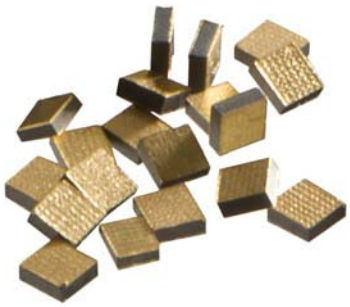
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10K3CG Gold Leadless Chip



- **Rapid Time response**
- **Surface Mount Capability**
- **Uniformly Sized for Pick & Place Assembly**
- **Square and Rectangular Configuration**
- **RoHS Compliant**

DESCRIPTION

Gold terminated leadless NTC thermistor.

FEATURES

- Rapid Time Response (<1second in liquids)
- Supplied with ±5% and ±10% tolerance
- Higher precision tolerance available
- Surface Mount Capability
- Supplied in “gel” or waffle” packs
- Square or Rectangular Configurations
- Temperature range -40 ºC to +125ºC

APPLICATIONS

- WDM (Wavelength Division Multiplexing) for advanced frequency control in communications systems and wireless applications
- Thermopile sensors for thermal radiation recognition and infrared sensing
- Thermal protection of sensitive circuits
- Hybrid circuit temperature compensation
- Localized temperature sensing

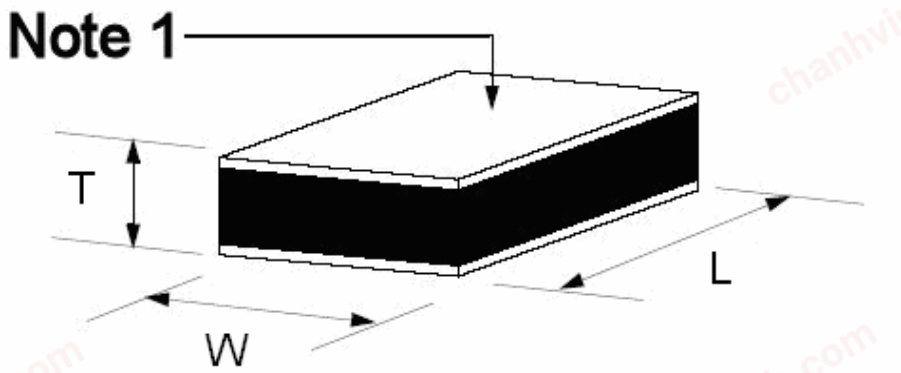
PERFORMANCE SPECS

Parameters	Units	Value
Resistance @ +25°C	Ohms	10,000
10K3CG3 Resistance tolerance +25°C	%	± 5
10K3CG2 Resistance tolerance +25°C	%	± 10
Alpha Value @ 25°C	%/°C	- 4.39
Beta Value 25/85	K	3976
Time response in Liquids	Seconds	<1
Dissipation Constant in still air	mW/°C	1

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MECHANICAL DETAILS



	Dimensions					
	Millimeters			Inches		
	L	W	T	L	W	T
	1.016	1.016	0.305	0.040	0.040	0.012
Note 1	Gold Metalisation					

RESISTANCE V TEMPERATURE TABLE

Temp. °C	Ohms	Temp. °C	Ohms	Temp. °C	Ohms	Temp. °C	Ohms
-40	336098	-19	91553	2	29500	23	10923
-39	314553	-18	86439	3	28054	24	10450
-38	294524	-17	81641	4	26687	**25**	**10000**
-37	275897	-16	77138	5	25395	26	9572
-36	258563	-15	72911	6	24172	27	9165
-35	242427	-14	68940	7	23016	28	8777
-34	227398	-13	65209	8	21921	29	8408
-33	213394	-12	61703	9	20885	30	8056
-32	200339	-11	58405	10	19903	31	7721
-31	188163	-10	55304	11	18973	32	7402
-30	176803	-9	52385	12	18092	33	7097
-29	166198	-8	49638	13	17257	34	6807
-28	156294	-7	47050	14	16465	35	6530
-27	147042	-6	44613	15	15714	36	6266
-26	138393	-5	42317	16	15001	37	6014
-25	130306	-4	40151	17	14324	38	5774
-24	122741	-3	38110	18	13682	39	5544
-23	115661	-2	36184	19	13073	40	5325
-22	109032	-1	34366	20	12493	41	5116
-21	102824	0	32651	21	11943	42	4916
-20	97006	1	31031	22	11420	43	4724

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10K3CG Gold leadless chip

44	4542
45	4367
46	4200
47	4040
48	3887
49	3741
50	3601
51	3467
52	3339
53	3216
54	3098
55	2985
56	2877
57	2773
58	2674
59	2579
60	2487
61	2399
62	2315
63	2234
64	2157

65	2082
66	2011
67	1942
68	1876
69	1813
70	1752
71	1693
72	1637
73	1582
74	1530
75	1480
76	1432
77	1385
78	1341
79	1298
80	1256
81	1216
82	1178
83	1141
84	1105
85	1070

86	1037
87	1005
88	974
89	945
90	916
91	888
92	862
93	836
94	811
95	787
96	764
97	741
98	720
99	699
100	678
101	659
102	640
103	622
104	604
105	587
106	571

107	555
108	539
109	524
110	510
111	496
112	482
113	469
114	457
115	444
116	432
117	421
118	410
119	399
120	388
121	378
122	368
123	359
124	350
125	341

ORDERING INFORMATION

Part Number	Description	Ω @25ºC	MOQ
10K3CG3	10K Gold leadless chip 5% @ +25°C	10,000	1,000*
10K3CG2	10K Gold leadless chip 10% @ +25°C	10,000	1,000*

* For quantities less than Minimum Order Quantity – Contact Distribution

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910 Turnpike Road
Shrewsbury, MA 01545
Tel: 1-508-842-0516
Fax: 1-508-842-0342

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Fax: +353-91-770789

Sales email:
temperature.sales.emea@meas-spec.com

ASIA

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