



Approval Sheet

Manufacturer:

E WAY Technology Co., LTD

Customer:

汎翊國際有限公司

Approved By:	Checked By:	Prepared By :

Approved By:	Examined By:	Tested By :

Company Stamp	
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Company Stamp	
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Approval No. : A616-101

Product : NTC THERMISTOR

Part No : ESDT503F3950FA -S

Specifications : R25 50,000 Ω $\pm$ 1 %

B25/50 3950 K $\pm$ 1 %

Date : 2022/07/14

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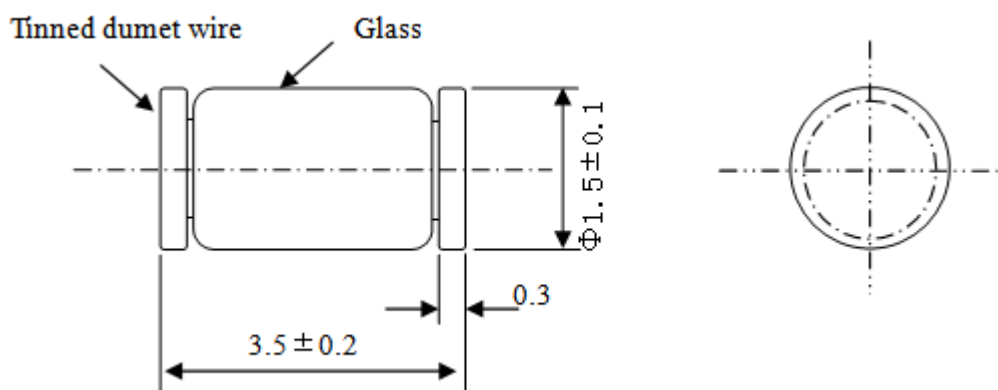
◆ PART NO. : ESDT503F3950FA-S

◆ Features

- Low cost
- High stability
- Glass sealed body for high reliability

◆ SHAPE & DIMENSIONS

Unit : mm



No.	Part Name	Materials	Remark
1	NTC Thermistor	Metal Oxide	---
2	Lead Wire	Tinned dumet wire	---
3	Coating	Glass	---

◆ ELECTRICAL CHARACTERISTICS

Style	Symbol	Condition	Specification
Resistance at Ta	R	Ta = 25 °C	50 K Ω $\pm$ 1 %
B Constant	B	25 °C / 50 °C	3950 K $\pm$ 1 %
Thermal Time Constant	C	in still air	8~12 sec
Thermal Dissipation Constant	T	in still air	1.4 mW/°C
Operating Temp. Range	--	--	- 40 °C ~ 250 °C

◆ **RELIABILITY TEST**

Performance	Test Method	$\Delta R_{25} / R_{25}$
Humidity	40°C $\pm$ 2 , 95 % RH x 1000 hours	Max. $\pm$ 3 %
Thermal shock	(- 40°Cx30min $\rightarrow$ 200°Cx30min) x 10 times	Max. $\pm$ 3 %
High temperature storage	250 $\pm$ 5 °C x 1000 hours	Max. $\pm$ 3 %
Low temperature storage	- 40 $\pm$ 5 °C x 1000 hours	Max. $\pm$ 3 %
Insulation	Insulation resistance over by DC 500 V	Over 100 M Ω

◆ **STORAGE CONDITIONS**

1. Storage Temperature : - 10 °C ~ + 40 °C.
2. Relative humidity : 30 ~ 75 % RH.
3. Thermistor must be kept away from sunshine and stored in a non-corrosive atmosphere.
4. Period of Storage : 1 year.

◆ **ORDERING INFORMATION**

ES DT 503 F 3950 FA - S
 ① ② ③ ④ ⑤ ⑥ ⑦

1. E WAY Sensor.
2. Diode Type Thermistor.
3. Resistance at 25 °C : 503 = 50 x 10³ = 50,000 (Ω).
4. Tolerance of R : F: $\pm$ 1% ; G: $\pm$ 2% ; H: $\pm$ 3% ; J: $\pm$ 5% ; K: $\pm$ 10%.
5. B value (K).
6. Tolerance of B : F: $\pm$ 1% ; G: $\pm$ 2% ; H: $\pm$ 3% ; J: $\pm$ 5%. A = B_{25/50}.
7. S = SMD

Resistance-Temperature CharacteristicsPart No. : **ESDT503F3950FA-S**

R25 :	50,000	Ω	±	1%
B25/50 :	3950	K	±	1%

Temperature (°C)	Resistance (Ω)			Temp. Coef. (%/°C)	Resist. Tol. (%)		Temp. Tol. (°C)	
	MIN.	CENTER	MAX.		MIN.	MAX.	MIN.	MAX.
-40	1719007	1799719	1884033	-6.65	-4.48	4.68	-0.70	0.67
-39	1604457	1678622	1756038	-6.61	-4.42	4.61	-0.70	0.67
-38	1498438	1566620	1637740	-6.56	-4.35	4.54	-0.69	0.66
-37	1400250	1462962	1528329	-6.52	-4.29	4.47	-0.69	0.66
-36	1309254	1366962	1427072	-6.48	-4.22	4.40	-0.68	0.65
-35	1224870	1277998	1333298	-6.43	-4.16	4.33	-0.67	0.65
-34	1146568	1195502	1246400	-6.39	-4.09	4.26	-0.67	0.64
-33	1073864	1118955	1165823	-6.35	-4.03	4.19	-0.66	0.63
-32	1006318	1047885	1091059	-6.31	-3.97	4.12	-0.65	0.63
-31	943525	981859	1021648	-6.27	-3.90	4.05	-0.65	0.62
-30	885117	920484	957167	-6.23	-3.84	3.99	-0.64	0.62
-29	830756	863397	897231	-6.19	-3.78	3.92	-0.63	0.61
-28	780132	810269	841487	-6.14	-3.72	3.85	-0.63	0.61
-27	732961	760797	789611	-6.10	-3.66	3.79	-0.62	0.60
-26	688985	714703	741308	-6.07	-3.60	3.72	-0.61	0.59
-25	647963	671734	696307	-6.03	-3.54	3.66	-0.61	0.59
-24	609677	631655	654359	-5.99	-3.48	3.59	-0.60	0.58
-23	573925	594251	615236	-5.95	-3.42	3.53	-0.59	0.58
-22	540523	559327	578727	-5.91	-3.36	3.47	-0.59	0.57
-21	509298	526700	544641	-5.87	-3.30	3.41	-0.58	0.56
-20	480096	496203	512800	-5.83	-3.25	3.34	-0.57	0.56
-19	452770	467684	483041	-5.80	-3.19	3.28	-0.57	0.55
-18	427189	441001	455214	-5.76	-3.13	3.22	-0.56	0.54
-17	403228	416022	429180	-5.72	-3.08	3.16	-0.55	0.54
-16	380774	392629	404812	-5.68	-3.02	3.10	-0.55	0.53
-15	359723	370709	381993	-5.65	-2.96	3.04	-0.54	0.52
-14	339977	350161	360613	-5.61	-2.91	2.99	-0.53	0.52
-13	321448	330889	340573	-5.58	-2.85	2.93	-0.52	0.51
-12	304052	312806	321780	-5.54	-2.80	2.87	-0.52	0.51
-11	287712	295831	304149	-5.51	-2.74	2.81	-0.51	0.50
-10	272358	279889	287599	-5.47	-2.69	2.75	-0.50	0.49
-9	257925	264910	272058	-5.44	-2.64	2.70	-0.50	0.49
-8	244350	250831	257458	-5.40	-2.58	2.64	-0.49	0.48
-7	231577	237591	243736	-5.37	-2.53	2.59	-0.48	0.47
-6	219555	225135	230833	-5.33	-2.48	2.53	-0.47	0.46
-5	208234	213412	218697	-5.30	-2.43	2.48	-0.47	0.46
-4	197568	202374	207275	-5.27	-2.37	2.42	-0.46	0.45
-3	187517	191976	196522	-5.23	-2.32	2.37	-0.45	0.44
-2	178040	182179	186395	-5.20	-2.27	2.31	-0.45	0.44
-1	169102	172943	176853	-5.17	-2.22	2.26	-0.44	0.43
0	160668	164233	167860	-5.14	-2.17	2.21	-0.43	0.42

Resistance-Temperature CharacteristicsPart No. : **ESDT503F3950FA-S**

R25 : 50,000	Ω	±	1%
B25/50 : 3950	K	±	1%

Temperature (°C)	Resistance (Ω)			Temp. Coef. (%/°C)	Resist. Tol. (%)		Temp. Tol. (°C)	
	MIN.	CENTER	MAX.		MIN.	MAX.	MIN.	MAX.
1	152708	156015	159379	-5.10	-2.12	2.16	-0.42	0.42
2	145190	148260	151379	-5.07	-2.07	2.10	-0.41	0.41
3	138090	140937	143830	-5.04	-2.02	2.05	-0.41	0.40
4	131380	134022	136703	-5.01	-1.97	2.00	-0.40	0.39
5	125036	127487	129973	-4.98	-1.92	1.95	-0.39	0.39
6	119038	121311	123615	-4.95	-1.87	1.90	-0.38	0.38
7	113363	115471	117606	-4.92	-1.83	1.85	-0.38	0.37
8	107993	109947	111925	-4.89	-1.78	1.80	-0.37	0.36
9	102910	104720	106552	-4.86	-1.73	1.75	-0.36	0.36
10	98096	99773	101470	-4.83	-1.68	1.70	-0.35	0.35
11	93535	95089	96659	-4.80	-1.63	1.65	-0.34	0.34
12	89214	90652	92105	-4.77	-1.59	1.60	-0.34	0.33
13	85117	86449	87793	-4.74	-1.54	1.55	-0.33	0.33
14	81232	82464	83707	-4.71	-1.49	1.51	-0.32	0.32
15	77548	78687	79835	-4.68	-1.45	1.46	-0.31	0.31
16	74051	75104	76164	-4.65	-1.40	1.41	-0.30	0.30
17	70733	71705	72684	-4.62	-1.36	1.36	-0.30	0.29
18	67582	68479	69382	-4.60	-1.31	1.32	-0.29	0.29
19	64589	65417	66249	-4.57	-1.27	1.27	-0.28	0.28
20	61746	62509	63275	-4.54	-1.22	1.23	-0.27	0.27
21	59044	59747	60452	-4.51	-1.18	1.18	-0.26	0.26
22	56476	57122	57770	-4.49	-1.13	1.13	-0.25	0.25
23	54033	54628	55223	-4.46	-1.09	1.09	-0.24	0.24
24	51710	52256	52802	-4.43	-1.04	1.04	-0.24	0.24
25	49500	50000	50500	-4.41	-1.00	1.00	-0.23	0.23
26	47355	47854	48354	-4.38	-1.04	1.04	-0.24	0.24
27	45314	45812	46311	-4.36	-1.09	1.09	-0.25	0.25
28	43373	43868	44365	-4.33	-1.13	1.13	-0.26	0.26
29	41525	42018	42512	-4.30	-1.17	1.18	-0.27	0.27
30	39767	40255	40746	-4.28	-1.21	1.22	-0.28	0.28
31	38092	38576	39063	-4.25	-1.26	1.26	-0.30	0.30
32	36496	36976	37459	-4.23	-1.30	1.31	-0.31	0.31
33	34976	35451	35929	-4.20	-1.34	1.35	-0.32	0.32
34	33528	33997	34470	-4.18	-1.38	1.39	-0.33	0.33
35	32147	32611	33078	-4.15	-1.42	1.43	-0.34	0.34
36	30830	31288	31750	-4.13	-1.46	1.47	-0.36	0.35
37	29575	30026	30481	-4.11	-1.50	1.52	-0.37	0.37
38	28377	28822	29271	-4.08	-1.54	1.56	-0.38	0.38
39	27233	27672	28114	-4.06	-1.58	1.60	-0.39	0.39
40	26142	26574	27010	-4.04	-1.62	1.64	-0.41	0.40
41	25100	25525	25954	-4.01	-1.66	1.68	-0.42	0.41

Resistance-Temperature CharacteristicsPart No. : **ESDT503F3950FA-S**

R25 : 50,000	Ω	±	1%
B25/50 : 3950	K	±	1%

Temperature (°C)	Resistance (Ω)			Temp. Coef. (%/°C)	Resist. Tol. (%)		Temp. Tol. (°C)	
	MIN.	CENTER	MAX.		MIN.	MAX.	MIN.	MAX.
42	24105	24523	24945	-3.99	-1.70	1.72	-0.43	0.43
43	23155	23566	23981	-3.97	-1.74	1.76	-0.44	0.44
44	22247	22650	23059	-3.94	-1.78	1.80	-0.46	0.45
45	21379	21776	22177	-3.92	-1.82	1.84	-0.47	0.46
46	20550	20939	21333	-3.90	-1.86	1.88	-0.48	0.48
47	19757	20139	20526	-3.88	-1.90	1.92	-0.50	0.49
48	18998	19373	19753	-3.86	-1.93	1.96	-0.51	0.50
49	18273	18640	19014	-3.83	-1.97	2.00	-0.52	0.51
50	17579	17939	18305	-3.81	-2.01	2.04	-0.54	0.53
51	16914	17268	17627	-3.79	-2.05	2.08	-0.55	0.54
52	16278	16625	16977	-3.77	-2.08	2.12	-0.56	0.55
53	15670	16009	16354	-3.75	-2.12	2.16	-0.58	0.57
54	15087	15419	15758	-3.73	-2.16	2.20	-0.59	0.58
55	14528	14854	15186	-3.71	-2.19	2.23	-0.60	0.59
56	13993	14312	14637	-3.69	-2.23	2.27	-0.62	0.61
57	13480	13793	14111	-3.67	-2.27	2.31	-0.63	0.62
58	12989	13295	13607	-3.64	-2.30	2.35	-0.64	0.63
59	12518	12817	13123	-3.62	-2.34	2.38	-0.66	0.65
60	12066	12359	12659	-3.60	-2.37	2.42	-0.67	0.66
61	11633	11920	12213	-3.58	-2.41	2.46	-0.69	0.67
62	11217	11498	11785	-3.57	-2.44	2.50	-0.70	0.69
63	10818	11093	11374	-3.55	-2.48	2.53	-0.71	0.70
64	10436	10705	10980	-3.53	-2.51	2.57	-0.73	0.71
65	10068	10332	10601	-3.51	-2.55	2.61	-0.74	0.73
66	9716	9973	10237	-3.49	-2.58	2.64	-0.76	0.74
67	9377	9629	9887	-3.47	-2.62	2.68	-0.77	0.75
68	9052	9298	9551	-3.45	-2.65	2.71	-0.79	0.77
69	8739	8981	9227	-3.43	-2.69	2.75	-0.80	0.78
70	8439	8675	8917	-3.41	-2.72	2.78	-0.82	0.80
71	8151	8381	8618	-3.39	-2.75	2.82	-0.83	0.81
72	7873	8099	8330	-3.38	-2.79	2.86	-0.85	0.83
73	7607	7828	8054	-3.36	-2.82	2.89	-0.86	0.84
74	7351	7566	7788	-3.34	-2.85	2.93	-0.88	0.85
75	7104	7315	7532	-3.32	-2.88	2.96	-0.89	0.87
76	6867	7074	7285	-3.30	-2.92	2.99	-0.91	0.88
77	6639	6841	7048	-3.29	-2.95	3.03	-0.92	0.90
78	6420	6617	6820	-3.27	-2.98	3.06	-0.94	0.91
79	6208	6401	6600	-3.25	-3.01	3.10	-0.95	0.93
80	6005	6194	6388	-3.24	-3.05	3.13	-0.97	0.94
81	5810	5994	6184	-3.22	-3.08	3.17	-0.98	0.96
82	5621	5801	5987	-3.20	-3.11	3.20	-1.00	0.97

Resistance-Temperature CharacteristicsPart No. : **ESDT503F3950FA-S**

R25 : 50,000	Ω	±	1%
B25/50 : 3950	K	±	1%

Temperature (°C)	Resistance (Ω)			Temp. Coef. (%/°C)	Resist. Tol. (%)		Temp. Tol. (°C)	
	MIN.	CENTER	MAX.		MIN.	MAX.	MIN.	MAX.
83	5440	5616	5798	-3.18	-3.14	3.23	-1.02	0.99
84	5265	5437	5615	-3.17	-3.17	3.27	-1.03	1.00
85	5096	5265	5439	-3.15	-3.20	3.30	-1.05	1.02
86	4934	5099	5269	-3.13	-3.23	3.33	-1.06	1.03
87	4778	4939	5105	-3.12	-3.27	3.37	-1.08	1.05
88	4627	4785	4947	-3.10	-3.30	3.40	-1.10	1.06
89	4482	4636	4795	-3.09	-3.33	3.43	-1.11	1.08
90	4342	4492	4648	-3.07	-3.36	3.46	-1.13	1.09
91	4207	4354	4506	-3.05	-3.39	3.50	-1.14	1.11
92	4076	4220	4369	-3.04	-3.42	3.53	-1.16	1.12
93	3951	4092	4237	-3.02	-3.45	3.56	-1.18	1.14
94	3829	3967	4110	-3.01	-3.48	3.59	-1.19	1.16
95	3712	3847	3987	-2.99	-3.51	3.62	-1.21	1.17
96	3599	3731	3868	-2.98	-3.54	3.66	-1.23	1.19
97	3490	3619	3753	-2.96	-3.57	3.69	-1.24	1.20
98	3385	3511	3642	-2.95	-3.59	3.72	-1.26	1.22
99	3283	3407	3535	-2.93	-3.62	3.75	-1.28	1.24
100	3185	3306	3431	-2.92	-3.65	3.78	-1.30	1.25
101	3091	3209	3331	-2.90	-3.68	3.81	-1.31	1.27
102	2999	3115	3234	-2.89	-3.71	3.84	-1.33	1.28
103	2911	3024	3141	-2.87	-3.74	3.87	-1.35	1.30
104	2825	2936	3050	-2.86	-3.77	3.90	-1.37	1.32
105	2742	2851	2963	-2.84	-3.80	3.93	-1.38	1.33
106	2663	2769	2878	-2.83	-3.82	3.97	-1.40	1.35
107	2585	2689	2797	-2.82	-3.85	4.00	-1.42	1.37
108	2511	2612	2717	-2.80	-3.88	4.03	-1.44	1.38
109	2439	2538	2641	-2.79	-3.91	4.06	-1.45	1.40
110	2369	2466	2567	-2.77	-3.93	4.09	-1.47	1.42
111	2301	2396	2495	-2.76	-3.96	4.12	-1.49	1.44
112	2236	2329	2426	-2.75	-3.99	4.15	-1.51	1.45
113	2173	2264	2359	-2.73	-4.02	4.17	-1.53	1.47
114	2112	2201	2293	-2.72	-4.04	4.20	-1.55	1.49
115	2053	2140	2231	-2.71	-4.07	4.23	-1.56	1.50
116	1996	2081	2170	-2.69	-4.10	4.26	-1.58	1.52
117	1940	2024	2110	-2.68	-4.12	4.29	-1.60	1.54
118	1887	1968	2053	-2.67	-4.15	4.32	-1.62	1.56
119	1835	1915	1998	-2.65	-4.18	4.35	-1.64	1.57
120	1784	1863	1944	-2.64	-4.20	4.38	-1.66	1.59
121	1736	1812	1892	-2.63	-4.23	4.41	-1.68	1.61
122	1688	1763	1842	-2.62	-4.26	4.44	-1.70	1.63
123	1643	1716	1793	-2.60	-4.28	4.46	-1.71	1.64

Resistance-Temperature CharacteristicsPart No. : **ESDT503F3950FA-S**

R25 : 50,000	Ω	±	1%
B25/50 : 3950	K	±	1%

Temperature (°C)	Resistance (Ω)			Temp. Coef. (%/°C)	Resist. Tol. (%)		Temp. Tol. (°C)	
	MIN.	CENTER	MAX.		MIN.	MAX.	MIN.	MAX.
124	1598	1670	1745	-2.59	-4.31	4.49	-1.73	1.66
125	1555	1626	1699	-2.58	-4.33	4.52	-1.75	1.68
126	1514	1583	1655	-2.57	-4.36	4.55	-1.77	1.70
127	1474	1541	1612	-2.55	-4.39	4.58	-1.79	1.72
128	1434	1501	1570	-2.54	-4.41	4.60	-1.81	1.74
129	1397	1461	1529	-2.53	-4.44	4.63	-1.83	1.75
130	1360	1423	1490	-2.52	-4.46	4.66	-1.85	1.77
131	1324	1386	1451	-2.51	-4.49	4.69	-1.87	1.79
132	1290	1351	1414	-2.49	-4.51	4.71	-1.89	1.81
133	1256	1316	1378	-2.48	-4.54	4.74	-1.91	1.83
134	1224	1282	1343	-2.47	-4.56	4.77	-1.93	1.85
135	1192	1249	1309	-2.46	-4.59	4.80	-1.95	1.87
136	1161	1218	1276	-2.45	-4.61	4.82	-1.97	1.88
137	1132	1187	1244	-2.44	-4.63	4.85	-1.99	1.90
138	1103	1157	1213	-2.42	-4.66	4.88	-2.01	1.92
139	1075	1128	1183	-2.41	-4.68	4.90	-2.03	1.94
140	1048	1100	1154	-2.40	-4.71	4.93	-2.05	1.96
141	1021	1072	1125	-2.39	-4.73	4.96	-2.07	1.98
142	996	1046	1098	-2.38	-4.76	4.98	-2.09	2.00
143	971	1020	1071	-2.37	-4.78	5.01	-2.11	2.02
144	947	995	1045	-2.36	-4.80	5.04	-2.14	2.04
145	923	970	1019	-2.35	-4.83	5.06	-2.16	2.06
146	901	947	995	-2.34	-4.85	5.09	-2.18	2.08
147	878	924	971	-2.33	-4.87	5.11	-2.20	2.10
148	857	901	947	-2.31	-4.90	5.14	-2.22	2.12
149	836	879	925	-2.30	-4.92	5.16	-2.24	2.14
150	816	858	903	-2.29	-4.94	5.19	-2.26	2.16
151	796	838	881	-2.28	-4.97	5.22	-2.28	2.18
152	777	818	861	-2.27	-4.99	5.24	-2.31	2.20
153	758	798	840	-2.26	-5.01	5.27	-2.33	2.22
154	740	779	821	-2.25	-5.04	5.29	-2.35	2.24
155	722	761	801	-2.24	-5.06	5.32	-2.37	2.26
156	705	743	783	-2.23	-5.08	5.34	-2.39	2.28
157	689	726	765	-2.22	-5.10	5.37	-2.41	2.30
158	672	709	747	-2.21	-5.13	5.39	-2.44	2.32
159	657	692	730	-2.20	-5.15	5.42	-2.46	2.34
160	641	676	713	-2.19	-5.17	5.44	-2.48	2.36
161	626	661	697	-2.18	-5.19	5.47	-2.50	2.38
162	612	646	681	-2.17	-5.21	5.49	-2.53	2.40
163	598	631	666	-2.16	-5.24	5.51	-2.55	2.42
164	584	616	651	-2.15	-5.26	5.54	-2.57	2.44



Resistance-Temperature Characteristics

Part No. : **ESDT503F3950FA-S**

R25 : 50,000	Ω	±	1%
B25/50 : 3950	K	±	1%

Temperature (°C)	Resistance (Ω)			Temp. Coef. (%/°C)	Resist. Tol. (%)		Temp. Tol. (°C)	
	MIN.	CENTER	MAX.		MIN.	MAX.	MIN.	MAX.
165	571	602	636	-2.14	-5.28	5.56	-2.59	2.46
166	558	589	622	-2.13	-5.30	5.59	-2.62	2.48
167	545	575	608	-2.13	-5.32	5.61	-2.64	2.50
168	532	563	594	-2.12	-5.34	5.64	-2.66	2.53
169	520	550	581	-2.11	-5.37	5.66	-2.69	2.55
170	509	538	568	-2.10	-5.39	5.68	-2.71	2.57
171	497	526	556	-2.09	-5.41	5.71	-2.73	2.59
172	486	514	544	-2.08	-5.43	5.73	-2.76	2.61
173	475	503	532	-2.07	-5.45	5.75	-2.78	2.63
174	465	492	520	-2.06	-5.47	5.78	-2.80	2.65
175	455	481	509	-2.05	-5.49	5.80	-2.83	2.68
176	445	471	498	-2.04	-5.51	5.82	-2.85	2.70
177	435	460	487	-2.03	-5.53	5.85	-2.87	2.72
178	425	450	477	-2.03	-5.55	5.87	-2.90	2.74
179	416	441	467	-2.02	-5.58	5.89	-2.92	2.76
180	407	431	457	-2.01	-5.60	5.92	-2.95	2.79
181	398	422	447	-2.00	-5.62	5.94	-2.97	2.81
182	390	413	438	-1.99	-5.64	5.96	-2.99	2.83
183	381	404	428	-1.98	-5.66	5.99	-3.02	2.85
184	373	396	419	-1.97	-5.68	6.01	-3.04	2.87
185	365	387	411	-1.97	-5.70	6.03	-3.07	2.90
186	357	379	402	-1.96	-5.72	6.05	-3.09	2.92
187	350	371	394	-1.95	-5.74	6.08	-3.12	2.94
188	343	363	386	-1.94	-5.76	6.10	-3.14	2.97
189	335	356	378	-1.93	-5.78	6.12	-3.17	2.99
190	328	349	370	-1.93	-5.80	6.14	-3.19	3.01
191	321	341	362	-1.92	-5.82	6.16	-3.22	3.03
192	315	334	355	-1.91	-5.84	6.19	-3.24	3.06
193	308	327	348	-1.90	-5.86	6.21	-3.27	3.08
194	302	321	341	-1.89	-5.87	6.23	-3.29	3.10
195	296	314	334	-1.89	-5.89	6.25	-3.32	3.13
196	290	308	327	-1.88	-5.91	6.27	-3.34	3.15
197	284	302	321	-1.87	-5.93	6.30	-3.37	3.17
198	278	296	314	-1.86	-5.95	6.32	-3.39	3.20
199	272	290	308	-1.85	-5.97	6.34	-3.42	3.22
200	267	284	302	-1.85	-5.99	6.36	-3.44	3.24
201	261	278	296	-1.84	-6.01	6.38	-3.47	3.27
202	256	273	290	-1.83	-6.03	6.40	-3.50	3.29
203	251	267	284	-1.82	-6.05	6.42	-3.52	3.32
204	246	262	279	-1.82	-6.06	6.45	-3.55	3.34
205	241	257	273	-1.81	-6.08	6.47	-3.58	3.36

Resistance-Temperature CharacteristicsPart No. : **ESDT503F3950FA-S**

R25 : 50,000	Ω	±	1%
B25/50 : 3950	K	±	1%

Temperature (°C)	Resistance (Ω)			Temp. Coef. (%/°C)	Resist. Tol. (%)		Temp. Tol. (°C)	
	MIN.	CENTER	MAX.		MIN.	MAX.	MIN.	MAX.
206	236	252	268	-1.80	-6.10	6.49	-3.60	3.39
207	232	247	263	-1.79	-6.12	6.51	-3.63	3.41
208	227	242	258	-1.79	-6.14	6.53	-3.65	3.44
209	223	237	253	-1.78	-6.16	6.55	-3.68	3.46
210	218	233	248	-1.77	-6.18	6.57	-3.71	3.48
211	214	228	243	-1.77	-6.19	6.59	-3.73	3.51
212	210	224	239	-1.76	-6.21	6.61	-3.76	3.53
213	206	220	234	-1.75	-6.23	6.63	-3.79	3.56
214	202	216	230	-1.74	-6.25	6.65	-3.82	3.58
215	198	211	226	-1.74	-6.27	6.67	-3.84	3.61
216	194	207	221	-1.73	-6.28	6.69	-3.87	3.63
217	191	204	217	-1.72	-6.30	6.71	-3.90	3.66
218	187	200	213	-1.72	-6.32	6.74	-3.92	3.68
219	184	196	209	-1.71	-6.34	6.76	-3.95	3.71
220	180	192	205	-1.70	-6.35	6.78	-3.98	3.73
221	177	189	202	-1.70	-6.37	6.80	-4.01	3.76
222	173	185	198	-1.69	-6.39	6.82	-4.04	3.78
223	170	182	194	-1.68	-6.41	6.84	-4.06	3.81
224	167	178	191	-1.68	-6.42	6.86	-4.09	3.83
225	164	175	187	-1.67	-6.44	6.88	-4.12	3.86
226	161	172	184	-1.66	-6.46	6.89	-4.15	3.89
227	158	169	180	-1.66	-6.48	6.91	-4.18	3.91
228	155	166	177	-1.65	-6.49	6.93	-4.20	3.94
229	152	163	174	-1.64	-6.51	6.95	-4.23	3.96
230	149	160	171	-1.64	-6.53	6.97	-4.26	3.99
231	147	157	168	-1.63	-6.54	6.99	-4.29	4.01
232	144	154	165	-1.62	-6.56	7.01	-4.32	4.04
233	141	151	162	-1.62	-6.58	7.03	-4.35	4.07
234	139	149	159	-1.61	-6.60	7.05	-4.38	4.09
235	136	146	156	-1.61	-6.61	7.07	-4.40	4.12
236	134	143	154	-1.60	-6.63	7.09	-4.43	4.15
237	132	141	151	-1.59	-6.65	7.11	-4.46	4.17
238	129	138	148	-1.59	-6.66	7.13	-4.49	4.20
239	127	136	146	-1.58	-6.68	7.15	-4.52	4.23
240	125	134	143	-1.57	-6.70	7.16	-4.55	4.25
241	122	131	141	-1.57	-6.71	7.18	-4.58	4.28
242	120	129	138	-1.56	-6.73	7.20	-4.61	4.31
243	118	127	136	-1.56	-6.74	7.22	-4.64	4.33
244	116	125	134	-1.55	-6.76	7.24	-4.67	4.36
245	114	122	131	-1.54	-6.78	7.26	-4.70	4.39
246	112	120	129	-1.54	-6.79	7.28	-4.73	4.41



Resistance-Temperature Characteristics

Part No. : **ESDT503F3950FA-S**

R25 :	50,000	Ω	±	1%
B25/50 :	3950	K	±	1%

Temperature (°C)	Resistance (Ω)			Temp. Coef. (%/°C)	Resist. Tol. (%)		Temp. Tol. (°C)	
	MIN.	CENTER	MAX.		MIN.	MAX.	MIN.	MAX.
247	110	118	127	-1.53	-6.81	7.30	-4.76	4.44
248	108	116	125	-1.53	-6.82	7.31	-4.79	4.47
249	107	114	123	-1.52	-6.84	7.33	-4.82	4.50
250	105	112	121	-1.52	-6.86	7.35	-4.85	4.52