

Key Features

■ Terminal finish: Matte Sn ■ Seven Package Sizes low capacitance. short lead structure and operation, owing to the

including zero ohm links. oslA .%2 bns %f 10M and tolerances of of mile from 1 ohm to purpose use. industrial and general ratio, ideally suited to a high power to size Thick film resistors with

high frequency applications, including som tot eldefiu2

Type CRG Series



made by electroplating. plating is fired on and the strips broken into individual components. Final termination is resistor is trimmed to tolerance by laser. The pre-scribed tile is broken into strips, the end resistive element is screen printed and fired and the passivation layer added. Each Precious metal terminations are screen printed onto a ceramic base and fired. The

Characteristics - Electrical

Resistan	ce Max	m 02>	шчО					n 02>	ицОи	u					
Zerohm (A) Curre	xsM in	0	9	î.		į.		2		2		2		2	
(%) yiilidat2								3							
Insulation Resistan Min (Mohms)	ice Diy						01	00							
Climatic Category ((၁.						1/99	99/98							
Operating Temp, Ran	(ე ₆) a6						ot 88-	+152							
Max Overload Voltag	8e (A)	90	(100		100	3	00	þ	001		00Þ		101	C
Working Voltage (V	(S2 20			20	I.	09	5	500		500	500		C	
		0501 0405)	£090	80	90	I.	506		2010		321	2
Temp. Coefficient ((D°/mag	00S±	001±	00⊅∓	00S±	4200	001±	001>∓)ZŦ	F 00	00S4)01±		00	+200
			96 3				963					963	- 1		
Selection Series		ES¢	ES4	ES¢	ESt	ES¢	ES¢	ES¢	23	170	ES¢	ESd	:E	70	ES¢
Code letter		4	크	r	r	님	크	٢	٢		님	± L	`	١	٢
Tolerance (%)		ı	Į.	9	9	ŀ	ļ	g	9	!	Į.	ŀ	ì	9	g
smdO	Max	100	OMI	10	MOF	100	OWI	10	101	M	100	TIME	1 1	0	MOI
Aesistance Range	niM	Į.	101	ŀ	11	ļ.	101	I.	11	ı	Į.	101	L		11
OT @ 19WOY bats?	(W) O		.0	97			0	1 9.0							
			15	200 2010								2	212		_
lemp. Coefficient (p	(D _v udo	00Z#	00Þ#	00S±	001∓	00⊅∓	00S±	±200	0017	0027	9027	9500	001±	UU1₽∓	150
		963			963			_	963	-		300	963	-	
Selection Series		ES¢	E5¢	ES¢	ES¢	ESt	ES¢	E54	E54	ES¢	E54	E5¢	ES¢	ES¢	ES
Sode letter		4	٢	٢	Ь	٢	٢	4	4	٢	٢	4	4	٢	r
folerance (%)		1	9	g	1	9	g	1	ŀ	g	ç	l.	L	ç	g
(sm40	xsM	OMI	10	OWI	SMO	01	SMS	1001	OWI	10	MOI	100	OWI	10	NOL
Pesistance Range	niM	01	I.	H	01	ı	11	ŀ	101	ı	11	1.	101	Į.	11
sated Power @ 70 °	C (M)		30.0			690.0		•	1.0	-			1.0	SS	
		0201				0402 0603				20			80	cn	

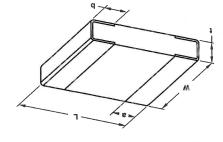
are standard equivalents.

specified. Values in brackets



Type CRG Series

2noiznamiO



q	8	1	W	7	Style
0.0± 31.0	20.0± 01,0	0.23 ±0.03	£0.0± £.0	£0.0± ∂.0	0201
1.0± 3S.0	1.0± S.0	60.0± ∂£.0	90.0± 2.0	1.0± 0.1	0405
1.0± £.0	S.0± E.0	f,0± &4,0	21,0± 8,0	1.0± 8.1	6090
S.0± \$.0	S.0± 4.0	1.0± 55.0	1.25 ±0.15	2.0 ±0.15	9080
S.0± 84.0	S.0± 84.0	f.0± 22.0	31.0± 88.1	31.0± 1.6	1206
2.0± 2.0	6.6 ±0.25	1.0± 88.0	2.5 ±0.15	1.0± 0.3	2010
S.0± ∂.0	0.6 ±0,25	1.0± 33.0	3.2 ±0.15	1.0± 25.3	2512

Marking Codes - Case Sizes 0805 to 2512

BC 4 Digit Marking

Case Sizes 0603

1003	₹665	1002	2201	1000	Marking Code
100KD	Ω⋊6.9kΩ	10KÜ	2.2KD	10001	Resistance

E24 3 Digit Marking - Example: 101=100 Ω 102=1 $K\Omega$

16	28	SZ	89	85	99	IS	LÞ	£43	68	36	33	
30	ZZ	24	22	50	81	91	12	13	12	LL	10	ESt
-				V 5.			The Control				_	•

E96 3 Digit Marking - Examples: 14C=13K7Q, 13C=13K3Q, 68B=4K99Q, 68X=49.9Q



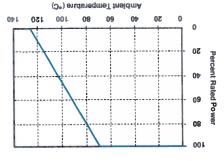
0603 E96 Marking Code Table

100	-01	101	401	401	40ء	101	102	₹01	101	40s	Multiplier
Z	Д	Х	Н	ອ	3	3	a	0	8	A	Sode
94	6	96	61	7 9	ST	61	30	817	t	41	24
23	6	96	91	29	1-4	Į.(30	47	6	91	53
31	6	7 6	83	39	04	þ	58	97	9	91	55
60	16	68	L	.9	69	L	SS	97	2	91	51
48	18	26	66	5Þ	89	0	8Z	カヤ	8	91	20
99	18	16		3Þ	۷9	7.	ZZ	43	t	91	61
St	8	06	9,	LÞ	99		Se	45	C	91	81
55	8	68	797		99	Į.	41 561			.bl	41
90	8	88	£91⁄2		† 9	S 22		01⁄2	8	71	91
28	32	78	442		69	549		68	0	lt/L	SI
89	1	98	432		29	243		38		13.	ÞL
09	iL	92	422		19	237		75	8	13:	13
35	Z	1/8	412		09	535		98	(130	12
91		83	402		69	526		32	1	15.	11
86	39	28	365		89	221		34	t	15	10
18	39	18	585		49	212		33	-	15.	60
99	9	08	374		99	0	5.1	35	8	311	80
6t	79	64	392		22	9	50	31	9	116	40
178	9	84	786		179	500		30	1	113	90
61	.9	LL	348		23	961		59	(110	90
þ(9	92	340		25	161		58	4	101	Þ 0
06	39	94	335		187 51 33		18	ZZ	9	30 t	03
92	19	47	7	35	90	182		56 182		105	02
25	99	23	9	18	617	8	41	52	(100	10
96	3 3	epog	9	6 3	Code	9	6 3	Code	9)63	Code



Type CRG Series

Derating Curve



Mounting

The resistors are suitable for processing on automatic insertion equipment.

Marking

CRG0805, CRG1206, CRG2010, CRG2512 E24 series resistors are marked with a three digit code. E96 series resistors are marked with a four digit code.

Zerohm components are marked '0'.

CBG0603

E24 5% series are marked with a three digit code.

E96 series are marked with the international alphanumeric three character code (available on request).

EXCEPT 10, 11, 13, 15, 20 & 75 decades which are marked as the E24 series.

CRG0201 & CRG0402 series unmarked.

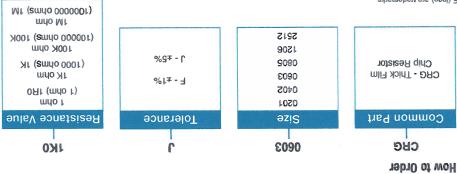
Performance Characteristics

The evaluation of the performance characteristics is carried out with reference to IECQ specifications QC 400 000 and QC 400 100.

81.4	Resistance to soldering heat
61.4	Rapid change of temperature
4.33	Bond strength of end face plating
4.32	Adhesion
61.4	Overhoad
TEST REF	Short Term Tests ±(1% + 0.05 ohm)
4.25.3	O° 321 1s 900 Endurance at 125
1.25.1	Endurance at 70 °C
4.24	Damp heat, steady state
4.23	Climatic sequence
TEST REF	Long Term Tests ±(3% + 0.1 ohm)

Storage

Unopened reets should be stored within a temperature range of +5 °C to +25 °C, separated from any dust, chemicals and solvent based materials. Non-adherence to this procedure could effect the solderability of this product.



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RC1005F471CS RC1005F4751CS RCP0603W100RGED RCWP72251K47FKWB RLR05C7501GPB14 RLR07C5111FSBSL ERJ
IGMF1R00C ERJ-1GMF1R20C ERJ-1GMF2R55C ERJ-1GMF8R66C 25121WF1003T4E 25.501.3653.0 290-1.0M-RC 292-1.0M-RC 292
2.2K-RC 292-4.7K-RC 25121WF4700T4E 292-470K-RC 302-1.0M-RC CPG1206F10KC CRCW02011R00FXED CRCW060315K0FKEE

CRCW060320K5FKEE CRG0201F10K RCG0402150RFKED RCG04023K92FKED RCP2512B100RGWB RCWP110010R0FKS3

RCWP11002K00FKS3 RCWP12061K00FKS2 3520510RJT 352075KJT M55342K11B9E53RUL RMC16-102JT RMC1JPTE TR0603MR
075K1L 5-2176094-4 35202K7JT WF06Q1000FTL ERJ-S03J1R0V ERJ-S14J4R7U CHP2512L4R30GNT CPCC10270R0JE32

RCWP11001K00FKS3