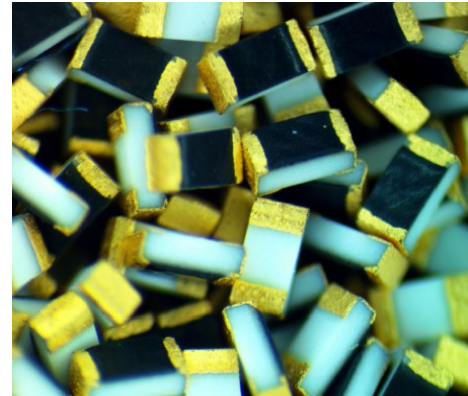
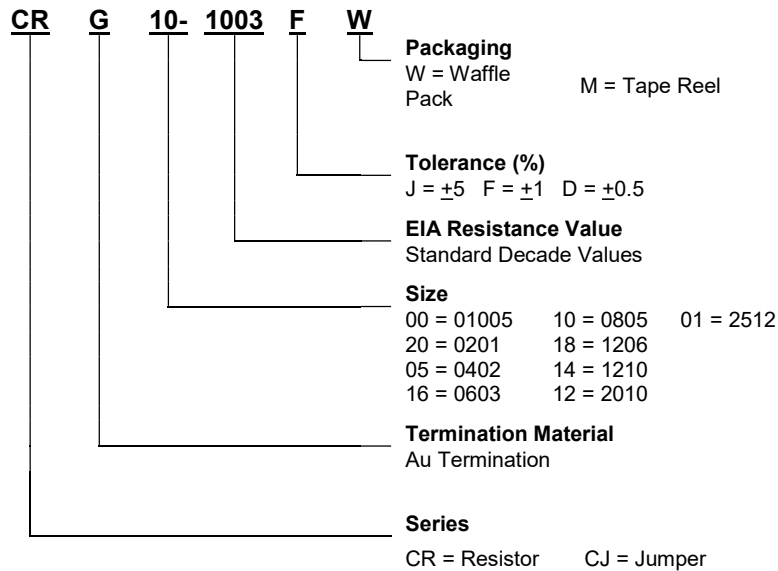


HOW TO ORDER

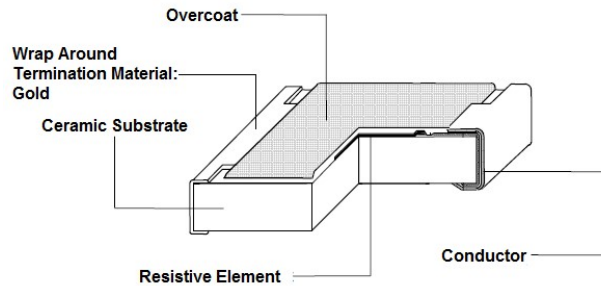
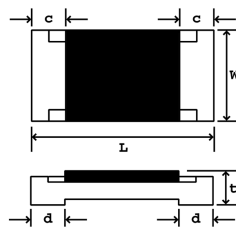


FEATURES

- Excellent reliability
- Gold Thickness start from 7.87 μ m

SCHEMATIC

Wrap Around Terminal
CRG, CJG type



DIMENSIONS (mm)

Size	Size Code	L	W	c	d	t
01005	00	0.40 \pm 0.02	0.20 \pm 0.02	0.10 \pm 0.03	0.10 \pm 0.03	0.13 \pm 0.02
0201	20	0.60 \pm 0.03	0.30 \pm 0.03	0.10 \pm 0.05	0.15 \pm 0.05	0.23 \pm 0.03
0402	05	1.00 \pm 0.05	0.50 \pm 0.05	0.20 \pm 0.10	0.25 \pm 0.05	0.35 \pm 0.05
0603	16	1.60 \pm 0.15	0.80 + 0.15, -0.05	0.30 \pm 0.20	0.30 \pm 0.15	0.45 \pm 0.10
0805	10	2.00 \pm 0.20	1.25 \pm 0.10	0.40 \pm 0.20	0.40 \pm 0.20	0.60 \pm 0.10
1206	18	3.20 +0.05, -0.20	1.60 +0.05, -0.15	0.50 \pm 0.20	0.50 \pm 0.20	0.60 \pm 0.10
1210	14	3.20 \pm 0.20	2.50 \pm 0.20	0.50 \pm 0.20	0.50 \pm 0.20	0.60 \pm 0.10
2010	12	5.00 \pm 0.20	2.50 \pm 0.20	0.60 \pm 0.20	0.60 \pm 0.20	0.60 \pm 0.10
2512	01	6.40 \pm 0.20	3.20 \pm 0.20	0.65 \pm 0.20	0.60 \pm 0.20	0.60 \pm 0.10

ELECTRICAL SPECIFICATIONS for CHIP RESISTORS

Size	01005	0201	0402	0603	0805
Power Rating (EIA 575)	1/32W	1/20W	1/10W	1/10W	1/8W
Max. Working Voltage*	15V	25V	50V	75V	150V
Max. Overload Voltage	30V	50V	100V	150V	200V
Operating Temp.	70°C	70°C	70°C	70°C	70°C



Gold Termination Thick Film Chip Resistors

RoHS
Compliant
2011/65/EU

Size	1206	1210	2010	2512
Power Rating (EIA 575)	1/4W	1/2W	3/4W	1W
Max. Working Voltage*	200V	200V	200V	200V
Max. Overload Voltage	400V	400V	500V	500V
Operating Temp.	70°C	70°C	70°C	70°C

* Rated Voltage: $\sqrt{P \times R}$

Size	TCR (ppm/°C)	Tolerance (%) and Resistance	
		F(±1%) & E24, E96	J(±5%) & E-24
01005	± 300	10 to 100Ω	10Ω to 100Ω
	± 200	100 to 1M	100Ω to 1MΩ
0201	±200	10 to 1M	10Ω to 1MΩ
	-400 + 150		1MΩ to 10MΩ
	-100 + 600		1Ω to 10Ω
0402	±100	10 to 1M	
	±200		10Ω to 1MΩ
	-400 + 150		1MΩ to 10MΩ
0603	±100	10 to 1M	
	±200		10Ω to 1MΩ
	-400 + 150		1MΩ to 10MΩ
0805	±100	10 to 1M	
	±200		10Ω to 1MΩ
	-400 + 150		1MΩ to 10MΩ
1206	±100	10 to 1M	
	±200		10Ω to 1MΩ
	-400 + 150		1MΩ to 10MΩ
1210	±100	10 to 1M	
	±200		10Ω to 1MΩ
	-400 + 150		1MΩ to 10MΩ
2010	±100	10 to 1M	
	±200		10Ω to 1MΩ
	-400 + 150		1MΩ to 10MΩ
2512	±100	10 to 1M	
	±200		10Ω to 1MΩ

ELECTRICAL SPECIFICATIONS for ZERO OHM JUMPERS

Series	CJ00 (01005)	CJ20 (0201)	CJ05 (0402)	CJ06 (0603)	CJ10 (0805)	CJ18 (1206)	CJ14 (1210)	CJ12 (2010)
Rated Current	0.5A (70°C)	0.5A (70°C)	1A (70°C)	1A (70°C)	2A (70°C)	2A (70°C)	2A (70°C)	2A (70°C)
Resistance (Max)	50 m Ω	50 m Ω	50 m Ω	50 m Ω	50 m Ω	50 m Ω	50 m Ω	50 m Ω
Max. Overload Current	1A	1A	2.5A	2.5A	5A	5A	5A	5A
Working Temp.	-55°C ~ +125°C	-55°C ~ +125°C	-55°C ~ +155°C	-55°C ~ +155°C	-55°C ~ +155°C	-55°C ~ +155°C	-55°C ~ +155°C	-55°C ~ +155°C



188 Technology Drive Unit H, Irvine, CA 92618
TEL: 949-453-9888 ♦ FAX: 949-453-8889 ♦ Email: sales@aacix.com

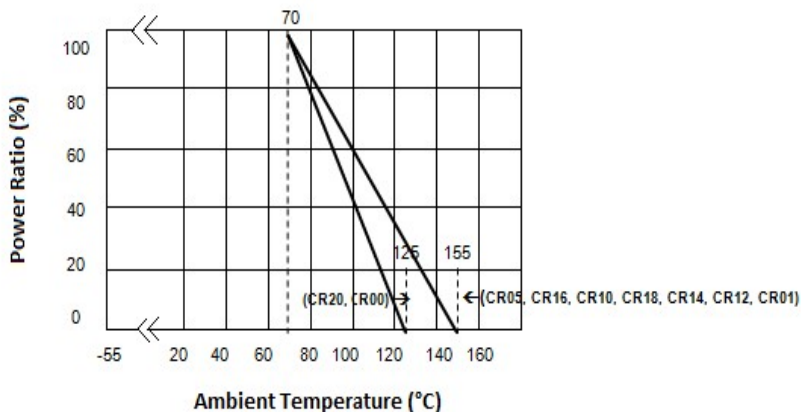
**Halogen
FREE**

RELIABILITY TESTS

Test Items	Reference standard	Condition of Test	Test Limits ΔR
Temperature Coefficient of Resistance	IEC60115-1-4.8 JIS-C5201-1-4.8	-55~+125 °C	Refer 5.0
Short Time Overload	IEC60115-1-4.13 JIS-C5201-1-4.13	2.5 X rate voltage for 5 sec	±(1% + 0.05Ω) 01005, 0201 : ±(3% + 0.1Ω) 0402 : ±(2% + 0.1Ω) 0Ω : 50mΩ or less
Intermittent Overload	IEC60115-1-4.39 JIS-C5201-1-4.39	3.0 X rated voltage or Max Overloading voltage, 1sec "ON", 25sec "OFF", 10000 cycles 0402 2.5 x rated voltage exclude 01005, 0201	±(5.0% + 0.1Ω) 0Ω : 50mΩ or less
Endurance (Load Life)	IEC60115-1-4.25.1 JIS-C5201-1-4.25.1	1000 hours at rated voltage, 70°C, 1.5hours "ON", 0.5hour "OFF"	1% : ±(1.0% + 0.05Ω), 5% : ±(3.0%+ 0.1Ω) 01005, 0201 : ±(5% + 0.1Ω) 0402 : ±(3% + 0.1Ω) 0Ω : 100mΩ or less
Load Life with Humidity	IEC60115-1-4.24 JIS-C5201-1-4.24	1000 hours at rated voltage, 40±2°C, 90~95% RH 1.5hours "ON", 0.5hour "OFF"	1% : ±(1.0% + 0.05Ω), 5% : ±(3.0%+ 0.1Ω) 01005, 0201 : ±(5.0% + 0.1Ω) 0402 : ±(3.0% + 0.1Ω) 0Ω : 100mΩ or less
Rapid Change of Temperature	IEC60115-1-4.19 JIS-C5201-1-4.19	-55°C (30 min.) / +155°C (30 min.) 5 cycles	1% : ±(0.5% + 0.05Ω), 5% : ±(1.0%+0.05Ω) 01005, 0201 : ±(3% + 0.1Ω) 0Ω : 50mΩ or less
Robustness of Termination (Bending)	IEC60115-1-4.33 JIS-C5201-1-4.33	3mm deflection 2mm deflection (RM20,25)	1% : ±(0.5% + 0.05Ω), 5% : ±(1.0%+0.05Ω) 01005, 0201 : ±(1.0% + 0.1Ω) 0Ω : 50mΩ or less
Dielectric Withstanding Voltage (Voltage Proof)	IEC60115-1-4.7 JIS-C5201-1-4.7	Applying voltage: 01005: 50V, 0201: 50V, 0402 & 0603: 300V The other 500V for 1 minute	No abnormalities such as flashover, burning dielectric breakdown shall appear
Insulation Resistance	IEC60115-1-4.6 JIS-C5201-1-4.6	Applying voltage 100V for 1 minute. 01005, 0201, 50V	≥ 1GΩ, 01005 ≥ 100MΩ
Resistance to Dry Heat	IEC60115-1-4.23.2 JIS-C5201-1-4.23.2	155±5°C for 96±4hours 01005, 0201, 125±5°C for 96 ±4hrs	1% : ±(1.0% + 0.05Ω), 5% : ±(2.0% + 0.1Ω) 0201 = ±(2.0% + 0.1Ω) 0Ω : 50mΩ or less 01005 = ±(3.0% + 0.1Ω)
Resistance to Solder Heat	IEC60115-1-4.18 JIS-C5201-1-4.18	270±5°C solder, 10±1 sec dwell.	1% : ±(0.5% + 0.05Ω), 5% : ±(1.0% + 0.05Ω) 01005, 0201 : ±(3.0% + 0.1Ω) 0Ω : 50mΩ or less

Note: RCWV: Rated continuous working voltage

DERATING CURVE





Gold Termination Thick Film Chip Resistors

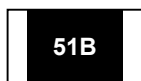
RoHS
Compliant
2011/65/EU

VALUE MARKING

For those parts ordered with an E-24 value, the product will be marked with a 3 digit code. For those products ordered with an E-96 value, the product will be marked with a 4 digit code. For those parts which fall under E-96 and E-24 values (e.g. 1K ohm is both an E-96 and E-24 value), the part will be marked with a 3 digit code; 4 digit markings for this type is available upon special request.



01005, 0201, and 0402 Size
No marking
E-24 & E-96 Values



0603 Size
EIA 96 Digit Code of 3.32K ohm
E-96 Values



0603, 0805, 1206, 1210, 2010, 2512 Sizes
EIA 3 Digit Code of 10K ohm resistor
E-24 Values, E-96 Values



0805, 1206, 1210, 2010, 2512 Sizes
EIA 4 Digit Code of 121K ohm resistor
E-96 Values

0603 MARKING CODE for E96 VALUES

By combining a specific two digit number and a letter code, you have a series of numeric/alpha digits that give you the complete (E96) resistance value codes for 0603 size part marking.

Value	Code	Value	Code	Value	Code	Value	Code
10.0	01	17.8	25	31.6	49	56.2	73
10.2	02	18.2	26	32.4	50	57.6	74
10.5	03	18.7	27	33.2	51	59.0	75
10.7	04	19.1	28	34.0	52	60.4	76
11.0	05	19.6	29	34.8	53	61.9	77
11.3	06	20.0	30	35.7	54	63.4	78
11.5	07	20.5	31	36.5	55	64.9	79
11.8	08	21.0	32	37.4	56	66.5	80
12.1	09	21.5	33	38.3	57	68.1	81
12.4	10	22.1	34	39.2	58	69.8	82
12.7	11	22.6	35	40.2	59	71.5	83
13.0	12	23.3	36	41.2	60	73.2	84
13.3	13	23.7	37	42.2	61	75.0	85
13.7	14	24.3	38	43.2	62	76.8	86
14.0	15	24.9	39	44.2	63	78.7	87
14.3	16	25.5	40	45.3	64	80.6	88
14.7	17	26.1	41	46.4	65	82.5	89
15.0	18	26.7	42	47.5	66	84.5	90
15.4	19	27.4	43	48.7	67	86.6	91
15.8	20	28.0	44	49.9	68	88.7	92
16.2	21	28.7	45	51.1	69	90.9	93
16.5	22	29.4	46	52.3	70	93.1	94
16.9	23	30.1	47	53.6	71	95.3	95
17.4	24	30.9	48	54.9	72	97.6	96

Letter Multiplier Cross Reference

A = 10 C = 1,000 E = 100,000 X = 1
B = 100 D = 10,000 F = 1,000,000 Y = 0.1

0603 Code	Explanation	Value
01B	01 = 10.0 & B = 100	10.0x100 = 1K Ω
25C	25 = 17.8 & C = 1,000	17.8x1,000 = 17.8K Ω
93D	93 = 90.9 & D = 10,000	90.9 x 10,000 = 909K Ω

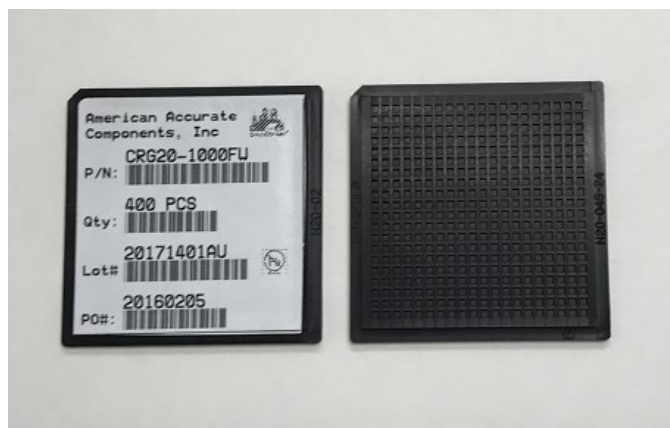
LABEL DESCRIPTION

One side surface of a reel is marked with a label with the following items of information.

1. Manufacturer's name & symbol
2. Part Number
3. Quantity
4. Lot number for production: year/weeks/production lot/suffix
5. Order number

WAFFLE PACKING QUANTITY

CRG 00 (01005)	400 PCS
CRG 20 (0201)	400 PCS
CRG 05 (0402)	400 PCS
CRG 16(0603)	170 PCS



The content may change without notification 5/22/2017.