



Features

- Thick film technology
- Power rating up to 1 watt @ 70 °C
- RoHS compliant*
- Halogen free**
- Sulfur-resistant design (ASTM B-809)
- AEC-Q200 compliant

CRxxxxA-AS - Sulfur-Resistant, AEC-Q200 Compliant Chip Resistors

Electrical Characteristics

Characteristic	Model No.			
	CR0201A-AS	CR0402A-AS	CR0603A-AS	CR0805A-AS
Power Rating @ 70 °C	0.05 W	0.063 W	0.1 W	0.125 W
Operating Temp. Range	-55 to +125 °C		-55 to +155 °C	
Derated to Zero Load at	+125 °C		+155 °C	
Maximum Working Voltage (1)	25 V	50 V	50 V	150 V
Maximum Overload Voltage	50 V	100 V	100 V	300 V
Resistance Tolerance	±1 %, ±5 %			
Temperature Coefficient @ 1 % (E24 + E96)	1 Ω ~ 9.76 Ω -200 ~ +600 ppm/°C 10 Ω ~ 3M Ω +200 ppm/°C	1 Ω ~ 9.76 Ω -200 ~ +500 ppm/°C 100 Ω ≤ R ≤ 1M Ω ±100 ppm/°C 10 Ω ≤ R < 100 Ω 1M Ω < R ≤ 10M Ω ±200 ppm/°C	1 Ω ~ 9.76 Ω ±400 ppm/°C 10 Ω ≤ R ≤ 1M Ω ±100 ppm/°C 1M Ω < R ≤ 10M Ω ±200 ppm/°C	1 Ω ~ 9.76 Ω ±400 ppm/°C 10 Ω ≤ R ≤ 1M Ω ±100 ppm/°C 1M Ω < R ≤ 10M Ω ±200 ppm/°C
Temperature Coefficient @ 5 % (E24)	1 Ω ~ 9.1 Ω -200 ~ +600 ppm/°C 10 Ω ~ 10M Ω +200 ppm/°C	1 Ω ~ 9.1 Ω -200 ~ +500 ppm/°C 10 Ω ≤ R ≤ 10M Ω ±200 ppm/°C 10M Ω ≤ R ≤ 20M Ω ±400 ppm/°C	1 Ω ~ 9.1 Ω 10M < R ≤ 20M Ω ±400 ppm/°C 10 Ω ≤ R ≤ 10M Ω ±200 ppm/°C	1 Ω ~ 9.1 Ω 10M < R ≤ 20M Ω ±400 ppm/°C 10 Ω ≤ R ≤ 10M Ω ±200 ppm/°C
Zero Ohm Jumper ≤ 0.05 Ω Rated / Max. Current	0.5 A / 1 A	1 A / 2.5 A	1 A / 2.5 A	2 A / 5 A

(1) Maximum Working Voltage is calculated with formula $V = \sqrt{P \cdot R}$ with the maximum value from the Electrical Characteristics table.

Environmental Characteristics

Moisture Sensitivity Level..... 1
ESD Classification (HBM)..... 1A



WARNING Cancer and Reproductive Harm - www.P65Warnings.ca.gov

* RoHS Directive 2002/95/EC Jan. 27, 2003 including annex and RoHS Recast 2011/65/EU June 8, 2011.

** Bourns considers a product to be "halogen free" if (a) the Bromine (Br) content is 900 ppm or less; (b) the Chlorine (Cl) content is 900 ppm or less; and (c) the total Bromine (Br) and Chlorine (Cl) content is 1500 ppm or less.

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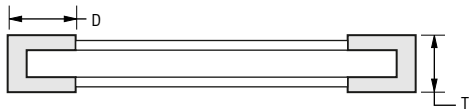
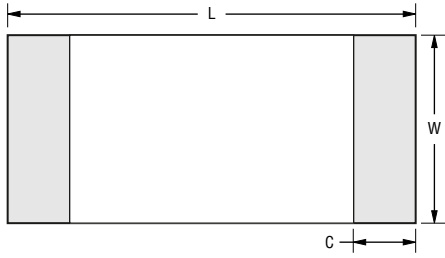
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Electrical Characteristics (continued)

Characteristic	Model No.			
	CR1206A-AS	CR1210A-AS	CR2010A-AS	CR2512A-AS
Power Rating @ 70 °C	0.25 W	0.33 W	0.5 W	1 W
Operating Temp. Range	-55 to +155 °C			
Derated to Zero Load at	+155 °C			
Maximum Working Voltage ⁽¹⁾	200 V			
Maximum Overload Voltage	400 V			
Resistance Tolerance	±1 %, ±5 %			
Temperature Coefficient @ 1 % (E24 + E96)	1 Ω ~ 9.76 Ω ±400 ppm/°C			
	10 Ω ≤ R ≤ 1M Ω ±100 ppm/°C			
	1M Ω < R ≤ 10M Ω ±200 ppm/°C			
Temperature Coefficient @ 5 % (E24)	1 Ω ~ 9.1 Ω 10M < R ≤ 20M Ω ±400 ppm/°C			
	10 Ω ≤ R ≤ 10M Ω ±200 ppm/°C			
Zero Ohm Jumper ≤ 0.05 Ω Rated / Max. Current	2 A / 5 A			

⁽¹⁾ Maximum Working Voltage is calculated with formula $V = \sqrt{P \cdot R}$ with the maximum value from the Electrical Characteristics table.

Product Dimensions

DIMENSIONS: $\frac{\text{MM}}{\text{(INCHES)}}$

Model	L	W	C	D	T
CR0201A-AS	$\frac{0.60 \pm 0.03}{(.024 \pm .001)}$	$\frac{0.30 \pm 0.03}{(.012 \pm .001)}$	$\frac{0.10 \pm 0.05}{(.004 \pm .002)}$	$\frac{0.15 \pm 0.05}{(.006 \pm .002)}$	$\frac{0.23 \pm 0.03}{(.009 \pm .001)}$
CR0402A-AS	$\frac{1.00 \pm 0.10}{(.039 \pm .004)}$	$\frac{0.50 \pm 0.05}{(.020 \pm .002)}$	$\frac{0.20 \pm 0.10}{(.008 \pm .004)}$	$\frac{0.25 \pm 0.10}{(.010 \pm .004)}$	$\frac{0.32 \pm 0.05}{(.013 \pm .002)}$
CR0603A-AS	$\frac{1.60 \pm 0.10}{(.063 \pm .004)}$	$\frac{0.80 \pm 0.10}{(.031 \pm .004)}$	$\frac{0.30 \pm 0.20}{(.012 \pm .008)}$	$\frac{0.30 \pm 0.20}{(.012 \pm .008)}$	$\frac{0.45 \pm 0.10}{(.018 \pm .004)}$
CR0805A-AS	$\frac{2.00 \pm 0.10}{(.079 \pm .004)}$	$\frac{1.25 \pm 0.10}{(.049 \pm .004)}$	$\frac{0.40 \pm 0.20}{(.016 \pm .008)}$	$\frac{0.40 \pm 0.20}{(.016 \pm .008)}$	$\frac{0.50 \pm 0.10}{(.020 \pm .004)}$
CR1206A-AS	$\frac{3.10 \pm 0.10}{(.122 \pm .004)}$	$\frac{1.55 \pm 0.10}{(.061 \pm .004)}$	$\frac{0.50 \pm 0.30}{(.020 \pm .012)}$	$\frac{0.40 \pm 0.20}{(.016 \pm .008)}$	$\frac{0.55 \pm 0.10}{(.022 \pm .004)}$
CR1210A-AS	$\frac{3.10 \pm 0.10}{(.122 \pm .004)}$	$\frac{2.55 \pm 0.10}{(.100 \pm .004)}$	$\frac{0.50 \pm 0.30}{(.020 \pm .012)}$	$\frac{0.40 \pm 0.20}{(.016 \pm .008)}$	$\frac{0.60 \pm 0.10}{(.024 \pm .004)}$
CR2010A-AS	$\frac{5.00 \pm 0.15}{(.197 \pm .006)}$	$\frac{2.50 \pm 0.15}{(.098 \pm .006)}$	$\frac{0.60 \pm 0.30}{(.024 \pm .012)}$	$\frac{0.50 \pm 0.25}{(.020 \pm .010)}$	$\frac{0.60 \pm 0.10}{(.024 \pm .004)}$
CR2512A-AS	$\frac{6.30 \pm 0.20}{(.248 \pm .008)}$	$\frac{3.20 \pm 0.20}{(.126 \pm .008)}$	$\frac{0.60 \pm 0.30}{(.024 \pm .012)}$	$\frac{0.50 \pm 0.25}{(.020 \pm .010)}$	$\frac{0.60 \pm 0.10}{(.024 \pm .004)}$

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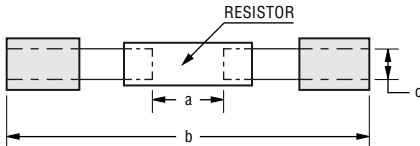
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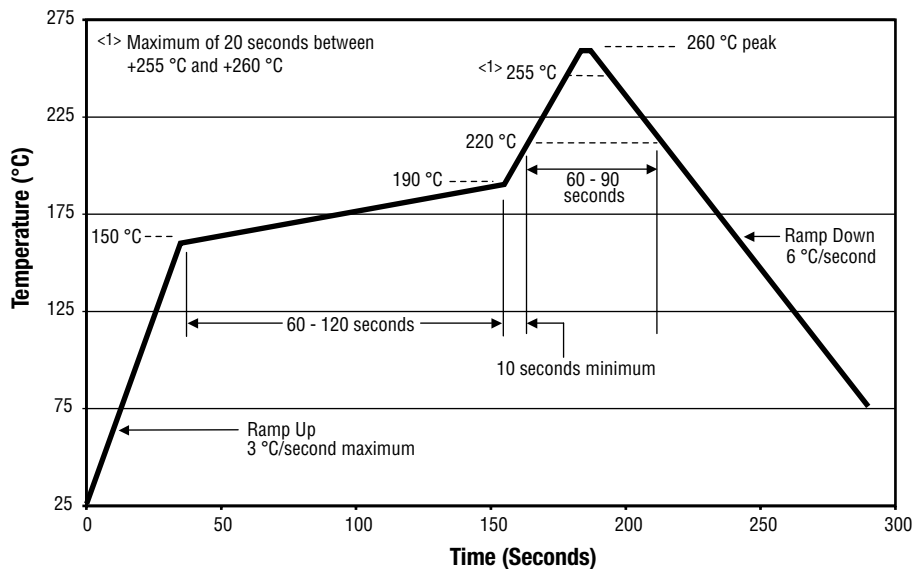
Recommended Pad Layout



DIMENSIONS: $\frac{\text{MM}}{\text{(INCHES)}}$

Model	a	b	c
CR0201A-AS	$\frac{0.25 \sim 0.30}{(.010 \sim .012)}$	$\frac{0.70 \sim 0.90}{(.028 \sim .035)}$	$\frac{0.30 \sim 0.40}{(.012 \sim .016)}$
CR0402A-AS	$\frac{0.50 \sim 0.60}{(.020 \sim .024)}$	$\frac{1.40 \sim 1.60}{(.055 \sim .063)}$	$\frac{0.40 \sim 0.60}{(.012 \sim .024)}$
CR0603A-AS	$\frac{0.70 \sim 0.90}{(.028 \sim .035)}$	$\frac{2.00 \sim 2.20}{(.079 \sim .087)}$	$\frac{0.80 \sim 1.00}{(.031 \sim .039)}$
CR0805A-AS	$\frac{1.00 \sim 1.40}{(.039 \sim .055)}$	$\frac{3.20 \sim 3.80}{(.126 \sim .150)}$	$\frac{0.90 \sim 1.40}{(.035 \sim .055)}$
CR1206A-AS	$\frac{2.00 \sim 2.40}{(.079 \sim .094)}$	$\frac{4.40 \sim 5.00}{(.173 \sim .197)}$	$\frac{1.20 \sim 1.80}{(.047 \sim .071)}$
CR1210A-AS	$\frac{2.00 \sim 2.40}{(.079 \sim .094)}$	$\frac{4.50 \sim 5.00}{(.177 \sim .197)}$	$\frac{2.30 \sim 3.50}{(.091 \sim .138)}$
CR2010A-AS	$\frac{3.30 \sim 3.70}{(.130 \sim .146)}$	$\frac{5.70 \sim 6.50}{(.224 \pm .256)}$	$\frac{2.30 \sim 3.50}{(.091 \sim .138)}$
CR2512A-AS	$\frac{3.60 \sim 4.00}{(.142 \sim .157)}$	$\frac{7.60 \sim 8.60}{(.299 \sim .339)}$	$\frac{2.30 \sim 3.50}{(.091 \sim .138)}$

Soldering Profile



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Performance Characteristics (AEC-Q200)

Test	Method	Procedure	Test Limits ΔR
Short Time Overload	IEC 60115-1 4.13	2.5 X rated voltage for 5 sec.	$\pm (1 \% + 0.05 \Omega)$ Remarks: 0201: $\pm (3 \% + 0.1 \Omega)$ 0402: $\pm (2 \% + 0.1 \Omega)$ 0 Ω : 50 m Ω or less
High Temperature Exposure (Storage)	AEC-Q200-REV D-Test 3 MIL-STD-202 Method 108	1000 hrs. @ T=155 °C. Unpowered. Measurement at 24 \pm 2 hours after test conclusion.	1 %: $\pm (1.0 \% + 0.05 \Omega)$ 5 %: $\pm (2.0 \% + 0.1 \Omega)$ 0201: $\pm (3 \% + 0.1 \Omega)$ 0 Ω : 50 m Ω or less
Temperature Cycling	AEC-Q200-REV D-Test 4 JESD22 Method JA-104	1000 cycles (-55 °C to +125 °C) Measurement at 24 \pm 4 hours after test conclusion. 30 min. maximum dwell time at each temperature extreme. 1 min. maximum transition time.	$\pm (1.0 \% + 0.1 \Omega)$ 0201: $\pm (2 \% + 0.1 \Omega)$ 0 Ω : 50 m Ω or less
Moisture Resistance	AEC-Q200-REV D-Test 6 MIL-STD-202 Method 106	T=24 hours / Cycle, 10 Cycles. Notes: Steps 7a & 7b not required. Unpowered.	1 %: $\pm (1.0 \% + 0.05 \Omega)$ 2 %, 5 %: $\pm (2.0 \% + 0.1 \Omega)$ 0201: $\pm (3 \% + 0.1 \Omega)$ 0 Ω : 50 m Ω or less
Biased Humidity	AEC-Q200-REV D-Test 7 MIL-STD-202 Method 103	1000 hours 85 °C / 85 % RH. Note: Specified conditions: 10 % of operating power (not exceeding max. working voltage). Measurement at 24 \pm 2 hours after test conclusion.	$\pm (3 \% + 0.1 \Omega)$ 0201: $\pm (5 \% + 0.1 \Omega)$ 0 Ω : 100 m Ω or less
Operational Life	AEC-Q200-REV D-Test 8 MIL-STD-202 Method 108	1000 hours T _A =125 °C at 35 % rated power. Measurement at 24 \pm 4 hours after test conclusion.	1 %: $\pm (1 \% + 0.1 \Omega)$ 5 %: $\pm (3 \% + 0.1 \Omega)$ 0201: $\pm (5 \% + 0.1 \Omega)$ 0 Ω : 100 m Ω or less
External Visual	AEC-Q200-REV D-Test 9 MIL-STD-883 Method 2009	Electrical test not required. Inspect device construction, marking and workmanship.	
Physical Dimension	AEC-Q200-REV D-Test 10 JESD22 Method JB-100	Verify physical dimensions to the applicable device detail spec. Note: User(s) and Suppliers spec. Electrical test not required.	
Resistance to Solvents	AEC-Q200-REV D-Test 12 MIL-STD-202 Method 215	a: Isopropyl Alcohol : Mineral Spirits = 1:3 b: Terpene Defluxer (Bioact EC-7R) c: Deionized water : Propylene Glycol Monomethyl Ether : monoethanolamine = 42:1:1	Marking and protective layer cannot be detached
Mechanical Shock	AEC-Q200-REV D-Test 13 MIL-STD-202 Method 213	Wave Form: Tolerance for half sine shock pulse. Peak value is 100 grams. Normal duration (D) is 6 ms.	$\pm (1 \% + 0.1 \Omega)$ 0 Ω : 50 m Ω or less
Vibration	AEC-Q200-REV D-Test 14 MIL-STD-202 Method 204	5 grams for 20 min., 12 cycles each of 3 orientations. Note: Test from 10-2000 Hz.	$\pm (1 \% + 0.1 \Omega)$ 0 Ω : 50 m Ω or less
Resistance to Soldering Heat	AEC-Q200-REV D-Test 15 MIL-STD-202 Method 210	Condition B: Immerse the specimens in and eutectic solder at 260 \pm 5 °C for 10 \pm 1 S.	1 %: $\pm (0.5 \% + 0.05 \Omega)$ 5 %: $\pm (1 \% + 0.1 \Omega)$ 0201: $\pm (2 \% + 0.1 \Omega)$ 0 Ω : 50 m Ω or less
Thermal Shock	AEC-Q200-REV D-Test 16 MIL-STD-202 Method 107	-55 °C / +155 °C. Note: Number of cycles required: 1000, Maximum transfer time: 20 seconds, Dwell time: 15 minutes. Air to Air.	$\pm (1 \% + 0.1 \Omega)$ 0201: $\pm (2 \% + 0.1 \Omega)$ 0 Ω : 50 m Ω or less
ESD	AEC-Q200-REV D-Test 17	Verify the voltage setting at 500 V	$\pm (1 \% + 0.1 \Omega)$ 0201: $\pm (2 \% + 0.1 \Omega)$
Solderability	AEC-Q200-REV D-Test 18 J-STD-002	Method B, aging 4 hours at 155 °C dry heat Lead-free solder bath at 235 \pm 3 °C Dipping time: 3 \pm 0.5 seconds	> 95 % area covered with tin
Flammability	AEC-Q200-REV D-Test 17 UL-94	V-0 or V-1 are acceptable. Electrical test not required.	V-0 or V-1
Board Flex (Bending)	AEC-Q200-REV D-Test 21	The duration of the applied forces shall be 60 (\pm 5) seconds. 3 mm deflection (0201~1210) 2 mm deflection (2010~2512)	1 %: $\pm (0.5 \% + 0.05 \Omega)$ 5 %: $\pm (1 \% + 0.1 \Omega)$ 0201: $\pm (1 \% + 0.1 \Omega)$ 0 Ω : 50 m Ω or less
Terminal Strength (SMD)	IEC 60115-1 4.32	Force of 1.8 kg for 60 seconds. Note: 0201= N/A	$\pm (0.5 \% + 0.05 \Omega)$ 0 Ω : 50 m Ω or less
Sulfuration Test	ASTM-B-809-95	Sulfur (saturated vapor) 1,000 hours, 105 \pm 2 °C, unpowered	1 %: $\pm (1 \% + 0.05 \Omega)$ 5 %: $\pm (2 \% + 0.05 \Omega)$ 0201: 1 %: $\pm (2 \% + 0.05 \Omega)$ 5 %: $\pm (3 \% + 0.05 \Omega)$ 0 Ω : 100 m Ω or less

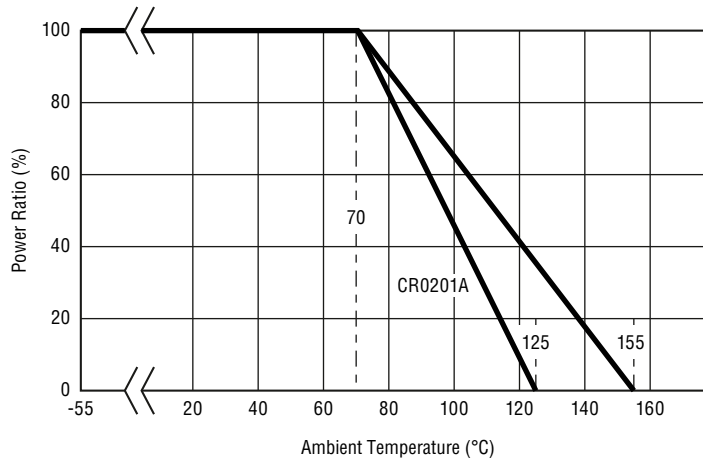
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Derating Curve



Packaging Dimensions (Conforms to EIA RS-481A)

Model	Tape Type	A	B	W	F	E	P1	P2	P0	T	
CR0201A-AS	Paper Tape (2 mm pitch)	$\frac{0.37 \pm 0.05}{(.010 \pm .002)}$	$\frac{0.67 \pm 0.10}{(.026 \pm .004)}$				$\frac{2.00 \pm 0.10}{(.079 \pm .004)}$	$\frac{2.00 \pm 0.05}{(.079 \pm .002)}$		$\frac{0.37 \pm 0.10}{(.015 \pm .004)}$	
CR0402A-AS		$\frac{0.70 \pm 0.05}{(.028 \pm .002)}$	$\frac{1.20 \pm 0.05}{(.047 \pm .002)}$				$\frac{2.00 \pm 0.10}{(.079 \pm .004)}$	$\frac{2.00 \pm 0.10}{(.079 \pm .004)}$		$\frac{0.45 \pm 0.10}{(.018 \pm .004)}$	
CR0603A-AS	Paper Tape (4 mm pitch)	$\frac{1.10 \pm 0.10}{(.043 \pm .004)}$	$\frac{1.90 \pm 0.10}{(.075 \pm .004)}$	$\frac{8.00 \pm 0.20}{(.315 \pm .008)}$	$\frac{3.50 \pm 0.05}{(.138 \pm .002)}$	$\frac{1.75 \pm 0.10}{(.069 \pm .004)}$	$\frac{4.00 \pm 0.10}{(.157 \pm .004)}$	$\frac{2.00 \pm 0.05}{(.079 \pm .002)}$	$\frac{4.00 \pm 0.10}{(.157 \pm .004)}$	$\frac{0.64 \pm 0.10}{(.025 \pm .004)}$	
CR0805A-AS		$\frac{1.65 \pm 0.15}{(.065 \pm .006)}$	$\frac{2.40 \pm 0.20}{(.094 \pm .008)}$							$\frac{4.00 \pm 0.10}{(.157 \pm .004)}$	$\frac{0.84 \pm 0.10}{(.033 \pm .004)}$
CR1206A-AS		$\frac{2.00 \pm 0.15}{(.079 \pm .006)}$	$\frac{3.60 \pm 0.20}{(.142 \pm .008)}$							$\frac{4.00 \pm 0.10}{(.157 \pm .004)}$	$\frac{0.84 \pm 0.10}{(.033 \pm .004)}$
CR1210A-AS		$\frac{2.80 \pm 0.20}{(.110 \pm .008)}$	$\frac{3.60 \pm 0.20}{(.142 \pm .008)}$							$\frac{4.00 \pm 0.10}{(.157 \pm .004)}$	$\frac{0.84 \pm 0.10}{(.033 \pm .004)}$
CR2010A-AS		Embossed Tape (4 mm pitch)	$\frac{2.80 \pm 0.20}{(.110 \pm .008)}$							$\frac{5.30 \pm 0.20}{(.209 \pm .008)}$	$\frac{12.00 \pm 0.20}{(.472 \pm .008)}$
CR2512A-AS	$\frac{3.60 \pm 0.20}{(.142 \pm .008)}$		$\frac{6.90 \pm 0.20}{(.272 \pm .008)}$	$\frac{0.85 \pm 0.15}{(.033 \pm .006)}$							

DIMENSIONS: $\frac{\text{MM}}{\text{(INCHES)}}$

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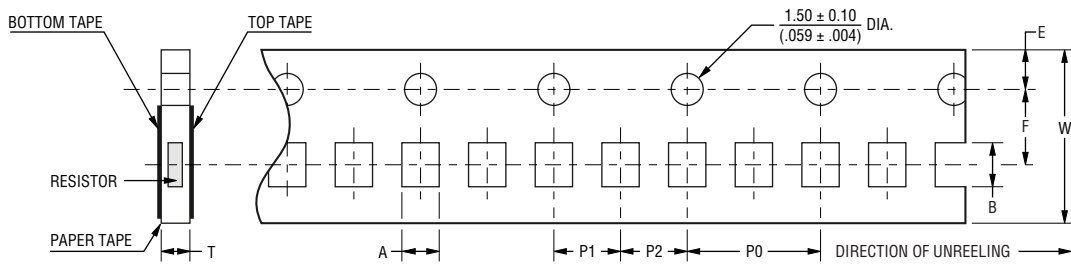
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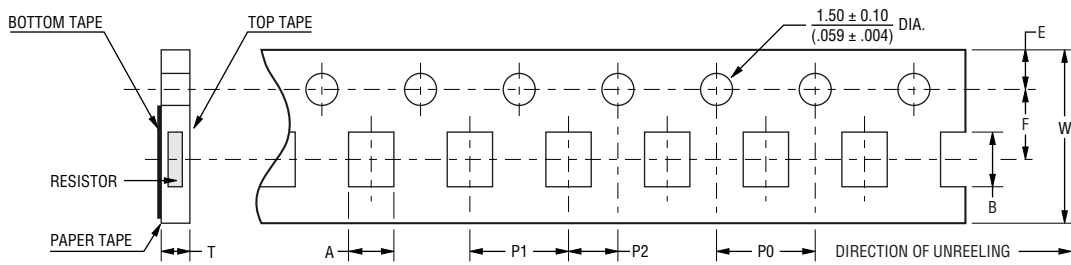


Packaging Dimensions (Conforms to EIA RS-481A)

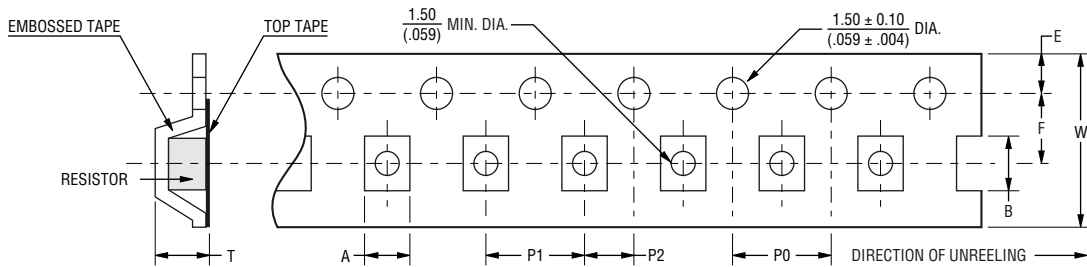
PAPER TAPE (2 mm PITCH)



PAPER TAPE (4 mm PITCH)



EMBOSSED TAPE (4 mm PITCH)



DIMENSIONS: $\frac{\text{MM}}{\text{(INCHES)}}$

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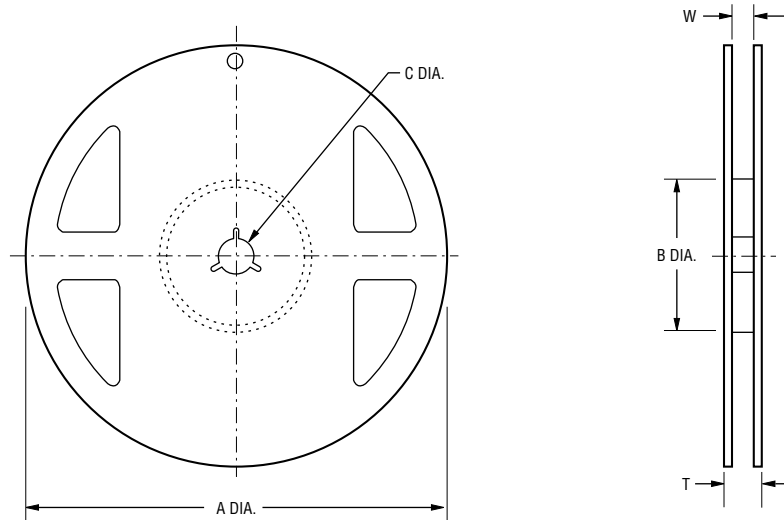
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Packaging Dimensions (Conforms to EIA RS-481A)



Model	Packaging Quantity	A	B	C	W	T
CR0201A-AS	10K pcs/reel					
CR0402A-AS						
CR0603A-AS	5K pcs/reel	$\frac{178 \pm 2.0}{(7.008 \pm .079)}$	$\frac{60 \pm 1.0}{(2.362 \pm .039)}$	$\frac{13.0 \pm 1.0}{(.512 \pm .039)}$	$\frac{9.0 \pm 1.0}{(.354 \pm .039)}$	$\frac{11.5 \pm 1.0}{(.453 \pm .039)}$
CR0805A-AS						
CR1206A-AS						
CR1210A-AS						
CR2010A-AS	4K pcs/reel	$\frac{178 \pm 2.0}{(7.008 \pm .079)}$	$\frac{60 \pm 0.5}{(2.362 \pm .020)}$	$\frac{13.0 \pm 0.5}{(.512 \pm .020)}$	$\frac{13.0 \pm 1.0}{(.512 \pm .039)}$	$\frac{15.5 \pm 1.0}{(.610 \pm .039)}$
CR2512A-AS						

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How to Order

CR 0603 A F X - 1002 E AS

Model

(CR = Fixed Resistor)

Size

- 0201 = 0201 size
- 0402 = 0402 size
- 0603 = 0603 size
- 0805 = 0805 size
- 1206 = 1206 size
- 1210 = 1210 size
- 2010 = 2010 size
- 2510 = 2510 size

Feature

A = AEC-Q200 Compliant

Resistance Tolerance

- F = ±1 %
- J = ±5 %

TCR (ppm/°C) – See Electrical Characteristics Chart

- X = ±100
- W = ±200
- Z = ±400
- / = Used for zero Ω (jumper) and values from 1 Ω through 9.76 Ω.

Resistance Value

For 1 % Tolerance:

<100 Ω..... "R" represents decimal point (example: 24R3 = 24.3 Ω).

>100 Ω First three digits are significant, fourth digit represents number of zeros to follow (example: 8252 = 82.5K Ω).

For 5 % Tolerance:

<10 Ω..... "R" represents decimal point (example: 4R7 = 4.7 Ω).

>10 Ω..... First two digits are significant, third digit represents number of zeros to follow (example: 474 = 470K Ω).

Packaging

- G = Paper Tape (10,000 pcs.) on 7" Reel – CR0201A-AS, CR0402A-AS
- E = Paper Tape (5,000 pcs.) on 7" Reel – CR0603A-AS, CR0805A-AS, CR1206A-AS, CR1210A-AS
- E = Embossed Tape (4,000 pcs) on 7" Reel – CR2010A-AS, CR2512A-AS

Termination

AS = Anti-sulfur version, Tin-plated (RoHS Compliant)

Symbol for E96 Series Nominal Resistance Value

Symbol	E96	Symbol	E96	Symbol	E96	Symbol	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

Symbol for Multipliers

Symbol	A	B	C	D	E	F	G	H	X	Y	Z
Multiplier	10 ⁰	10 ¹	10 ²	10 ³	10 ⁴	10 ⁵	10 ⁶	10 ⁷	10 ⁻¹	10 ⁻²	10 ⁻³

Marking Explanation



±5 % (E24): CR0603-A-AS / CR0805A-AS / CR1206A-AS / CR1210A-AS / CR2010A-AS / CR2512A-AS

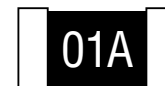
Resistance value is expressed by 3 digits. The first two digits represent the significant figures of nominal resistance value in Ω . And the third digit represents exponent for base of 10.

EX: 102 = $10 \times 10^2 = 1000 \Omega = 1K \Omega$

±1 % (E96): CR0805A-AS / CR1206A-AS / CR1210A-AS / CR2010A-AS / CR2512A-AS

Resistance value is expressed by 3 digits. The first two digits represent the significant figures of nominal resistance value in Ω . And the third digit represents exponent for base of 10.

EX: 102 = $10 \times 10^2 = 1000 \Omega = 1K \Omega$



±1 % (E96): CR0603A-AS

When the marking space is too small in such small-sized resistors as CR0603A-AS, the marking cannot be made by 4 digits and may be made by two digits combined with one English capital.

EX: 01A = $100 \times 10^0 = 100 \Omega$

BOURNS®

Asia-Pacific: Tel: +886-2 2562-4117 • Email: asiacus@bourns.com

EMEA: Tel: +36 88 885 877 • Email: eurocus@bourns.com

The Americas: Tel: +1-951 781-5500 • Email: americus@bourns.com

www.bourns.com

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Users should verify actual device performance in their specific applications.

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Телефон: 8 (812) 309-75-97 (многоканальный)

Факс: 8 (812) 320-03-32

Электронная почта: ocean@oceanchips.ru

Web: <http://oceanchips.ru/>

Адрес: 198099, г. Санкт-Петербург, ул. Калинина, д. 2, корп. 4, лит. А