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SPECIFICATION FOR APPROVAL

CUSTOMER

CERTIFIED
MODEL/TYPE

TTC03-152

PART NO.

TTC3A152K39HAEY(RoHS+HF)

APPLICATION

CUSTOMER P/N

ISSUE DATE

Oct.22.2021

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



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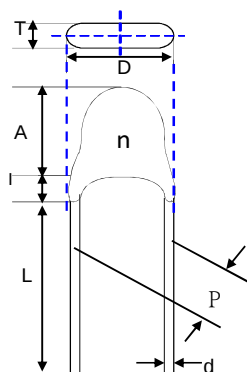
Part Number Code

Example :

TTC **3** **A** **152** **K** **39H** **A** **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	152	15 x 10 ² Ω = 1.5 KΩ
(5)	Tolerance of R _{25°C}	K	± 10%
(6)	B Value	39H	3975K
(7)	Tolerance of B Value	A	± 1.5%
(8)	Appearance	E	Straight lead epoxy coating (Green)
(9)	Optional Suffix	Y	RoHS+HF 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°C	Tolerance of $R_{25^{\circ}\text{C}}$	$B_{25/85}$ Value	Tolerance of B Value	Max. Power Dissipation at 25°C	Dissipation Factor	Thermal Time Constant	Operating Temperature Range
	$R_{25^{\circ}\text{C}}$ (K Ω)	($\pm$ %)	(K)	($\pm$ %)	P_{max} (mW)	δ (mW/°C)	τ (sec.)	$T_L \sim T_U$ (°C)
TTC3A152K39HAEY	1.5	10	3975	1.5	150	≥ 2.5	≤ 18	-40 ~ +125

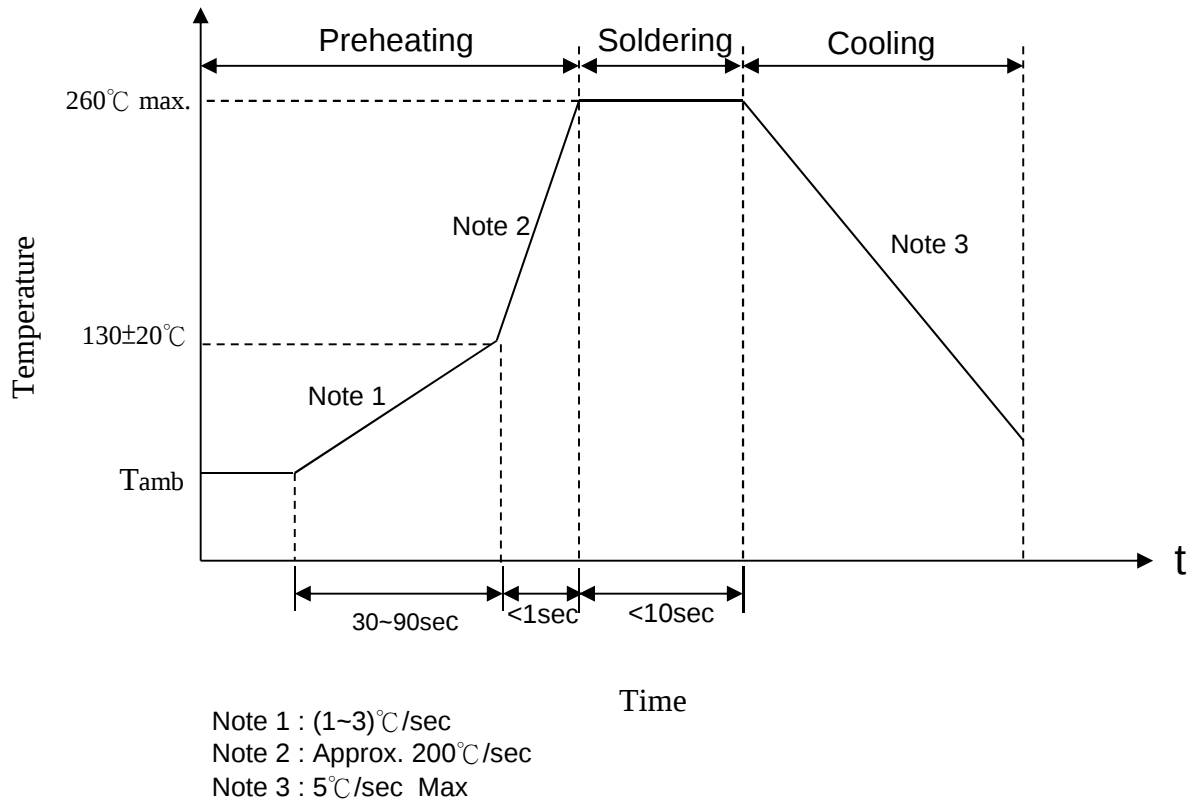


Reliability

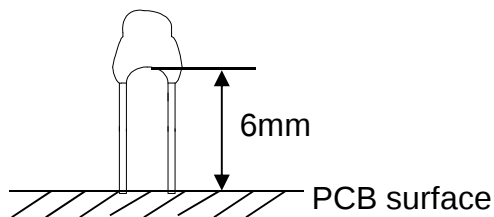
Item	Standard	Test conditions / Methods	Specifications															
Tensile Strength of Terminals	IEC60068-2-21	Gradually applying the force specified and keeping the unit fixed for 10±1 sec. <table><tr><td>Terminal diameter (mm)</td><td>Force (Kg)</td></tr><tr><td>$0.3 < d \leq 0.5$</td><td>0.5</td></tr><tr><td>$0.5 < d \leq 0.8$</td><td>1.0</td></tr></table>	Terminal diameter (mm)	Force (Kg)	$0.3 < d \leq 0.5$	0.5	$0.5 < d \leq 0.8$	1.0	No visible damage									
Terminal diameter (mm)	Force (Kg)																	
$0.3 < d \leq 0.5$	0.5																	
$0.5 < d \leq 0.8$	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>$0.3 < d \leq 0.5$</td><td>0.25</td></tr><tr><td>$0.5 < d \leq 0.8$</td><td>0.50</td></tr></table>	Terminal diameter (mm)	Force (Kg)	$0.3 < d \leq 0.5$	0.25	$0.5 < d \leq 0.8$	0.50	No visible damage									
Terminal diameter (mm)	Force (Kg)																	
$0.3 < d \leq 0.5$	0.25																	
$0.5 < d \leq 0.8$	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><th>Step</th><th>Temperature (°C)</th><th>Period (minutes)</th></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



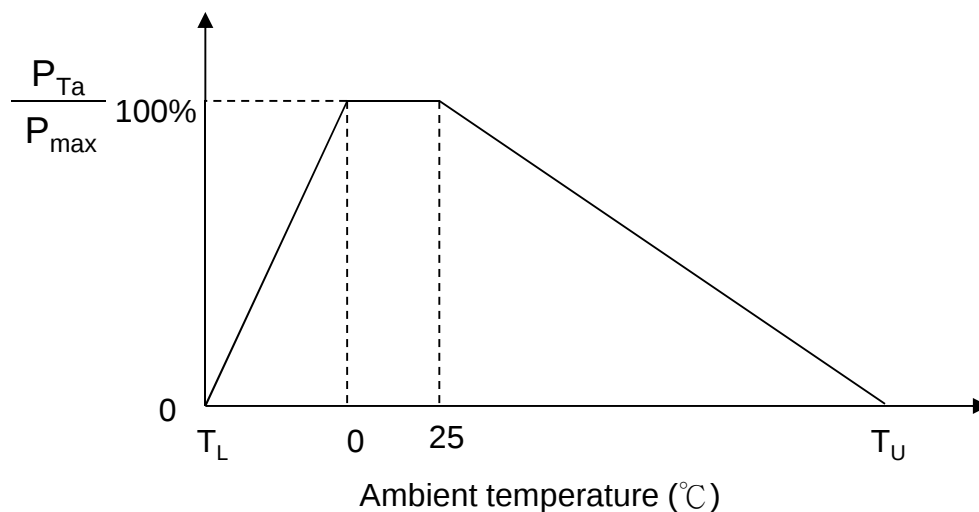
Caution: It has be better to keep the minimum distance as 6mm between the bottom of the thermistorbody and PCB surface to prevent component damage.



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 (°C)

T_U = Maximum operating temperature (°C)

For example :

Ambient temperature(T_a)=55°C

Maximum operating temperature(T_u)=125°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°C ~+40°C
- 2.Relative Humidity : $\leq 75\%RH$ (not dewing condition)
- 3.Keep away from corrosive atmosphere and sunlight

(II) Period of Storage : 1 year

Install and use

1. Use this product within the specified temperature range.
2. Higher temperature may cause deterioration of the characteristics or the material quality of this product.
3. Do not melt the solder in resin head, when you solder this product. If you melt the solder in resin head, it has possibility that the break of wire, short and insulation damage.
4. Do not touch the resin head directly by solder iron. It may cause the melt of solder in resin head.
5. At least away from resin head 10mm above when lead dividing.
6. In case you cut the lead wire of this product less than 10mm from resin head, the heat of melted solder at lead wire edge is propagated easily to the resin head along the lead wire.
7. Radius of lead bending should be more than 1mm when lead bending.
Holding element by side lead wire is recommended when lead wire is bent or cut.
8. Do not apply an excessive force to the lead. Otherwise, it may cause junction between lead and element to break or crack.
9. The ceramic element of this product is fragile, and care must be taken not to load an excessive press-force or not to give a shock at handling. Such forces may cause cracking or chipping.
10. If you mold by resin this product, please evaluate the quality of this product before you use it.

Storage place condition

To keep solderability of product from declining, the following storage condition is recommended.

1. Storage condition:

Temperature -10°C to +40°C

Humidity less than 75%RH (not dewing condition)

2. Storage term:

Use this product within 1 year after delivery by first-in and first-out stocking system.

3. Handling after unpacking:

After unpacking, reseal product promptly or store it in a sealed container with a drying agent.

4. Storage place:

Do not store this product in corrosive gas (Sulfuric acid gas, Chlorine gas, etc.) or in direct sunlight.

Warn and note item

This product is designed for application in an ordinary environment (normal room temperature, humidity and atmospheric pressure).

Do not use under the following conditions because all of these factors can deteriorate the product characteristics or cause failures and burn-out.

1. Corrosive gas or deoxidizing gas (Chlorine gas, Hydrogen sulfide gas, Ammonia gas, Sulfuric acid gas, Nitric oxide gas, etc.)
2. Volatile or flammable gas
3. Dusty conditions
4. Under vacuum, or under high or low pressure
5. Wet or humid locations; soak in the liquid or wash with liquid
6. Places with salt water, oils, chemical liquids or organic solvents and do not use directly with quick-drying glue.
7. Strong vibrations
8. Other places where similar hazardous conditions exist
9. Be sure to provide an appropriate fail-safe function on your product to prevent secondary damages that may be caused by the abnormal function or the failure of our product.

Safety Approvals (Certified Model/Type : TTC03-152)



* UL 1434 / cUL recognized (File # E138827)



* TÜV recognized (File # R 50050155)



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

* CQC GB6663-86 recognized (File# CQC04001011966)

Certificates

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

Test Report

- (1) RoHS test report
- (2) Halogen-free test report

R - T Table

Part No. : TTC3A152K39HAEY

R25=1.5KOhm $\pm 10\%$

B25/85 = 3975 K $\pm 1.5\%$

Temperature (°C)	Rmax. (KΩ)	Rnor. (KΩ)	Rmin. (KΩ)	Temperature Tol. (°C)		Resistance Tol. (%)	
-40	55.9592	48.2906	41.2561	-2.31	2.29	15.9%	-14.6%
-39	52.3544	45.2242	38.6745	-2.33	2.31	15.8%	-14.5%
-38	49.0205	42.3855	36.2822	-2.34	2.32	15.7%	-14.4%
-37	45.9276	39.7496	34.0586	-2.34	2.32	15.5%	-14.3%
-36	43.0523	37.2967	31.9874	-2.35	2.32	15.4%	-14.2%
-35	40.3751	35.0106	30.0553	-2.35	2.32	15.3%	-14.2%
-34	37.8800	32.8779	28.2511	-2.35	2.32	15.2%	-14.1%
-33	35.5528	30.8870	26.5652	-2.34	2.32	15.1%	-14.0%
-32	33.3813	29.0275	24.9892	-2.34	2.32	15.0%	-13.9%
-31	31.3543	27.2901	23.5152	-2.34	2.32	14.9%	-13.8%
-30	29.4616	25.6664	22.1365	-2.34	2.33	14.8%	-13.8%
-29	27.6939	24.1485	20.8464	-2.34	2.33	14.7%	-13.7%
-28	26.0425	22.7291	19.6389	-2.33	2.33	14.6%	-13.6%
-27	24.4993	21.4016	18.5086	-2.33	2.33	14.5%	-13.5%
-26	23.0568	20.1595	17.4501	-2.33	2.33	14.4%	-13.4%
-25	21.7080	18.9971	16.4585	-2.33	2.33	14.3%	-13.4%
-24	20.4463	17.9088	15.5294	-2.33	2.33	14.2%	-13.3%
-23	19.2657	16.8896	14.6584	-2.33	2.34	14.1%	-13.2%
-22	18.1605	15.9346	13.8417	-2.33	2.34	14.0%	-13.1%
-21	17.1255	15.0395	13.0755	-2.33	2.34	13.9%	-13.1%
-20	16.1558	14.2001	12.3564	-2.33	2.34	13.8%	-13.0%
-19	15.2469	13.4128	11.6812	-2.33	2.34	13.7%	-12.9%
-18	14.3947	12.6738	11.0471	-2.33	2.34	13.6%	-12.8%
-17	13.5951	11.9800	10.4511	-2.33	2.35	13.5%	-12.8%
-16	12.8448	11.3282	9.89086	-2.33	2.35	13.4%	-12.7%
-15	12.1402	10.7158	9.36395	-2.33	2.35	13.3%	-12.6%
-14	11.4785	10.1401	8.86819	-2.32	2.35	13.2%	-12.5%
-13	10.8566	9.59863	8.40156	-2.32	2.35	13.1%	-12.5%
-12	10.2720	9.08920	7.96217	-2.32	2.35	13.0%	-12.4%
-11	9.72220	8.60971	7.54827	-2.32	2.35	12.9%	-12.3%
-10	9.20496	8.15824	7.15825	-2.32	2.35	12.8%	-12.3%
-9	8.71816	7.73300	6.79058	-2.32	2.35	12.7%	-12.2%
-8	8.25984	7.33232	6.44387	-2.31	2.35	12.6%	-12.1%
-7	7.82818	6.95465	6.11681	-2.31	2.35	12.6%	-12.0%
-6	7.42150	6.59855	5.80819	-2.31	2.35	12.5%	-12.0%
-5	7.03822	6.26268	5.51687	-2.31	2.35	12.4%	-11.9%
-4	6.67687	5.94578	5.24179	-2.31	2.35	12.3%	-11.8%
-3	6.33609	5.64668	4.98196	-2.30	2.35	12.2%	-11.8%
-2	6.01461	5.36430	4.73647	-2.30	2.35	12.1%	-11.7%
-1	5.71123	5.09763	4.50445	-2.30	2.35	12.0%	-11.6%

R - T Table

Part No. : TTC3A152K39HAEY

R25=1.5KOhm $\pm 10\%$ B25/85 = 3975 K $\pm 1.5\%$

Temperature (°C)	Rmax. (KΩ)	Rnor. (KΩ)	Rmin. (KΩ)	Temperature Tol. (°C)		Resistance Tol. (%)	
0	5.42486	4.84570	4.28509	-2.30	2.35	12.0%	-11.6%
1	5.15444	4.60764	4.07765	-2.30	2.36	11.9%	-11.5%
2	4.89902	4.38260	3.88142	-2.29	2.36	11.8%	-11.4%
3	4.65769	4.16982	3.69573	-2.29	2.36	11.7%	-11.4%
4	4.42961	3.96857	3.51997	-2.29	2.36	11.6%	-11.3%
5	4.21397	3.77817	3.35356	-2.29	2.36	11.5%	-11.2%
6	4.01005	3.59797	3.19595	-2.29	2.36	11.5%	-11.2%
7	3.81714	3.42738	3.04664	-2.28	2.36	11.4%	-11.1%
8	3.63459	3.26584	2.90515	-2.28	2.36	11.3%	-11.0%
9	3.46180	3.11282	2.77102	-2.28	2.36	11.2%	-11.0%
10	3.29820	2.96783	2.64384	-2.28	2.36	11.1%	-10.9%
11	3.14324	2.83041	2.52322	-2.28	2.36	11.1%	-10.9%
12	2.99644	2.70012	2.40877	-2.27	2.36	11.0%	-10.8%
13	2.85731	2.57656	2.30016	-2.27	2.36	10.9%	-10.7%
14	2.72541	2.45934	2.19705	-2.27	2.36	10.8%	-10.7%
15	2.60034	2.34811	2.09914	-2.27	2.36	10.7%	-10.6%
16	2.48170	2.24253	2.00613	-2.27	2.36	10.7%	-10.5%
17	2.36913	2.14227	1.91777	-2.26	2.36	10.6%	-10.5%
18	2.26229	2.04705	1.83378	-2.26	2.36	10.5%	-10.4%
19	2.16085	1.95659	1.75393	-2.26	2.36	10.4%	-10.4%
20	2.06451	1.87062	1.67799	-2.26	2.36	10.4%	-10.3%
21	1.97299	1.78889	1.60576	-2.25	2.36	10.3%	-10.2%
22	1.88602	1.71118	1.53702	-2.25	2.36	10.2%	-10.2%
23	1.80336	1.63726	1.47160	-2.25	2.36	10.1%	-10.1%
24	1.72476	1.56693	1.40932	-2.24	2.35	10.1%	-10.1%
25	1.65000	1.50000	1.35000	-2.24	2.35	10.0%	-10.0%
26	1.58094	1.43628	1.29181	-2.27	2.38	10.1%	-10.1%
27	1.51513	1.37561	1.23644	-2.30	2.41	10.1%	-10.1%
28	1.45241	1.31781	1.18373	-2.33	2.44	10.2%	-10.2%
29	1.39262	1.26275	1.13354	-2.36	2.46	10.3%	-10.2%
30	1.33559	1.21027	1.08574	-2.39	2.49	10.4%	-10.3%
31	1.28120	1.16025	1.04021	-2.42	2.52	10.4%	-10.3%
32	1.22930	1.11255	0.99682	-2.45	2.54	10.5%	-10.4%
33	1.17977	1.06706	0.95546	-2.48	2.57	10.6%	-10.5%
34	1.13250	1.02366	0.91603	-2.51	2.60	10.6%	-10.5%
35	1.08735	0.98224	0.87842	-2.54	2.63	10.7%	-10.6%
36	1.04424	0.94271	0.84255	-2.57	2.65	10.8%	-10.6%
37	1.00305	0.90498	0.80833	-2.60	2.68	10.8%	-10.7%
38	0.96369	0.86894	0.77567	-2.63	2.71	10.9%	-10.7%
39	0.92608	0.83452	0.74449	-2.66	2.74	11.0%	-10.8%

R - T Table

Part No. : TTC3A152K39HAEY

R25=1.5KOhm $\pm 10\%$ B25/85 = 3975 K $\pm 1.5\%$

Temperature (°C)	Rmax. (KΩ)	Rnor. (KΩ)	Rmin. (KΩ)	Temperature Tol. (°C)		Resistance Tol. (%)	
40	0.89012	0.80163	0.71472	-2.69	2.77	11.0%	-10.8%
41	0.85574	0.77021	0.68629	-2.72	2.79	11.1%	-10.9%
42	0.82286	0.74017	0.65913	-2.75	2.82	11.2%	-10.9%
43	0.79140	0.71145	0.63318	-2.78	2.85	11.2%	-11.0%
44	0.76131	0.68399	0.60838	-2.82	2.88	11.3%	-11.1%
45	0.73250	0.65773	0.58468	-2.85	2.91	11.4%	-11.1%
46	0.70493	0.63260	0.56202	-2.88	2.94	11.4%	-11.2%
47	0.67854	0.60856	0.54034	-2.91	2.96	11.5%	-11.2%
48	0.65326	0.58555	0.51961	-2.94	2.99	11.6%	-11.3%
49	0.62905	0.56353	0.49978	-2.97	3.02	11.6%	-11.3%
50	0.60586	0.54244	0.48080	-3.01	3.05	11.7%	-11.4%
51	0.58363	0.52224	0.46264	-3.04	3.08	11.8%	-11.4%
52	0.56233	0.50290	0.44525	-3.07	3.11	11.8%	-11.5%
53	0.54192	0.48437	0.42860	-3.11	3.14	11.9%	-11.5%
54	0.52234	0.46661	0.41266	-3.14	3.17	11.9%	-11.6%
55	0.50357	0.44959	0.39739	-3.17	3.20	12.0%	-11.6%
56	0.48557	0.43328	0.38276	-3.21	3.23	12.1%	-11.7%
57	0.46830	0.41764	0.36874	-3.24	3.26	12.1%	-11.7%
58	0.45173	0.40264	0.35530	-3.27	3.29	12.2%	-11.8%
59	0.43583	0.38826	0.34242	-3.31	3.32	12.3%	-11.8%
60	0.42057	0.37446	0.33007	-3.34	3.35	12.3%	-11.9%
61	0.40591	0.36121	0.31822	-3.38	3.38	12.4%	-11.9%
62	0.39184	0.34851	0.30686	-3.41	3.41	12.4%	-11.9%
63	0.37833	0.33631	0.29597	-3.45	3.45	12.5%	-12.0%
64	0.36535	0.32460	0.28551	-3.48	3.48	12.6%	-12.0%
65	0.35288	0.31336	0.27547	-3.52	3.51	12.6%	-12.1%
66	0.34090	0.30256	0.26584	-3.55	3.54	12.7%	-12.1%
67	0.32939	0.29219	0.25659	-3.59	3.57	12.7%	-12.2%
68	0.31832	0.28222	0.24771	-3.62	3.60	12.8%	-12.2%
69	0.30768	0.27264	0.23918	-3.66	3.64	12.8%	-12.3%
70	0.29745	0.26344	0.23099	-3.69	3.67	12.9%	-12.3%
71	0.28760	0.25459	0.22312	-3.73	3.70	13.0%	-12.4%
72	0.27814	0.24609	0.21556	-3.77	3.73	13.0%	-12.4%
73	0.26903	0.23791	0.20829	-3.80	3.77	13.1%	-12.5%
74	0.26026	0.23004	0.20130	-3.84	3.80	13.1%	-12.5%
75	0.25183	0.22247	0.19458	-3.88	3.83	13.2%	-12.5%
76	0.24371	0.21519	0.18811	-3.92	3.86	13.3%	-12.6%
77	0.23589	0.20819	0.18190	-3.95	3.90	13.3%	-12.6%
78	0.22836	0.20144	0.17592	-3.99	3.93	13.4%	-12.7%
79	0.22111	0.19495	0.17017	-4.03	3.96	13.4%	-12.7%

R - T Table

Part No. : TTC3A152K39HAEY

R25=1.5KOhm $\pm 10\%$ B25/85 = 3975 K $\pm 1.5\%$

Temperature (°C)	Rmax. (KΩ)	Rnor. (KΩ)	Rmin. (KΩ)	Temperature Tol. (°C)		Resistance Tol. (%)	
80	0.21413	0.18870	0.16463	-4.07	4.00	13.5%	-12.8%
81	0.20740	0.18268	0.15930	-4.11	4.03	13.5%	-12.8%
82	0.20091	0.17688	0.15417	-4.14	4.07	13.6%	-12.8%
83	0.19466	0.17130	0.14923	-4.18	4.10	13.6%	-12.9%
84	0.18863	0.16591	0.14447	-4.22	4.13	13.7%	-12.9%
85	0.18282	0.16073	0.13989	-4.26	4.17	13.7%	-13.0%
86	0.17722	0.15573	0.13547	-4.30	4.20	13.8%	-13.0%
87	0.17182	0.15091	0.13122	-4.34	4.24	13.9%	-13.0%
88	0.16660	0.14626	0.12712	-4.38	4.27	13.9%	-13.1%
89	0.16157	0.14178	0.12316	-4.42	4.31	14.0%	-13.1%
90	0.15672	0.13745	0.11935	-4.46	4.34	14.0%	-13.2%
91	0.15203	0.13328	0.11568	-4.50	4.37	14.1%	-13.2%
92	0.14751	0.12926	0.11213	-4.54	4.41	14.1%	-13.2%
93	0.14314	0.12538	0.10871	-4.57	4.44	14.2%	-13.3%
94	0.13893	0.12163	0.10542	-4.61	4.48	14.2%	-13.3%
95	0.13485	0.11801	0.10223	-4.65	4.51	14.3%	-13.4%
96	0.13092	0.11451	0.09916	-4.69	4.55	14.3%	-13.4%
97	0.12712	0.11114	0.09619	-4.73	4.58	14.4%	-13.4%
98	0.12344	0.10788	0.09333	-4.77	4.62	14.4%	-13.5%
99	0.11989	0.10473	0.09057	-4.82	4.65	14.5%	-13.5%
100	0.11646	0.10168	0.08789	-4.86	4.69	14.5%	-13.6%
101	0.11314	0.09874	0.08532	-4.90	4.72	14.6%	-13.6%
102	0.10993	0.09590	0.08282	-4.94	4.76	14.6%	-13.6%
103	0.10683	0.09315	0.08041	-4.98	4.79	14.7%	-13.7%
104	0.10383	0.09050	0.07809	-5.02	4.83	14.7%	-13.7%
105	0.10092	0.08793	0.07584	-5.06	4.86	14.8%	-13.7%
106	0.09811	0.08544	0.07366	-5.10	4.90	14.8%	-13.8%
107	0.09539	0.08304	0.07156	-5.14	4.94	14.9%	-13.8%
108	0.09276	0.08071	0.06953	-5.18	4.97	14.9%	-13.9%
109	0.09021	0.07846	0.06756	-5.22	5.01	15.0%	-13.9%
110	0.08775	0.07628	0.06565	-5.26	5.04	15.0%	-13.9%
111	0.08536	0.07418	0.06381	-5.30	5.08	15.1%	-14.0%
112	0.08304	0.07213	0.06203	-5.35	5.11	15.1%	-14.0%
113	0.08080	0.07016	0.06031	-5.39	5.15	15.2%	-14.0%
114	0.07863	0.06824	0.05864	-5.43	5.18	15.2%	-14.1%
115	0.07653	0.06639	0.05702	-5.47	5.22	15.3%	-14.1%
116	0.07449	0.06460	0.05546	-5.51	5.26	15.3%	-14.1%
117	0.07251	0.06286	0.05394	-5.55	5.29	15.4%	-14.2%
118	0.07060	0.06117	0.05248	-5.59	5.33	15.4%	-14.2%
119	0.06874	0.05954	0.05105	-5.64	5.36	15.5%	-14.3%

R - T Table

Part No. : TTC3A152K39HAEY

R25=1.5KOhm $\pm 10\%$

$$B_{25/85} = 3975 \text{ K} \pm 1.5\%$$
[illegible]