

# 2.2K3CG 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  $\pm 5\%$  and  $\pm 10\%$  tolerance
- Higher precision tolerance available
- Surface Mount Capability
- Supplied in "gel" or waffle" packs
- Square or Rectangular Configurations
- Temperature range  $-40\text{ }^{\circ}\text{C}$  to  $+125\text{ }^{\circ}\text{C}$

## APPLICATIONS

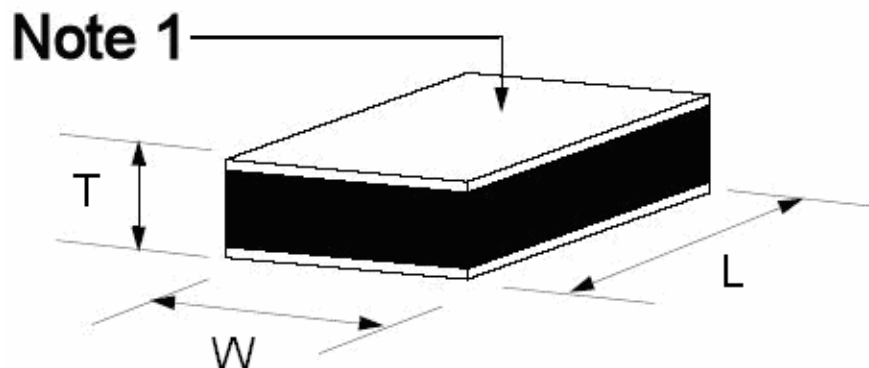
- WDM (Wavelength Division Multiplexing) for advanced frequency control in communications systems and wireless applications
- Thermopile sensors for thermal radiation recognition and infrared sensing
- Thermal protection of sensitive circuits
- Hybrid circuit temperature compensation
- Localized temperature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

## PERFORMANCE SPECS

Parameters	Units	Value
Resistance @ $+25\text{ }^{\circ}\text{C}$	Ohms	2,252
2.2K3CG3 Resistance tolerance $+25\text{ }^{\circ}\text{C}$	%	$\pm 5$
2.2K3CG2 Resistance tolerance $+25\text{ }^{\circ}\text{C}$	%	$\pm 10$
Alpha Value @ $25\text{ }^{\circ}\text{C}$	$\%/^{\circ}\text{C}$	- 4.39
Beta Value 25/85	K	3976
Time response in Liquids	Seconds	<1
Dissipation Constant in still air	mW/ $^{\circ}\text{C}$	1

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### MECHANICAL DETAILS



	Dimensions					
	Millimeters			Inches		
	L	W	T	L	W	T
	1.905	1.905	0.254	0.075	0.075	0.010
<b>Note 1</b>	Gold Metalisation					

### RESISTANCE V TEMPERATURE TABLE

Temp. °C	Ohms	Temp. °C	Ohms	Temp. °C	Ohms	Temp. °C	Ohms
-40	75491	-20	21832	0	7353	20	2814
-39	70663	-19	20606	1	6988	21	2690
-38	66173	-18	19456	2	6644	22	2572
-37	61996	-17	18377	3	6318	23	2460
-36	58109	-16	17364	4	6010	24	2353
-35	54489	-15	16413	5	5719	<b>25</b>	<b>2252</b>
-34	51118	-14	15520	6	5444	26	2156
-33	47975	-13	14681	7	5183	27	2064
-32	45045	-12	13892	8	4937	28	1977
-31	42312	-11	13150	9	4703	29	1893
-30	39761	-10	12452	10	4482	30	1814
-29	37380	-9	11795	11	4273	31	1739
-28	35156	-8	11177	12	4075	32	1667
-27	33077	-7	10595	13	3886	33	1598
-26	31134	-6	10046	14	3708	34	1533
-25	29317	-5	9529	15	3539	35	1471
-24	27617	-4	9042	16	3378	36	1411
-23	26026	-3	8582	17	3226	37	1354
-22	24536	-2	8148	18	3081	38	1300
-21	23140	-1	7739	19	2944	39	1248

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40	1199	62	521	84	249	106	129
41	1152	63	503	85	241	107	125
42	1107	64	486	86	234	108	122
43	1064	65	469	87	226	109	118
44	1023	66	453	88	220	110	115
45	983	67	437	89	213	111	112
46	946	68	422	90	206	112	109
47	910	69	408	91	200	113	106
48	875	70	394	92	194	114	103
49	842	71	381	93	188	115	100
50	811	72	369	94	183	116	98
51	781	73	356	95	177	117	95
52	752	74	345	96	172	118	92
53	724	75	333	97	167	119	90
54	698	76	322	98	162	120	88
55	672	77	312	99	157	121	85
56	648	78	302	100	153	122	83
57	624	79	292	101	149	123	81
58	602	80	283	102	144	124	79
59	581	81	274	103	140	125	77
60	560	82	265	104	136		
61	540	83	257	105	132		

### ORDERING INFORMATION

Part Number	Description	$\Omega$ @25°C	MOQ
2.2K3CG3	2.2K Gold leadless chip 5% @ +25°C	2,252	1,000*
2.2K3CG2	2.2K Gold leadless chip 10% @ +25°C	2,252	1,000*

\* For quantities less than Minimum Order Quantity – Contact Distribution

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