

DO-35 Series Thermistor – 5KF3550DPGS



- PCB Mounting
- Hermetically sealed elements, glass encapsulation
- Axial Leads
- High temperature devices for applications to +200°C
- RoHS Compliant

DESCRIPTION

The NTC Chip hermetically sealed in a glass (DO-35 diode style) package.

FEATURES

- Hermetically sealed glass package
- Proven Stability and Reliability
- High temperature capability to +200°C
- 24AWG Tin Plated Copper Leads
- Low cost
- Temperature range -40 °C to +200 °C

APPLICATIONS

- Low cost probe assemblies
- Consumer electronics
- PCB temperature sensing
- Air conditioning

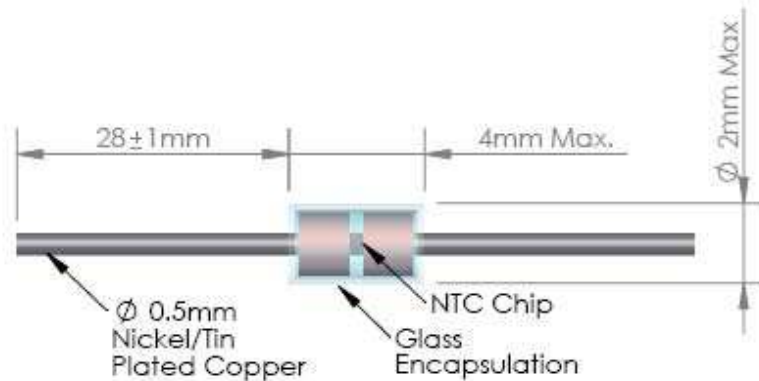
PERFORMANCE SPECS

Parameters	Units	Value
Resistance @ +25 °C	Ohms	5,000
Resistance tolerance @ +25 °C	%	1
Beta Value 25/85	K	3550
Tolerance on Beta Value 25/85	%	2
Time response in still air	Seconds	<7
Dissipation Constant in still air	mW/°C	2.5

Reliability Tests	Standard	Test Condition	Delta R
Storage in Dry Heat	IEC 60068-2-2	Storage temperature: 200 °C & 250 °C Duration: 1000 hours	< 3%
Storage in Damp Heat	IEC 60068-2-3	Temperature of air is 40 °C & RH 93% Duration: 56 days.	< 2%
Rapid Temperature Cycling	IEC 60068-2-14	Lower Test Temperature -55 °C Upper Test Temperature +200 °C Number of Cycles 50	< 2%

DO-35 Series Thermistor

MECHANICAL DETAILS



RESISTANCE V TEMPERATURE TABLE

Temp. °C	KOhms
-40	120.3333
-39	113.2156
-38	106.5695
-37	100.3604
-36	94.5568
-35	89.1294
-34	84.0515
-33	79.2981
-32	74.8464
-31	70.6753
-30	66.7653
-29	63.0984
-28	59.6579
-27	56.4283
-26	53.3954
-25	50.5459
-24	47.8676
-23	45.3491
-22	42.9799
-21	40.7502
-20	38.6509
-19	36.6736
-18	34.8104
-17	33.0541
-16	31.3978
-15	29.8353
-14	28.3606

Temp. °C	KOhms
-13	26.9683
-12	25.6533
-11	24.4108
-10	23.2365
-9	22.1261
-8	21.0758
-7	20.0819
-6	19.1412
-5	18.2505
-4	17.4067
-3	16.6072
-2	15.8494
-1	15.1309
0	14.4494
1	13.8027
2	13.1889
3	12.6062
4	12.0528
5	11.5270
6	11.0273
7	10.5523
8	10.1006
9	9.6709
10	9.2621
11	8.8730
12	8.5025
13	8.1497

Temp. °C	KOhms
14	7.8137
15	7.4934
16	7.1881
17	6.8971
18	6.6195
19	6.3547
20	6.1021
21	5.8609
22	5.6306
23	5.4107
24	5.2007
25	5.0000
26	4.8082
27	4.6248
28	4.4495
29	4.2818
30	4.1213
31	3.9678
32	3.8208
33	3.6801
34	3.5453
35	3.4163
36	3.2926
37	3.1741
38	3.0605
39	2.9516
40	2.8472

Temp. °C	KOhms
41	2.7470
42	2.6509
43	2.5587
44	2.4701
45	2.3851
46	2.3035
47	2.2252
48	2.1499
49	2.0775
50	2.0080
51	1.9413
52	1.8771
53	1.8154
54	1.7561
55	1.6989
56	1.6440
57	1.5910
58	1.5401
59	1.4910
60	1.4438
61	1.3983
62	1.3544
63	1.3121
64	1.2714
65	1.2322
66	1.1943
67	1.1578

DO-35 Series Thermistor

68	1.1226
69	1.0887
70	1.0559
71	1.0243
72	0.9938
73	0.9644
74	0.9359
75	0.9085
76	0.8820
77	0.8564
78	0.8317
79	0.8078
80	0.7847
81	0.7624
82	0.7408
83	0.7199
84	0.6998
85	0.6803
86	0.6614
87	0.6432
88	0.6255
89	0.6084
90	0.5919
91	0.5759
92	0.5604
93	0.5454
94	0.5309
95	0.5168
96	0.5032
97	0.4900
98	0.4772
99	0.4648
100	0.4527
101	0.4411

102	0.4298
103	0.4189
104	0.4082
105	0.3979
106	0.3880
107	0.3783
108	0.3689
109	0.3597
110	0.3509
111	0.3423
112	0.3339
113	0.3258
114	0.3180
115	0.3103
116	0.3029
117	0.2957
118	0.2887
119	0.2819
120	0.2753
121	0.2689
122	0.2626
123	0.2565
124	0.2506
125	0.2449
126	0.2393
127	0.2339
128	0.2286
129	0.2235
130	0.2185
131	0.2136
132	0.2089
133	0.2043
134	0.1998
135	0.1954

136	0.1912
137	0.1870
138	0.1830
139	0.1791
140	0.1753
141	0.1715
142	0.1679
143	0.1644
144	0.1609
145	0.1576
146	0.1543
147	0.1511
148	0.1480
149	0.1450
150	0.1420
151	0.1391
152	0.1363
153	0.1336
154	0.1309
155	0.1283
156	0.1257
157	0.1232
158	0.1208
159	0.1185
160	0.1161
161	0.1139
162	0.1117
163	0.1095
164	0.1074
165	0.1054
166	0.1034
167	0.1014
168	0.0995
169	0.0977

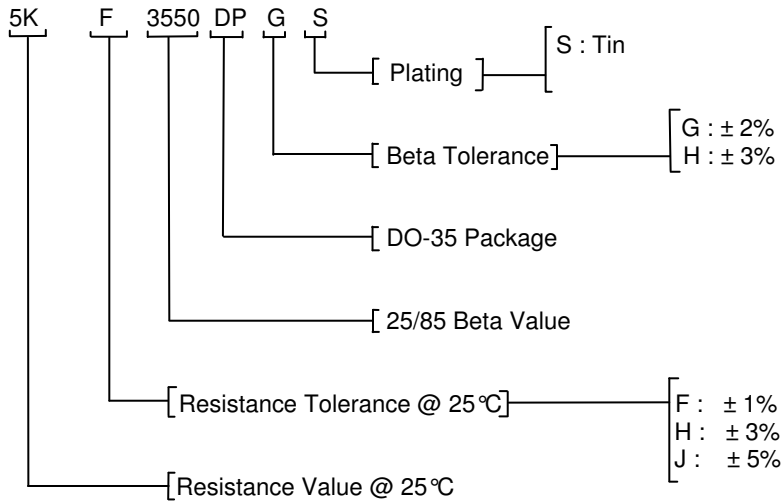
170	0.0958
171	0.0941
172	0.0923
173	0.0906
174	0.0890
175	0.0873
176	0.0858
177	0.0842
178	0.0827
179	0.0812
180	0.0798
181	0.0783
182	0.0770
183	0.0756
184	0.0743
185	0.0730
186	0.0717
187	0.0705
188	0.0692
189	0.0681
190	0.0669
191	0.0658
192	0.0646
193	0.0635
194	0.0625
195	0.0614
196	0.0604
197	0.0594
198	0.0584
199	0.0575
200	0.0565

ORDERING INFORMATION

DO-35 Series Thermistor

Part Number	Description	Ω @25°C	MOQ
5KF3550DPGS	DO-35 Series Thermistor	5,000	5,000*

* For quantities less than Minimum Order Quantity – Contact Distribution



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