

Data Sheet

Customer: _____

Product: Automotive Grade Chip Resistor – CR..A Series

Size: 0201/0402/0603/0805/1206/1210/2010/2512

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Automotive Grade Chip Resistor-CR..A Series



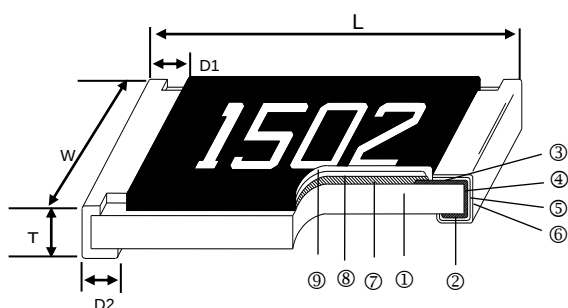
Scope

- This specification applies to all sizes of rectangular-type fixed chip resistors with Ruthenium-base as material.

Features

- AEC-Q200 Qualified
- Highly reliable multilayer electrode construction
- Special construction to prevent sulfuration in a sulfur containing environment
- Compatible with all soldering process
- 100% CCD inspection
- MSL: Level 1

Construction



Applications

- Automotive Industry
- Telecommunication Equipments
- Radio and Tape Recorders, TV Tuners
- Digital Cameras, Watches, Pocket Calculators
- Computers, Instruments
- Medical Equipment

① Alumina Substrate	④ Edge Electrode	⑦ Resistor Layer
② Bottom Electrode	⑤ Barrier Layer	⑧ Primary Overcoat
③ Top Electrode	⑥ External Electrode	⑨ Secondary Overcoat

Dimensions

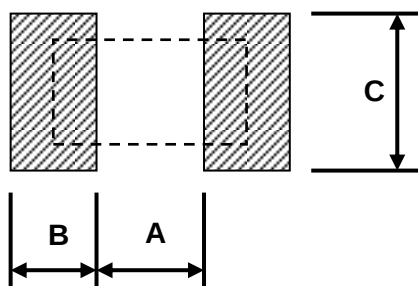
Type	Size (Inch)	L (mm)	W (mm)	T (mm)	D1 (mm)	D2 (mm)	Weight (g) (1000pcs)
CR-01	0201	0.60±0.03	0.30±0.03	0.23±0.03	0.15±0.05	0.15±0.05	0.15
CR-02	0402	1.00±0.05	0.50±0.05	0.35±0.05	0.20±0.10	0.25±0.10	0.62
CR-03	0603	1.60±0.10	0.80±0.10	0.45±0.10	0.30±0.20	0.30±0.20	2.04
CR-05	0805	2.00±0.10	1.25±0.10	0.50±0.10	0.35±0.20	0.40±0.20	4.37
CR-06	1206	3.10±0.10	1.55±0.10	0.55±0.10	0.50±0.25	0.50±0.20	8.95
CR-10	1210	3.10±0.10	2.60±0.15	0.55±0.10	0.50±0.25	0.50±0.20	15.96
CR-0A	2010	5.00±0.10	2.50±0.15	0.55±0.10	0.60±0.25	0.50±0.20	24.24
CR-0A(2W)	2010	5.00±0.10	2.50±0.15	0.74±0.10	0.60±0.30	1.70±0.20	36.86
CR-12	2512	6.35±0.10	3.10±0.15	0.55±0.10	0.60±0.25	0.50±0.20	39.45
CR-12(3W)	2512	6.35±0.20	3.15±0.15	0.74±0.10	0.60±0.30	2.10±0.20	53

Part Numbering

Part Number : CR-03FA7---10R

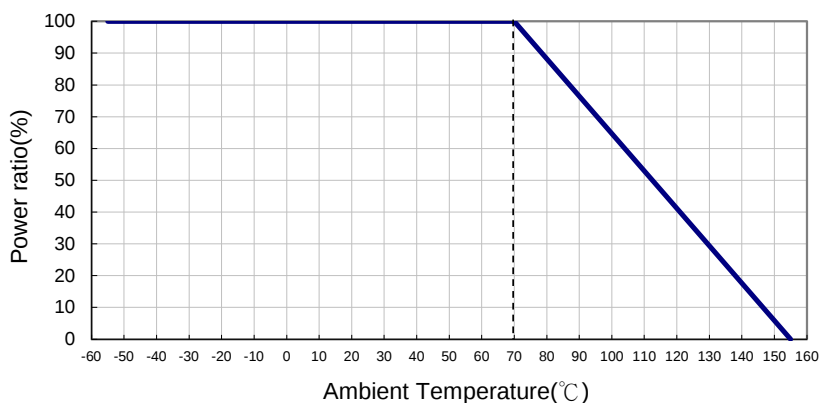
CR-	03	F	A	7	- - - 1 0 R
Product Type	Dimensions	Resistance Tolerance	Function Code	Packaging Code	Resistance
CR-	01: 0201 02: 0402 03: 0603 05: 0805 06: 1206 10: 1210 0A: 2010 12: 2512	D: $\pm 0.5\%$ F: $\pm 1\%$ J: $\pm 5\%$	A: Automotive Grade C: High Power & Automotive Grade D: High Power 1 & Automotive Grade U: Ultra High Power & Automotive Grade Q: Ultra High Power 1 & Automotive Grade	2: 7" Reel 2Kpcs 4: 7" Reel 4Kpcs 6: 7" Reel 10Kpcs 7: 7" Reel 5Kpcs 9: 10" Reel 8Kpcs A: 10" Reel 10Kpcs B: 10" Reel 20Kpcs C: 13" Reel 40Kpcs D: 13" Reel 20Kpcs	--- 1R2: 1.2 Ω --- 3K3: 3.3K Ω --- 10K: 10K Ω -- 100K: 100K Ω ---- 0R: 0 Ω "-" to fill up 6 spaces

Recommend Land Pattern

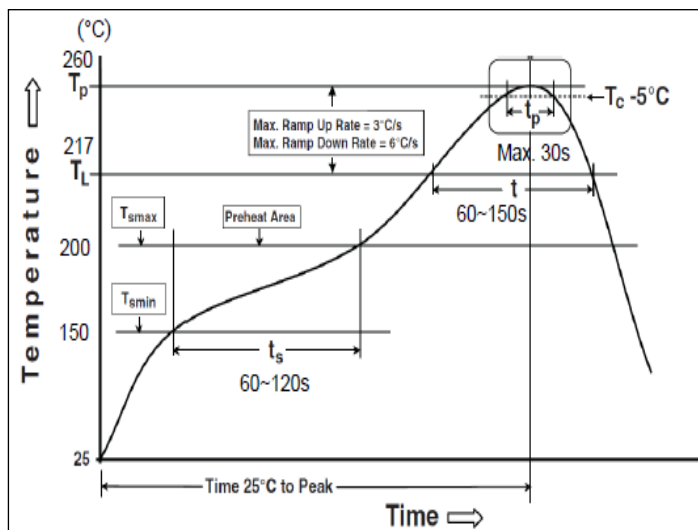


Type	A (mm)	B (mm)	C (mm)
CR-01	0.30	0.25	0.30
CR-02	0.50	0.45	0.60
CR-03	0.90	0.60	0.90
CR-05	1.20	0.70	1.30
CR-06	2.00	0.90	1.60
CR-10	2.00	0.90	2.80
CR-0A	3.80	0.90	2.80
CR-0A(2W)	1.20	2.70	2.80
CR-12	4.90	1.60	3.50
CR-12(3W)	1.00	3.55	3.50

Derating Curve



■ Soldering Condition (Ref. IPC/JEDEC J-STD-020 & J-STD-002)



Reflow Profiles		
Profile Feature		Pb-Free Assembly
Preheat		
Min. Temperature (T_{smin})		150 °C
Max Temperature (T_{smax})		200 °C
Preheating time (t_s) from (T_{smin} to T_{smax})		60-120 seconds
Ramp-up rate (T_L to T_p)		3 °C/second max.
Liquidous temperature (T_L)		217 °C
Time (t_L) maintained above T_L		60-150 seconds
Min. Peak temperature (T_{pmin})		235°C
Max. Peak temperature (T_{pmax})		260°C
Time (t_p) within 5 °C of the specified classification temperature (T_c)		30 seconds max.
Ramp-down rate (T_p to T_L)		6 °C/second max.
Time 25 °C to peak temperature		8 minutes max.

■ Standard Electrical Specifications

Item Type	Power Rating at 70°C	Operating Temp. Range	Max. Operating Voltage	Max. Overload Voltage	Resistance Range		TCR (PPM/°C)
					±1%(E24、E96)	±5%(E24)	
CR-01 (0201)	1/20W	-55 ~ +155°C	25V	50V	1Ω - 10MΩ		±200
CR-02 (0402)	1/16W	-55 ~ +155°C	50V	100V	1Ω - 9.76Ω 10Ω - 1MΩ 1.02MΩ - 10MΩ		±200 ±100 ±200
CR-03 (0603)	1/10W	-55 ~ +155°C	75V	150V	1Ω - 9.76Ω 10Ω - 1MΩ 1.02MΩ - 10MΩ		±200 ±100 ±200
CR-05 (0805)	1/8W	-55 ~ +155°C	150V	300V	1Ω - 9.76Ω 10Ω - 1MΩ 1.02MΩ - 10MΩ		±200 ±100 ±200
CR-06 (1206)	1/4W	-55 ~ +155°C	200V	400V	1Ω - 9.76Ω 10Ω - 1MΩ 1.02MΩ - 10MΩ		±200 ±100 ±200
CR-10 (1210)	1/2W	-55 ~ +155°C	200V	400V	1Ω - 9.76Ω 10Ω - 1MΩ 1.02MΩ - 10MΩ		±200 ±100 ±200
CR-0A (2010)	3/4W	-55 ~ +155°C	400V	800V	1Ω - 9.76Ω 10Ω - 1MΩ 1.02MΩ - 10MΩ		±200 ±100 ±200
CR-12 (2512)	1W	-55 ~ +155°C	500V	1000V	1Ω - 9.76Ω 10Ω - 1MΩ 1.02MΩ - 10MΩ		±200 ±100 ±200

High Precision Electrical Specifications

Type \ Item	Power Rating at 70°C	Operating Temp. Range	Max. Operating Voltage	Max. Overload Voltage	Resistance Range	TCR (PPM/°C)
					±0.5% (E24、E96)	
CR-02 (0402)	1/16W	-55 ~ +155°C	50V	100V	10Ω - 1MΩ	±100
CR-03 (0603)	1/10W		75V	150V	10Ω - 1MΩ	±100
CR-05 (0805)	1/8W		150V	300V	10Ω - 1MΩ	±100
CR-06 (1206)	1/4W		200V	400V	10Ω - 1MΩ	±100
CR-10 (1210)	1/2W		200V	400V	10Ω - 1MΩ	±100
CR-0A (2010)	3/4W		400V	800V	10Ω - 1MΩ	±100
CR-12 (2512)	1W		500V	1000V	10Ω - 1MΩ	±100

High Power & Ultra High Power Rating Electrical Specifications

Type \ Item	Power Rating at 70°C	Function Code	Operating Temp. Range	Max. Operating Voltage	Max. Overload Voltage	Resistance Range			TCR (PPM/°C)
						±0.5% (E24、E96)	±1% (E24、E96)	±5% (E24)	
CR-02 (0402)	1/10W	D	-55 ~ +155°C	50V	100V	-	1Ω - 9.76Ω		±200
	1/8W	C				10Ω - 1MΩ		±100	
CR-03 (0603)	1/4W	C		75V	150V	-	1Ω - 9.76Ω		±200
						10Ω - 1MΩ		±100	
CR-05 (0805)	1/3W	C		150V	300V	-	1Ω - 9.76Ω		±200
						10Ω - 1MΩ		±100	
CR-06 (1206)	1/2W	C		200V	400V	-	1Ω - 9.76Ω		±200
						10Ω - 1MΩ		±100	
CR-10 (1210)	1W	C		200V	400V	-	1Ω - 9.76Ω		±200
						10Ω - 1MΩ		±100	
CR-0A (2010)	1W	C		400V	800V	-	1Ω - 9.76Ω		±200
	*1.25W	U				10Ω - 1MΩ		±100	
	*2W	Q				10Ω - 1MΩ		±100	
CR-12 (2512)	2W	C		500V	1000V	-	1Ω - 9.76Ω		±200
						10Ω - 1MΩ		±100	
	*3W	U		250V	500V	-	1Ω - 9.76Ω		±200
						10Ω - 1MΩ		±100	

*: Ultra High Power

Operating Voltage= $\sqrt{P \cdot R}$ or Max. Operating Voltage listed above, whichever is lower.

Overload Voltage= $2.5 \cdot \sqrt{P \cdot R}$ or Max. Overload Voltage listed above, whichever is lower.

The power rating depends on the maximum temperature of the resistive element. Due to the power dissipation of the resistor, the temperature of the resistive element will rise depending on the condition of heat dissipation from PCB. The maximum power rating in application only applies if the temperature of the resistive element is not exceed 155 °C.

■ Viking is capable of manufacturing the optional spec based on customer's requirement.

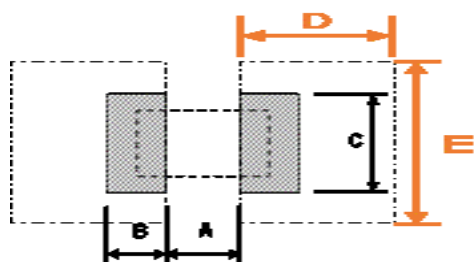
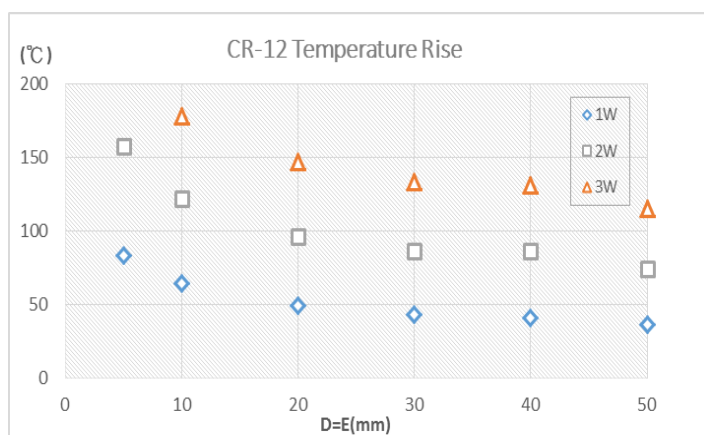
■Jumper(0Ω)

Type \ Item	Rated Current	Function Code	Resistance	Operating Temp. Range
			0Ω 5%	
CR-01 (0201)	1A	A	<50mΩ	-55 ~ +155°C
CR-02 (0402)	1A			
CR-03 (0603)	1A			
CR-05 (0805)	2A			
CR-06 (1206)	2A			
CR-10 (1210)	2.5A			
CR-0A (2010)	3.5A			
CR-12 (2512)	4A			

■High Current Jumper(0Ω)

Type \ Item	Rated Current	Function Code	Resistance	Operating Temp. Range
			0Ω 5%	
CR-02 (0402)	1.5A	C	<20mΩ	-55 ~ +155°C
CR-03 (0603)	2A			
CR-05 (0805)	2.5A			
CR-06 (1206)	3.5A			
CR-10 (1210)	5A			
CR-0A (2010)	6A			
CR-12 (2512)	7A			

■Temperature Rise



*FR4 copper board, 35μm of copper pad thickness.

■Environmental Characteristics

Item	Requirement			Test Method
	±1% and Below	±5%	Jumper	
Temperature Coefficient of Resistance (T.C.R.)	As Spec.			JIS-C-5201-1 4.8 IEC-60115-1 4.8 At 25°C/-55°C and 25°C/+125°C, 25°C is the reference temperature
Short Time Overload	±(1.0%+0.05Ω)	±(2.0%+0.05Ω)	<50mΩ	JIS-C-5201-1 4.13 IEC-60115-1 4.13 RCWV*2.5 or Max. Overload Voltage whichever is lower for 5 seconds Ultra High Power: RCWV*2 or Max. Overload Voltage whichever is lower for 5 seconds
Insulation Resistance	≥10G			JIS-C-5201-1 4.6 IEC-60115-1 4.6 Max. Overload Voltage for 1 minute
Operational Life	±(1.0%+0.10Ω)	±(2.0%+0.10Ω)	<100mΩ	MIL-STD-202 Method 108 Condition D Steady State TA=125°C at derated power. Measurement at 24±4 hours after test conclusion.
Biased Humidity	±(1.0%+0.10Ω)	±(2.0%+0.10Ω)	<100mΩ	MIL-STD-202 Method 103 1000 hrs 85°C/85%RH 10% of operating power (≤100V)
High Temperature Exposure	±(1.0%+0.05Ω)	±(1.5%+0.10Ω)	<50mΩ	MIL-STD-202 Method 108 at +155°C for 1000 hrs
Board Flex	±(0.25%+0.05Ω)	±(1.0%+0.05Ω)	<50mΩ	AEC-Q200-005 Bending once for 60 seconds 2010, 2512 sizes: 2mm Other sizes: 3mm
Solderability	95% min. coverage			JIS-C-5201-1 4.17 IEC-60115-1 4.17 J-STD-002 245±5°C for 3 seconds
Resistance to Soldering Heat	±(0.25%+0.05Ω)	±(1.0%+0.05Ω)	<50mΩ	MIL-STD-202 Method 210 260±5°C for 10 seconds
Voltage Proof	No breakdown or flashover			JIS-C-5201-1 4.7 IEC-60115-1 4.7 1.42 times Max. Operating Voltage for 1 minute
Leaching	Individual leaching area ≤5% Total leaching area ≤10%			JIS-C-5201-1 4.18 IEC-60068-2-58 8.2.1 260±5°C for 30 seconds
Temperature Cycling	±(0.5%+0.05Ω)	±(1.5%+0.05Ω)	<50mΩ	JESD22 Method JA-104 -55°C to +125°C, 1000 cycles
Mechanical Shock	±(0.25%+0.05Ω)	±(1.0%+0.05Ω)	<50mΩ	MIL-STD-202 Method 213 Wave Form: Tolerance for half sine shock pulse. Peak value is 100g's. Normal duration (D) is 6.

Item	Requirement			Test Method
	±1% and Below	±5%	Jumper	
Vibration	±(0.5%+0.05Ω)	±(1.0%+0.05Ω)	<50mΩ	MIL-STD-202 Method 204 5 g's for 20 min., 12 cycles each of 3 orientations, 10-2000 Hz
ESD	±(3%+0.05Ω)			AEC-Q200-002 Human body model 0201: 0.5KV 0402/0603: 1KV 0805 and above: 2KV
	±(1%+0.05Ω)			IEC61340-3-1(Equivalent to MIL-STD-883) 3 positive + 3 negative discharges ESD voltage acc. to size
Resistance to Solvents	No visible damage on appearance and marking.			MIL-STD-202 Method 215 Add Aqueous wash chemical - OKEM Clean or equivalent. Do not use banned solvents.
Terminal Strength	No broken			AEC-Q200-006 Force of 1.8kg for 60 seconds.
Flammability	No ignition of the tissue paper or scorching or the pinewood board			UL-94 V-0 or V-1 are acceptable. Electrical test not required.
Sulfur Test	△R±1%		<50mΩ	EIA-977 (Condition A) 60±2°C, no power rating for 500 hrs.

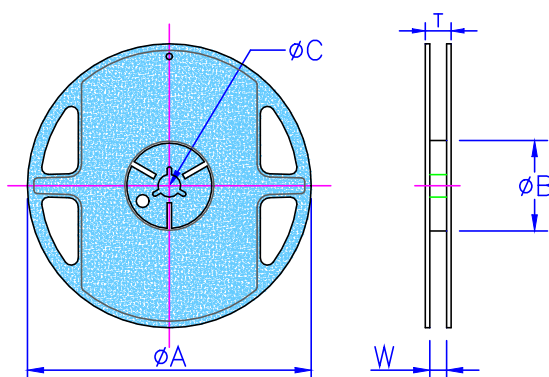
RCWV(Rated Continuous Working Voltage)= $\sqrt{P \cdot R}$ or Max. Operating Voltage whichever is lower.

■ **Storage Temperature: 15~28°C; Humidity < 80%RH**

■ **Shelf Life: 2 years from production date.**

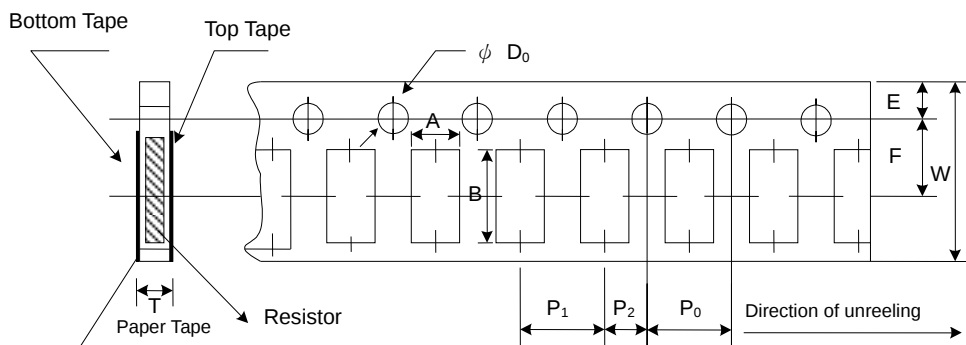
■Packaging

Reel Specifications & Packaging Quantity



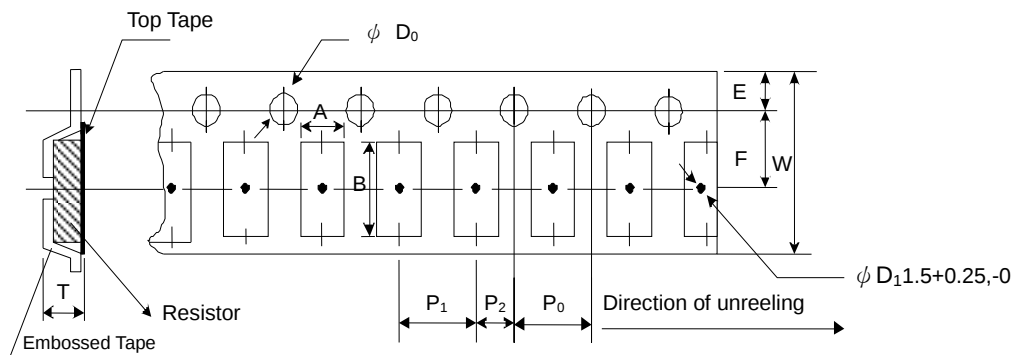
Type	Packaging Quantity		Tape Width	Reel Diameter	ΦA (mm)	ΦB (mm)	ΦC (mm)	W (mm)	T (mm)
CR-01 CR-02	Paper	10K	8mm	7 inch	178.5±1.5	60 ^{+1/-0}	13.0±0.2	9.0±0.5	12.5±0.5
		20K	8mm	10 inch	254±1.0	100±0.5	13.0±0.2	9.5±0.5	13.5±0.5
		40K	8mm	13 inch	330±1.0	100±0.5	13.0±0.2	9.5±0.5	13.5±0.5
CR-03 CR-05 CR-06 CR-10	Paper	5K	8mm	7 inch	178.5±1.5	60 ^{+1/-0}	13.0±0.2	9.0±0.5	12.5±0.5
		10K	8mm	10 inch	254±1.0	100±0.5	13.0±0.2	9.5±0.5	13.5±0.5
		20K	8mm	13 inch	330±1.0	100±0.5	13.0±0.2	9.5±0.5	13.5±0.5
CR-0A CR-12	Embossed	4K	12mm	7 inch	178.5±1.5	60 ^{+1/-0}	13.0±0.5	13.0±0.5	15.5±0.5
		8K	12mm	10 inch	250±1.0	62±0.5	13.0±0.5	12.5±0.5	16.5±0.5
CR-0A(2W) CR-12(3W)	Embossed	2K	12mm	7 inch	178.5±1.5	60 ^{+1/-0}	13.0±0.5	13.0±0.5	15.5±0.5

Paper Tape Specifications



Type	A (mm)	B (mm)	W (mm)	E (mm)	F (mm)	P ₀ (mm)	P ₁ (mm)	P ₂ (mm)	ΦD ₀ (mm)	T (mm)
CR-01	0.38±0.05	0.68±0.05	8.0±0.20	1.75±0.10	3.50±0.05	4.00±0.10	2.00±0.05	2.00±0.05	1.50+0.1,-0	0.42±0.20
CR-02	0.65±0.10	1.15±0.10	8.0±0.20	1.75±0.10	3.50±0.05	4.00±0.10	2.00±0.05	2.00±0.05	1.50+0.1,-0	0.45±0.10
CR-03	1.10±0.10	1.90±0.10	8.0±0.20	1.75±0.10	3.50±0.05	4.00±0.10	4.00±0.05	2.00±0.05	1.50+0.1,-0	0.70±0.10
CR-05	1.60±0.10	2.40±0.20	8.0±0.20	1.75±0.10	3.50±0.05	4.00±0.10	4.00±0.05	2.00±0.05	1.50+0.1,-0	0.85±0.10
CR-06	1.90±0.10	3.50±0.20	8.0±0.20	1.75±0.10	3.50±0.05	4.00±0.10	4.00±0.05	2.00±0.05	1.50+0.1,-0	0.85±0.10
CR-10	2.90±0.10	3.50±0.20	8.0±0.20	1.75±0.10	3.50±0.05	4.00±0.10	4.00±0.05	2.00±0.05	1.50+0.1,-0	0.85±0.10

Embossed Plastic Tape Specifications



Type	A (mm)	B (mm)	W (mm)	E (mm)	F (mm)	P ₀ (mm)	P ₁ (mm)	P ₂ (mm)	ΦD ₀ (mm)	T (mm)
CR-0A	2.8±0.10	5.40±0.20	12.0±0.30	1.75±0.10	5.5±0.05	4.00±0.10	4.00±0.10	2.00±0.05	1.50+0.1, -0	1.2 ⁺⁰
CR-0A(2W)	2.85±0.10	5.55±0.10	12.0±0.30	1.75±0.10	5.5±0.05	4.00±0.10	4.00±0.10	2.00±0.05	1.50+0.1, -0	1.45±0.20
CR-12	3.5±0.10	6.7±0.10	12.0±0.30	1.75±0.10	5.5±0.05	4.00±0.10	4.00±0.10	2.00±0.05	1.50+0.1, -0	1.2 ⁺⁰
CR-12(3W)	3.40±0.10	6.70±0.10	12.0±0.30	1.75±0.10	5.5±0.05	4.00±0.10	4.00±0.10	2.00±0.05	1.55±0.05	1.45±0.20

■ Marking

No Marking for 0201/0402

Jumper for all: Letter "0"

0.5%,1% for 0805/0612/1206/1210/2010/2512: 4 digits marking

Example:

Resistance	100Ω	2.2KΩ	10KΩ	49.9KΩ	100KΩ
Marking	1000	2201	1002	4992	1003

5% for 0603/0805/0612/1206/1210/2010/2512: 3 digits marking in E24

Example: 101=100Ω 102=1KΩ (1st and 2nd are E24 code and 3rd code is multiplier)

E24 code	10	11	12	13	15	16	18	20	22	24	27	30	33	36	39	43	47	51	56	62	68	75	82	91
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0.5%,1% for 0603(E24): 3 digits marking in E24, When the E24 and E96 are the same resistance, this marking in E96

Example: 01A= 100Ω 05C=11KΩ 123=12KΩ 273=27KΩ

0.5%,1% for 0603(E96): 3 digits marking in E96



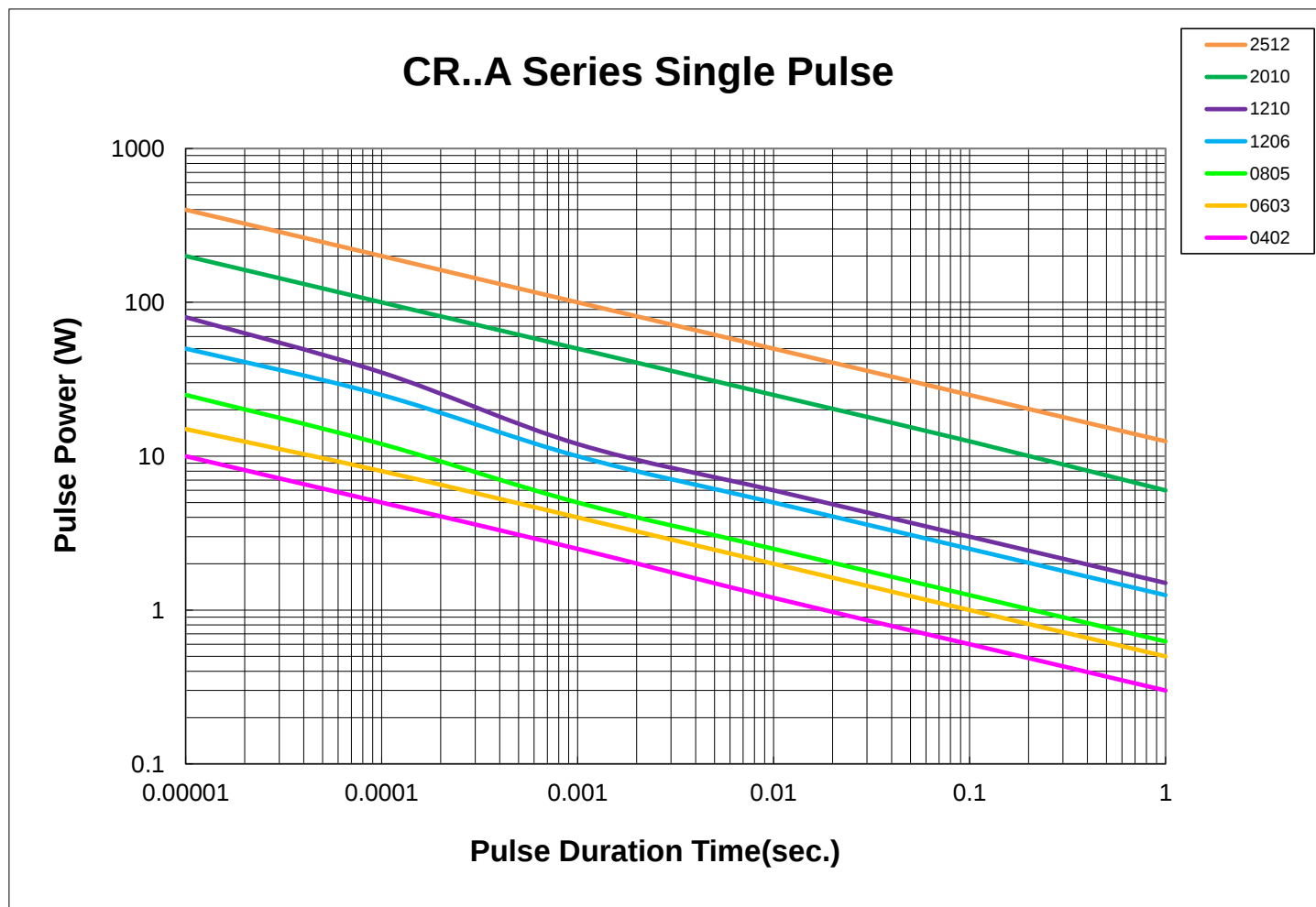
3 digits marking for Example: 14C=13K7Ω 13C=13K3Ω
68B=4K99Ω 68X=49.9Ω

Marking Table

Code	E96		Code	E96		Code	E96		Code	E96	
01	100		25	178		49	316		73	562	
02	102		26	182		50	324		74	576	
03	105		27	187		51	332		75	590	
04	107		28	191		52	340		76	604	
05	110		29	196		53	348		77	619	
06	113		30	200		54	357		78	634	
07	115		31	205		55	365		79	649	
08	118		32	210		56	374		80	665	
09	121		33	215		57	383		81	681	
10	124		34	221		58	392		82	698	
11	127		35	226		59	402		83	715	
12	130		36	232		60	412		84	732	
13	133		37	237		61	422		85	750	
14	137		38	243		62	432		86	768	
15	140		39	249		63	442		87	787	
16	143		40	255		64	453		88	806	
17	147		41	261		65	464		89	825	
18	150		42	267		66	475		90	845	
19	154		43	274		67	487		91	866	
20	158		44	280		68	499		92	887	
21	162		45	287		69	511		93	909	
22	165		46	294		70	523		94	931	
23	169		47	301		71	536		95	953	
24	174		48	309		72	549		96	976	
Code	A	B	C	D	E	F	G	X	Y		
Multiplier	10 ⁰	10 ¹	10 ²	10 ³	10 ⁴	10 ⁵	10 ⁶	10 ⁻¹	10 ⁻²		

■ Pulse withstanding capacity

The limit of acceptance was a shift in resistance of less than 1% from the initial value. The power applied was subject to the restrictions of the maximum permissible impulse voltage.



Note: The limit of the applicable voltage is the max. overload voltage. Please consult us about the resistance characteristic when pulse is applied continuously. This data is a reference value, please be sure to test the products on the actual circuit before you use them.

REVISION HISTORY

REVISION	DATE	CHANGE NOTIFICATION	DESCRIPTION
Version A5	Apr 30, 2015	-	- Environmental Characteristics updated
Version A6	Jun 18, 2015	-	- Increased 0603(E24) 1% marking description
Version A7	Jul 15, 2016	-	- Remove Material Description - Size CR-01 specifications added - Modify Storage Temperature - Increased 0.5% Resistance Range - Increased High Power Rating Electrical Specifications
Version A8	Jan 12, 2018	-	- Environmental Characteristics updated - Modify Electrical Specifications (0R) - Modify 2512 Land Pattern
Version A9	May 20, 2019	-	- Modify TCR Test description - Features added 100% CCD inspection - Added Sulfur Test
Version B	Jun 1, 2019	-	- Modify ESD Test description & Spec.
Version B1	Oct 21, 2019	-	- increase 2512 2W Specifications - increase Special standard packaging specifications (disc 10" & 13")
Version B2	Jan 31, 2020	-	- Features added Anti-sulfur characteristics
Version B3	May 22, 2020	-	- Added Temperature Rise - Modify High Power Rating Electrical Specifications (added 0.5%)
Version B4	Sep 25, 2020	-	- increase 0612 Specifications
Version B5	Mar 10, 2021	-	- Delete 0612 size Specifications - Modify 2010 Embossed Plastic Tape B Specification - Modify Soldering Condition (IPC/JEDEC J-STD-020)
Version B6	Nov 15, 2021	-	- Increase the shelf life description
Version B7	Jan 26, 2022	-	- 0201 Operating temperature rises to 155℃
Version B8	Feb 15, 2022	-	- Derating Curve changes the temperature range
Version B9	Jun 15, 2022	-	- Modify Soldering Condition
Version C	Jul 13, 2023	-	- Increase 0402 0.1W - Increase 2010/2512 Specifications - Environmental Characteristics updated
Version C1	Aug 1, 2023	-	- Increase 1210 1W - Increase 2010 1.25W
Version C2	Dec 4, 2023	-	- Add High Current Jumper

REVISION HISTORY

REVISION	DATE	CHANGE NOTIFICATION	DESCRIPTION
Version C3	Mar 13, 2024	-	- Increase 2010/2512 Specifications
Version C4	Jul 08, 2024	-	- Modify the descriptions in the Features
Version C5	Jul 18, 2024	-	- Add 2512 3W Specifications
Version C6	Jun 09, 2025	-	- Modify the descriptions in the Features - Add 2010 2W Specifications - Modify 0402 Dimensions