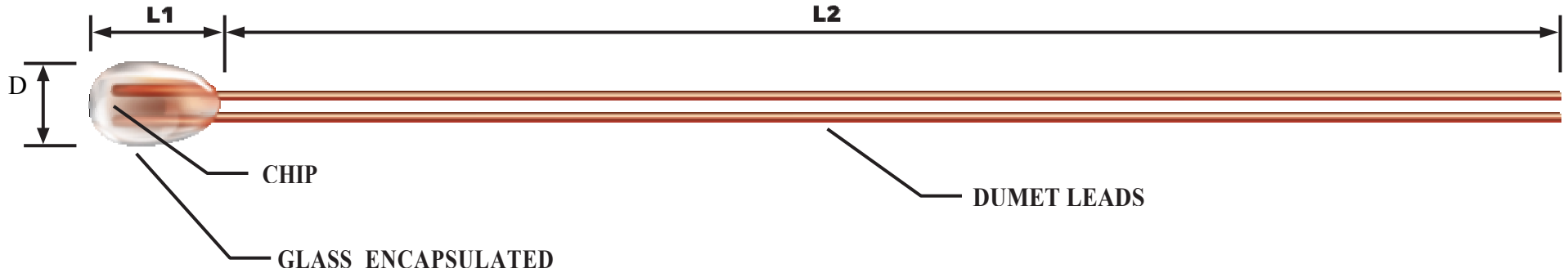


# Part Number: DG 503410



### Electrical Specifications:

Resistance @ 25°C	50 kΩ ±2%
Temperature Coefficient of Resistance	-4.75% / °C
Operating Temperature Range	-40°C to +300°C
Dissipation Constant	≥0.5mW / °C
Thermal Time Constant	≤ 6.5 Seconds
Material Constant (Beta)	4036°K ±2%
Maximum Continuous Power	30 mW

### Mechanical Specifications:

D	1.3mm ±0.2mm
L1	2.8mm Max
L2	65mm ±5.0mm
Lead Diameter	0.2mm ±0.05mm

Rev :	Date:	Change:
0	5/24/16	Issue
1	11/3/16	Changed max temp. to 300°C

DRAWN BY: C. Terry		<b>AMETHERM</b> Circuit Protection Thermistors
DATE: 5/24/16	REV: 1	
ORIG. M Samii	APPR: M. Samii	NTC THERMISTOR
SHEET 1 of 2		DG 503410

## RESISTANCE VS TEMPERATURE CURVE

Temp. (°C)	Rt / R25 Nominal	Temp. Coef (% / °C)
-40	35.42	-6.75
-35	25.42	-6.52
-30	18.45	-6.30
-25	13.53	-6.09
-20	10.03	-5.89
-15	7.507	-5.70
-10	5.671	-5.52
-5	4.322	-5.35
0	3.322	-5.18
5	2.574	-5.02
10	2.010	-4.87
15	1.582	-4.72
20	1.253	-4.58
25	1.000	-4.45
30	0.8033	-4.32
35	0.6493	-4.20
40	0.5280	-4.08
45	0.4318	-3.96
50	0.3551	-3.86
55	0.2936	-3.75
60	0.2440	-3.65
65	0.2038	-3.55
70	0.1710	-3.46
75	0.1442	-3.37
80	0.1221	-3.28
85	0.1038	-3.20
90	0.08862	-3.12
95	0.07596	-3.04
100	0.06535	-2.97

Temp. (°C)	Rt / R25 Nominal	Temp. Coef (% / °C)
105	0.05644	-2.90
110	0.04891	-2.83
115	0.04253	-2.76
120	0.03710	-2.70
125	0.03247	-2.64
130	0.02851	-2.58
135	0.02509	-2.52
140	0.02216	-2.46
145	0.01962	-2.41
150	0.01742	-2.35
155	0.01551	-2.30
160	0.01384	-2.25
165	0.01238	-2.20
170	0.01111	-2.15
175	0.009986	-2.11
180	0.008998	-2.06
185	0.008126	-2.02
190	0.007354	-1.98
195	0.006669	-1.93
200	0.006060	-1.89
205	0.005518	-1.86
210	0.005034	-1.82
215	0.004600	-1.78
220	0.004212	-1.75
225	0.003864	-1.71
230	0.003550	-1.68
235	0.003267	-1.64
240	0.003011	-1.61
245	0.002780	-1.58
250	0.002571	1.55

DRAWN BY: C. Terry

DATE: 5/24/16

REV: 1

ORIG. M Samii

APPR: M Samii

SHEET 2 of 2



NTC THERMISTOR

DG 503410

# Mouser Electronics

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