	3.5364	100	1.3688	140	0.6367