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**SPECIFICATION FOR APPROVAL**

CUSTOMER

CERTIFIED
MODEL/TYPE

TTC03-103

PART NO.

TTC3A103H34D1EY(RoHS)

APPLICATION

CUSTOMER P/N

ISSUE DATE

Feb.24.2020

REV. NO.

REV. DATE

FOR CUSTOMER APPROVAL	CHECKED BY
	<i>Haili Gong</i>
	APPROVED BY
	<i>Huaifang Zhang</i>





REVISED RECORD SHEET

REV. NO	REV. DATE	REVISED CONTENT



INDEX	Page
■ Part Number Code	1
■ Structure and Dimensions	2
■ Electrical Characteristics	2
■ Reliability	3
■ Soldering Recommendation	4
■ Max. Power Dissipation Derating Curve	5
■ RoHS Compliant Declaration	5
■ Warehouse Storage Conditions of Products	5
■ Safety Approvals	6
■ Certificates	6
■ R-T Table	7~11

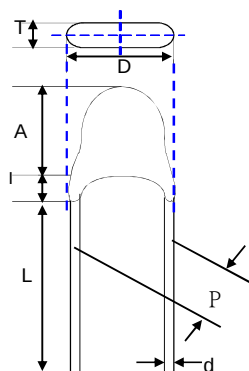
Part Number Code

Example :

TTC **3** **A** **103** **H** **34D** **1** **E** **Y**
(1) **(2)** **(3)** **(4)** **(5)** **(6)** **(7)** **(8)** **(9)**

No.	Item	Digit	Specification
(1)	Product Type	TTC	Thinking NTC thermistor TTC type
(2)	Body Size	3	φ 4 mm x H 5.0 mm (max.)
(3)	Definition of B Value	A	B _{25/85}
(4)	Zero Power Resistance at 25°C	103	10 x 10 ³ Ω = 10 KΩ
(5)	Tolerance of R _{25°C}	H	± 3%
(6)	B Value	34D	3435K
(7)	Tolerance of B Value	1	± 1%
(8)	Appearance	E	Straight lead epoxy coating (Green)
(9)	Optional Suffix	Y	RoHS compliance

Structure and Dimensions



(unit:mm)

D	d	P	A	I max	L	T
2.5~4.0	0.5±0.02	2.54±0.5	2.5~5.0	3.0	30~40	1.5~3.0

Electrical Characteristics

Part No.	Zero Power Resistance at 25℃	Tolerance of $R_{25℃}$	$B_{25/85}$ Value	Tolerance of B Value	Max. Power Dissipation at 25℃	Dissipation Factor	Thermal Time Constant	Operating Temperature Range
	$R_{25℃}$ (K Ω)	(± %)	(K)	(± %)	P_{max} (mW)	δ (mW/℃)	τ (sec.)	$T_L \sim T_U$ (℃)
TTC3A103H34D1EY	10	3	3435	1	150	≥ 2.5	≤ 18	-40 ~+125

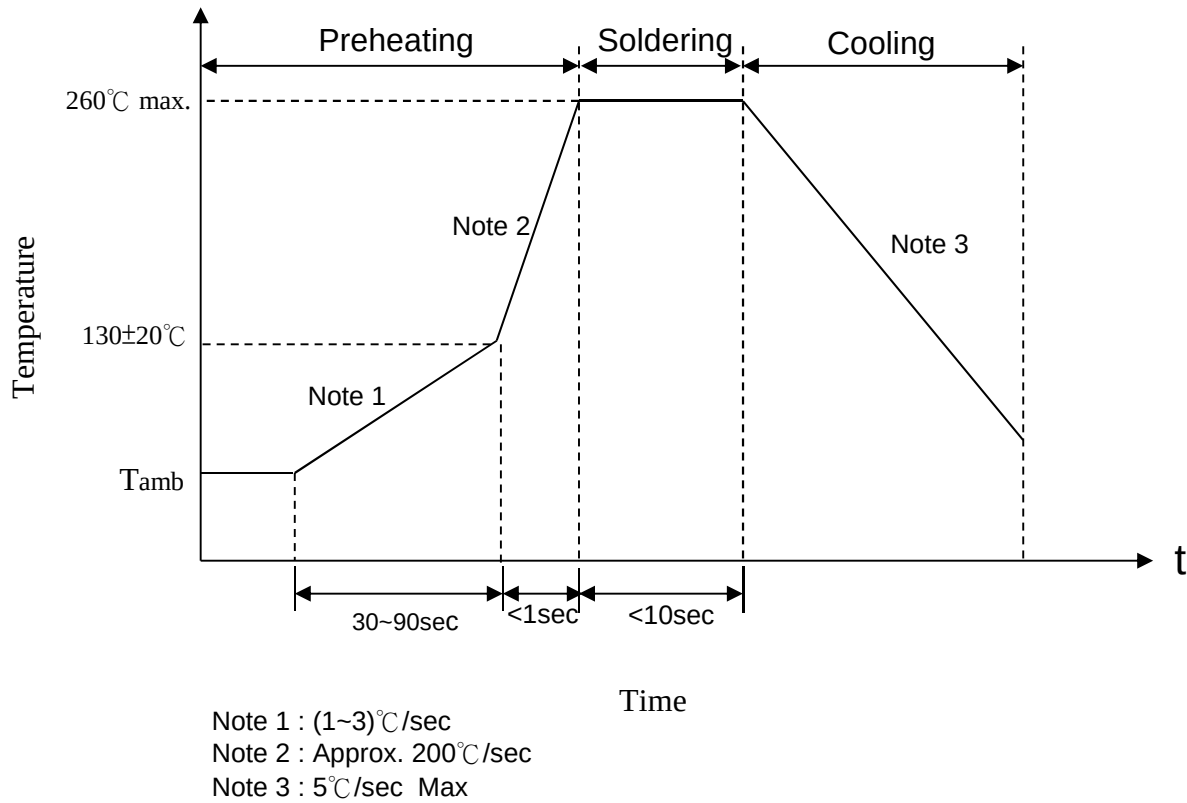


Reliability

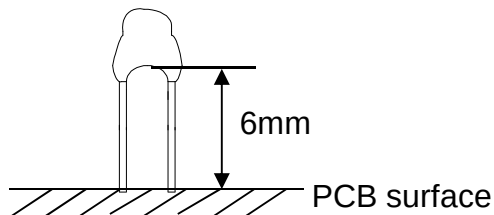
Item	Standard	Test conditions / Methods	Specifications															
Tensile Strength of Terminals	IEC60068-2-21	Gradually applying the force specified and keeping the unit fixed for 10±1 sec. <table><tr><td>Terminal diameter (mm)</td><td>Force (Kg)</td></tr><tr><td>0.3<d ≤ 0.5</td><td>0.5</td></tr><tr><td>0.5<d ≤ 0.8</td><td>1.0</td></tr></table>	Terminal diameter (mm)	Force (Kg)	0.3<d ≤ 0.5	0.5	0.5<d ≤ 0.8	1.0	No visible damage									
Terminal diameter (mm)	Force (Kg)																	
0.3<d ≤ 0.5	0.5																	
0.5<d ≤ 0.8	1.0																	
Bending Strength of Terminals	IEC60068-2-21	Hold specimen and apply the force specified below to each lead. Bend the specimen to 90°, then return to the original position. Repeat the procedure in the opposite direction. <table><tr><td>Terminal diameter (mm)</td><td>Force (Kg)</td></tr><tr><td>0.3<d ≤ 0.5</td><td>0.25</td></tr><tr><td>0.5<d ≤ 0.8</td><td>0.50</td></tr></table>	Terminal diameter (mm)	Force (Kg)	0.3<d ≤ 0.5	0.25	0.5<d ≤ 0.8	0.50	No visible damage									
Terminal diameter (mm)	Force (Kg)																	
0.3<d ≤ 0.5	0.25																	
0.5<d ≤ 0.8	0.50																	
Solderability	IEC60068-2-20	245 ± 3 °C , 3 ± 0.3 sec	At least 95% of terminal electrode is covered by new solder															
Resistance to Soldering Heat	IEC60068-2-20	260 ± 3 °C , 10 ± 1 sec	No visible damage ΔR ₂₅ /R ₂₅ ≤ 3 %															
High Temperature Storage	IEC60068-2-2	125 ± 5 °C , 1000 ± 24 hrs	No visible damage ΔR ₂₅ /R ₂₅ ≤ 5 %															
Damp Heat, Steady State	IEC 60068-2-78	40 ± 2 °C , 9 0 ~ 95 % RH , 1000 ± 24 hrs	No visible damage ΔR ₂₅ /R ₂₅ ≤ 3 %															
Rapid Change of Temperature	IEC60068-2-14	The conditions shown below shall be repeated 5 cycles <table><tr><td>Step</td><td>Temperature (°C)</td><td>Period (minutes)</td></tr><tr><td>1</td><td>-40 ± 5</td><td>30 ± 3</td></tr><tr><td>2</td><td>Room temperature</td><td>5 ± 3</td></tr><tr><td>3</td><td>125 ± 5</td><td>30 ± 3</td></tr><tr><td>4</td><td>Room temperature</td><td>5 ± 3</td></tr></table>	Step	Temperature (°C)	Period (minutes)	1	-40 ± 5	30 ± 3	2	Room temperature	5 ± 3	3	125 ± 5	30 ± 3	4	Room temperature	5 ± 3	No visible damage ΔR ₂₅ /R ₂₅ ≤ 3 %
Step	Temperature (°C)	Period (minutes)																
1	-40 ± 5	30 ± 3																
2	Room temperature	5 ± 3																
3	125 ± 5	30 ± 3																
4	Room temperature	5 ± 3																
Max. Power Dissipation	IEC60539-1 4.26.3	25 ± 5 °C , Pmax. , 1000 ± 24 hrs	No visible damage ΔR ₂₅ /R ₂₅ ≤ 5 %															
Dissipation Factor (δ)	Specifcation	Dissipation factor is ration of thermistor's temperature change caused by its dissipation power under specific ambienttemperature. which stands for dissipation power for thermistor's increase of 1°C. δ =V*I / T2-T1(mW/°C)	≥ 2.5mW/°C															
Thermal Time Constant(τ)	Specifcation	The thermal time constant is a 63.2% change of thermistor's body temperature from its initial temperature (T0) tospecific temperature (T1) under zero-power conditions.	≤ 18Sec															

Soldering Recommendation

Wave Soldering Profile



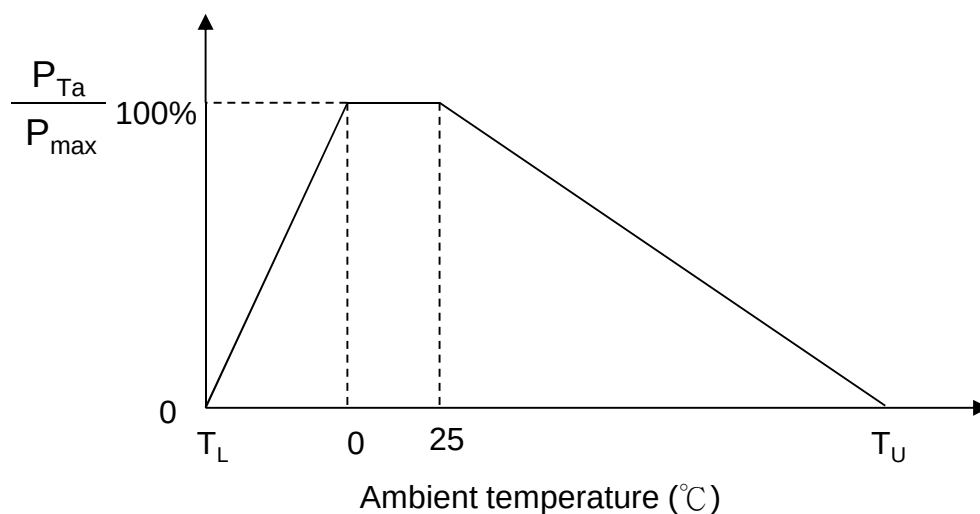
Caution: It has be better to keep the minimum distance as 6mm between the bottom of the thermistor body and PCB surface to prevent component damage.



Recommended Reworking Conditions with Soldering Iron

Item	Conditions
Temperature of Soldering Iron-tip	360°C (max.)
Soldering Time	3 sec (max.)
Distance from Thermistor	6 mm (min.)

Max. Power Dissipation Derating Curve



Note: T_L = Minimum operating temperature ($^{\circ}\text{C}$)

T_U = Maximum operating temperature ($^{\circ}\text{C}$)

For example :

Ambient temperature(T_a)=55 $^{\circ}\text{C}$

Maximum operating temperature(T_u)=125 $^{\circ}\text{C}$

$P_{Ta} = (T_u - T_a) / (T_u - 25) \times P_{max} = 70\% P_{max}$

RoHS Compliant Declaration

We hereby declare that the components delivered to your company are compliant with RoHS directive 2015/863/EU.

Warehouse Storage Conditions of Products

(I) Storage Conditions :

- 1.Storage Temperature : -10 $^{\circ}\text{C}$ ~+40 $^{\circ}\text{C}$
- 2.Relative Humidity : $\leq 75\% \text{RH}$
- 3.Keep away from corrosive atmosphere and sunlight

(II) Period of Storage : 1 year

Safety Approvals (Certified Model/Type :TTC03-103)



* UL 1434 / cUL recognized (File # E138827)



* CQC GB/T 6663.1-2007 recognized (File# CQC04001011945)

* CQC GB6663-86 recognized (File# CQC04001011966)



* TÜV recognized (File # R 50050155)

Certificates

- (1) IATF 16949 certificate
- (2) ISO 9001 certificate

Test Report

- (1) RoHS test report

R - T Table

Part No.:TTC3A103H34D1EY

R25=10KOhm $\pm 3\%$

B25/85 = 3435 K $\pm 1\%$

Temperature (°C)	Rmax. (KΩ)	Rnor. (KΩ)	Rmin. (KΩ)	Temperature Tol. (°C)		Resistance Tol. (%)	
-40	205.060	193.278	182.009	-1.10	1.10	6.1%	-5.8%
-39	194.090	183.037	172.459	-1.08	1.09	6.0%	-5.8%
-38	183.674	173.310	163.383	-1.07	1.08	6.0%	-5.7%
-37	173.836	164.116	154.800	-1.06	1.08	5.9%	-5.7%
-36	164.571	155.454	146.709	-1.05	1.07	5.9%	-5.6%
-35	155.858	147.302	139.091	-1.05	1.07	5.8%	-5.6%
-34	147.666	139.635	131.922	-1.05	1.07	5.8%	-5.5%
-33	139.964	132.422	125.173	-1.05	1.07	5.7%	-5.5%
-32	132.717	125.631	118.817	-1.04	1.07	5.6%	-5.4%
-31	125.893	119.234	112.826	-1.04	1.06	5.6%	-5.4%
-30	119.463	113.203	107.174	-1.04	1.06	5.5%	-5.3%
-29	113.398	107.511	101.838	-1.03	1.06	5.5%	-5.3%
-28	107.674	102.136	96.7967	-1.03	1.05	5.4%	-5.2%
-27	102.268	97.0582	92.0309	-1.03	1.05	5.4%	-5.2%
-26	97.1603	92.2575	87.5232	-1.02	1.04	5.3%	-5.1%
-25	92.3322	87.7173	83.2580	-1.02	1.04	5.3%	-5.1%
-24	87.7670	83.4221	79.2210	-1.01	1.03	5.2%	-5.0%
-23	83.4493	79.3578	75.3990	-1.01	1.03	5.2%	-5.0%
-22	79.3651	75.5114	71.7801	-1.00	1.02	5.1%	-4.9%
-21	75.5011	71.8705	68.3529	-1.00	1.02	5.1%	-4.9%
-20	71.8452	68.4240	65.1070	-0.99	1.02	5.0%	-4.8%
-19	68.3857	65.1611	62.0326	-0.99	1.01	4.9%	-4.8%
-18	65.1118	62.0717	59.1203	-0.98	1.01	4.9%	-4.8%
-17	62.0133	59.1464	56.3613	-0.98	1.01	4.8%	-4.7%
-16	59.0804	56.3761	53.7472	-0.98	1.00	4.8%	-4.7%
-15	56.3038	53.7522	51.2701	-0.97	1.00	4.7%	-4.6%
-14	53.6748	51.2666	48.9225	-0.97	1.00	4.7%	-4.6%
-13	51.1850	48.9116	46.6970	-0.97	0.99	4.6%	-4.5%
-12	48.8266	46.6797	44.5870	-0.96	0.99	4.6%	-4.5%
-11	46.5919	44.5640	42.5859	-0.96	0.99	4.6%	-4.4%
-10	44.4740	42.5578	40.6875	-0.96	0.98	4.5%	-4.4%
-9	42.4661	40.6550	38.8861	-0.95	0.98	4.5%	-4.4%
-8	40.5618	38.8495	37.1761	-0.95	0.98	4.4%	-4.3%
-7	38.7551	37.1359	35.5523	-0.94	0.97	4.4%	-4.3%
-6	37.0404	35.5088	34.0098	-0.94	0.97	4.3%	-4.2%
-5	35.4124	33.9632	32.5440	-0.94	0.97	4.3%	-4.2%
-4	33.8662	32.4946	31.1504	-0.93	0.96	4.2%	-4.1%
-3	32.3969	31.0984	29.8252	-0.93	0.96	4.2%	-4.1%
-2	31.0002	29.7707	28.5643	-0.93	0.96	4.1%	-4.1%
-1	29.6720	28.5076	27.3642	-0.92	0.95	4.1%	-4.0%

R - T Table

Part No.:TTC3A103H34D1EY

R25=10KOhm $\pm 3\%$

B25/85 = 3435 K $\pm 1\%$

Temperature (°C)	Rmax. (KΩ)	Rnor. (KΩ)	Rmin. (KΩ)	Temperature Tol. (°C)		Resistance Tol. (%)	
0	28.4084	27.3053	26.2215	-0.92	0.95	4.0%	-4.0%
1	27.2059	26.1607	25.1330	-0.91	0.94	4.0%	-3.9%
2	26.0609	25.0704	24.0958	-0.91	0.94	4.0%	-3.9%
3	24.9704	24.0315	23.1070	-0.90	0.93	3.9%	-3.8%
4	23.9313	23.0412	22.1642	-0.90	0.93	3.9%	-3.8%
5	22.9410	22.0969	21.2647	-0.89	0.92	3.8%	-3.8%
6	21.9967	21.1962	20.4064	-0.89	0.92	3.8%	-3.7%
7	21.0961	20.3368	19.5872	-0.88	0.91	3.7%	-3.7%
8	20.2369	19.5165	18.8049	-0.88	0.91	3.7%	-3.6%
9	19.4169	18.7334	18.0577	-0.87	0.90	3.6%	-3.6%
10	18.6341	17.9855	17.3438	-0.87	0.90	3.6%	-3.6%
11	17.8866	17.2710	16.6616	-0.86	0.89	3.6%	-3.5%
12	17.1727	16.5884	16.0095	-0.86	0.89	3.5%	-3.5%
13	16.4907	15.9360	15.3860	-0.85	0.88	3.5%	-3.5%
14	15.8390	15.3123	14.7898	-0.84	0.88	3.4%	-3.4%
15	15.2161	14.7160	14.2195	-0.84	0.87	3.4%	-3.4%
16	14.6207	14.1457	13.6738	-0.83	0.87	3.4%	-3.3%
17	14.0514	13.6002	13.1517	-0.83	0.86	3.3%	-3.3%
18	13.5069	13.0783	12.6520	-0.82	0.85	3.3%	-3.3%
19	12.9861	12.5790	12.1736	-0.82	0.85	3.2%	-3.2%
20	12.4879	12.1010	11.7157	-0.81	0.84	3.2%	-3.2%
21	12.0112	11.6436	11.2771	-0.80	0.84	3.2%	-3.1%
22	11.5549	11.2056	10.8571	-0.80	0.83	3.1%	-3.1%
23	11.1183	10.7863	10.4548	-0.79	0.83	3.1%	-3.1%
24	10.7002	10.3847	10.0693	-0.79	0.82	3.0%	-3.0%
25	10.3000	10.0000	9.70000	-0.78	0.81	3.0%	-3.0%
26	9.92418	9.63150	9.33905	-0.79	0.83	3.0%	-3.0%
27	9.56396	9.27844	8.99335	-0.81	0.84	3.1%	-3.1%
28	9.21864	8.94011	8.66220	-0.82	0.86	3.1%	-3.1%
29	8.88756	8.61585	8.34493	-0.84	0.87	3.2%	-3.1%
30	8.57007	8.30502	8.04092	-0.85	0.89	3.2%	-3.2%
31	8.26557	8.00701	7.74956	-0.87	0.90	3.2%	-3.2%
32	7.97349	7.72125	7.47027	-0.88	0.92	3.3%	-3.3%
33	7.69326	7.44720	7.20252	-0.90	0.93	3.3%	-3.3%
34	7.42436	7.18432	6.94578	-0.91	0.95	3.3%	-3.3%
35	7.16628	6.93211	6.69955	-0.93	0.96	3.4%	-3.4%
36	6.91856	6.69010	6.46337	-0.94	0.98	3.4%	-3.4%
37	6.68072	6.45784	6.23677	-0.96	0.99	3.5%	-3.4%
38	6.45234	6.23488	6.01933	-0.98	1.01	3.5%	-3.5%
39	6.23299	6.02082	5.81064	-0.99	1.02	3.5%	-3.5%

R - T Table

Part No.:TTC3A103H34D1EY

R25=10KOhm $\pm 3\%$ B25/85 = 3435 K $\pm 1\%$

Temperature (°C)	Rmax. (KΩ)	Rnor. (KΩ)	Rmin. (KΩ)	Temperature Tol. (°C)		Resistance Tol. (%)	
40	6.02228	5.81527	5.61031	-1.01	1.04	3.6%	-3.5%
41	5.81983	5.61783	5.41796	-1.02	1.05	3.6%	-3.6%
42	5.62527	5.42816	5.23325	-1.04	1.07	3.6%	-3.6%
43	5.43827	5.24592	5.05582	-1.06	1.09	3.7%	-3.6%
44	5.25848	5.07077	4.88536	-1.07	1.10	3.7%	-3.7%
45	5.08560	4.90240	4.72155	-1.09	1.12	3.7%	-3.7%
46	4.91933	4.74053	4.56412	-1.10	1.13	3.8%	-3.7%
47	4.75937	4.58486	4.41276	-1.12	1.15	3.8%	-3.8%
48	4.60546	4.43512	4.26723	-1.14	1.17	3.8%	-3.8%
49	4.45734	4.29106	4.12726	-1.15	1.18	3.9%	-3.8%
50	4.31476	4.15243	3.99262	-1.17	1.20	3.9%	-3.8%
51	4.17748	4.01901	3.86306	-1.19	1.21	3.9%	-3.9%
52	4.04528	3.89056	3.73838	-1.20	1.23	4.0%	-3.9%
53	3.91794	3.76687	3.61836	-1.22	1.25	4.0%	-3.9%
54	3.79526	3.64774	3.50281	-1.24	1.26	4.0%	-4.0%
55	3.67704	3.53299	3.39153	-1.26	1.28	4.1%	-4.0%
56	3.56309	3.42241	3.28434	-1.27	1.30	4.1%	-4.0%
57	3.45324	3.31585	3.18107	-1.29	1.31	4.1%	-4.1%
58	3.34731	3.21313	3.08155	-1.31	1.33	4.2%	-4.1%
59	3.24516	3.11409	2.98564	-1.32	1.35	4.2%	-4.1%
60	3.14661	3.01859	2.89317	-1.34	1.36	4.2%	-4.2%
61	3.05153	2.92647	2.80401	-1.36	1.38	4.3%	-4.2%
62	2.95978	2.83760	2.71802	-1.37	1.39	4.3%	-4.2%
63	2.87121	2.75185	2.63507	-1.39	1.41	4.3%	-4.2%
64	2.78572	2.66909	2.55505	-1.41	1.43	4.4%	-4.3%
65	2.70316	2.58920	2.47782	-1.43	1.44	4.4%	-4.3%
66	2.62343	2.51208	2.40328	-1.44	1.46	4.4%	-4.3%
67	2.54642	2.43760	2.33133	-1.46	1.48	4.5%	-4.4%
68	2.47201	2.36567	2.26185	-1.48	1.49	4.5%	-4.4%
69	2.40012	2.29618	2.19476	-1.50	1.51	4.5%	-4.4%
70	2.33064	2.22905	2.12996	-1.51	1.53	4.6%	-4.4%
71	2.26348	2.16418	2.06736	-1.53	1.54	4.6%	-4.5%
72	2.19855	2.10148	2.00688	-1.55	1.56	4.6%	-4.5%
73	2.13578	2.04088	1.94844	-1.57	1.58	4.6%	-4.5%
74	2.07507	1.98229	1.89195	-1.58	1.59	4.7%	-4.6%
75	2.01635	1.92564	1.83735	-1.60	1.61	4.7%	-4.6%
76	1.95955	1.87086	1.78457	-1.62	1.63	4.7%	-4.6%
77	1.90460	1.81787	1.73353	-1.64	1.65	4.8%	-4.6%
78	1.85143	1.76662	1.68417	-1.65	1.66	4.8%	-4.7%
79	1.79998	1.71703	1.63643	-1.67	1.68	4.8%	-4.7%

R - T Table

Part No.:TTC3A103H34D1EY

R25=10KOhm $\pm 3\%$

B25/85 = 3435 K $\pm 1\%$

Temperature (°C)	Rmax. (K Ω)	Rnor. (K Ω)	Rmin. (K Ω)	Temperature Tol. (°C)		Resistance Tol. (%)	
80	1.75018	1.66906	1.59026	-1.69	1.70	4.9%	-4.7%
81	1.70198	1.62263	1.54559	-1.71	1.71	4.9%	-4.7%
82	1.65531	1.57770	1.50237	-1.73	1.73	4.9%	-4.8%
83	1.61013	1.53421	1.46054	-1.75	1.75	4.9%	-4.8%
84	1.56639	1.49211	1.42007	-1.76	1.77	5.0%	-4.8%
85	1.52402	1.45135	1.38090	-1.78	1.79	5.0%	-4.9%
86	1.48299	1.41188	1.34298	-1.80	1.80	5.0%	-4.9%
87	1.44324	1.37367	1.30627	-1.82	1.82	5.1%	-4.9%
88	1.40474	1.33666	1.27073	-1.84	1.84	5.1%	-4.9%
89	1.36744	1.30081	1.23631	-1.86	1.86	5.1%	-5.0%
90	1.33130	1.26609	1.20298	-1.88	1.88	5.2%	-5.0%
91	1.29628	1.23245	1.17071	-1.90	1.89	5.2%	-5.0%
92	1.26234	1.19986	1.13945	-1.92	1.91	5.2%	-5.0%
93	1.22945	1.16828	1.10916	-1.94	1.93	5.2%	-5.1%
94	1.19757	1.13769	1.07983	-1.96	1.95	5.3%	-5.1%
95	1.16666	1.10803	1.05141	-1.98	1.97	5.3%	-5.1%
96	1.13670	1.07929	1.02386	-2.00	1.99	5.3%	-5.1%
97	1.10765	1.05144	0.99718	-2.02	2.01	5.3%	-5.2%
98	1.07948	1.02443	0.97131	-2.04	2.03	5.4%	-5.2%
99	1.05217	0.99825	0.94625	-2.06	2.05	5.4%	-5.2%
100	1.02568	0.97287	0.92195	-2.08	2.07	5.4%	-5.2%
101	0.99998	0.94825	0.89839	-2.10	2.09	5.5%	-5.3%
102	0.97506	0.92438	0.87555	-2.12	2.11	5.5%	-5.3%
103	0.95088	0.90123	0.85341	-2.14	2.13	5.5%	-5.3%
104	0.92743	0.87878	0.83194	-2.17	2.15	5.5%	-5.3%
105	0.90467	0.85700	0.81112	-2.19	2.17	5.6%	-5.4%
106	0.88258	0.83587	0.79092	-2.21	2.19	5.6%	-5.4%
107	0.86115	0.81537	0.77133	-2.23	2.21	5.6%	-5.4%
108	0.84034	0.79548	0.75232	-2.26	2.24	5.6%	-5.4%
109	0.82015	0.77617	0.73388	-2.28	2.26	5.7%	-5.4%
110	0.80055	0.75743	0.71599	-2.30	2.28	5.7%	-5.5%
111	0.78152	0.73924	0.69863	-2.32	2.30	5.7%	-5.5%
112	0.76303	0.72159	0.68178	-2.35	2.32	5.7%	-5.5%
113	0.74509	0.70445	0.66542	-2.37	2.34	5.8%	-5.5%
114	0.72765	0.68780	0.64954	-2.39	2.37	5.8%	-5.6%
115	0.71072	0.67164	0.63413	-2.42	2.39	5.8%	-5.6%
116	0.69427	0.65593	0.61916	-2.44	2.41	5.8%	-5.6%
117	0.67829	0.64068	0.60462	-2.47	2.43	5.9%	-5.6%
118	0.66275	0.62586	0.59050	-2.49	2.46	5.9%	-5.7%
119	0.64766	0.61147	0.57678	-2.51	2.48	5.9%	-5.7%

R - T Table

Part No.:TTC3A103H34D1EY

R25=10KOhm $\pm 3\%$

$$B_{25/85} = 3435 \text{ K} \pm 1\%$$
[illegible]