

CR2010/CR2512 - Chip Resistors

BOURNS®

How to Order

CR 2010 - F X - 8252 E LF

Model _____
(CR = Chip Resistor)

Size _____
• 2010
• 2512

Resistance Tolerance _____
F = $\pm 1\%$ Use with "X" TCR code only for values from 10 ohms through 1 megohm;
Use with "W" TCR code only for values from 1 megohm through 10 megohms
J = $\pm 5\%$ Use with "W" TCR code for values from 10 ohms through 10 megohms;
Use with "Z" TCR code for values above 10 megohms through 20 megohms;
Use with "/" TCR code for zero ohm (jumper) and values from 1 ohm through 9.1 ohms.

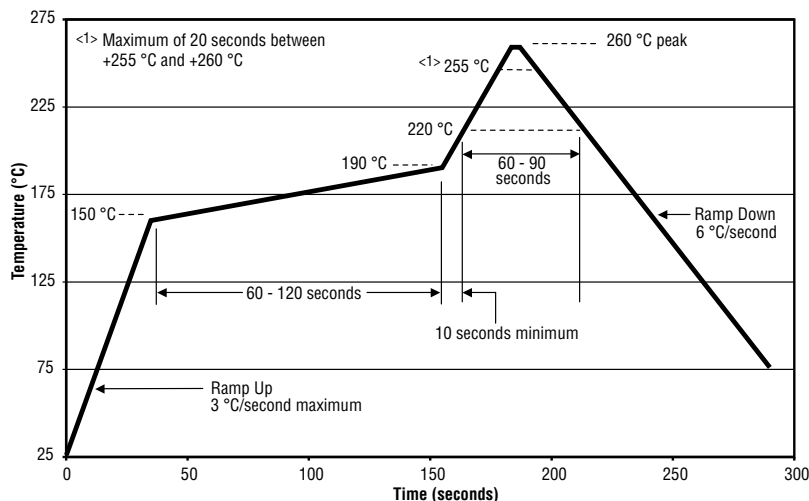
TCR (ppm/ $^{\circ}$ C) _____
X = ± 100
W = ± 200
Z = ± 400
/ = Used with "J" Resistance Tolerance code for zero ohm (jumper) and values from 1 ohm through 9.1 ohms.

Resistance Value _____
For 1 % Tolerance:
<100 ohms....."R" represents decimal point (example: 24R3 = 24.3 ohms)
 ≥ 100 ohms.....First three digits are significant, fourth digit represents number of zeros to follow (example: 8252 = 82.5k W)
For 5 % Tolerance:
<10 ohms "R" represents decimal point (example: 4R7 = 4.7 ohms)
 ≥ 10 ohms..... First two digits are significant, third digit represents number of zeros to follow (example: 474 = 470k ohms; 000 = Jumper)

Packaging _____
E = Embossed Plastic Tape (4,000 pcs.) on 7" Plastic Reel

Termination _____
LF = Tin-plated (RoHS compliant)

Soldering Profile for RoHS Compliant Chip Resistors and Arrays



Marking Explanation

Resistors with 5 % tolerance may have a 3-digit or 4-digit resistance code. Complete information about resistance value and tolerance is found on the label of the reel of chip resistors.

- 5 %: 3 digits, first two digits are significant, third digit is number of zeros to follow. Letter R is decimal point for values from 1 to 9.9 ohms.
- 5 %: 4 digits, first three digits are significant, fourth digit is number of zeros to follow. Letter R is decimal point for values from 1 to 99.9 ohms.
- 1 %: 4 digits, first three digits are significant, fourth digit is number of zeros to follow. Letter R is decimal for values from 1 to 99.9 ohms.

Specifications are subject to change without notice.

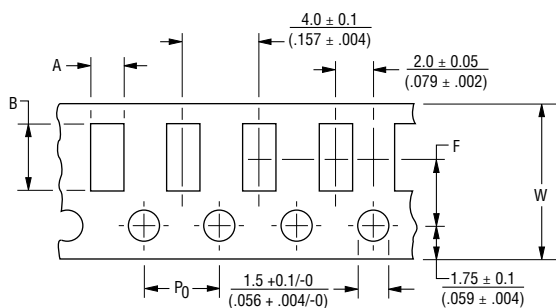
Users should verify actual device performance in their specific applications.

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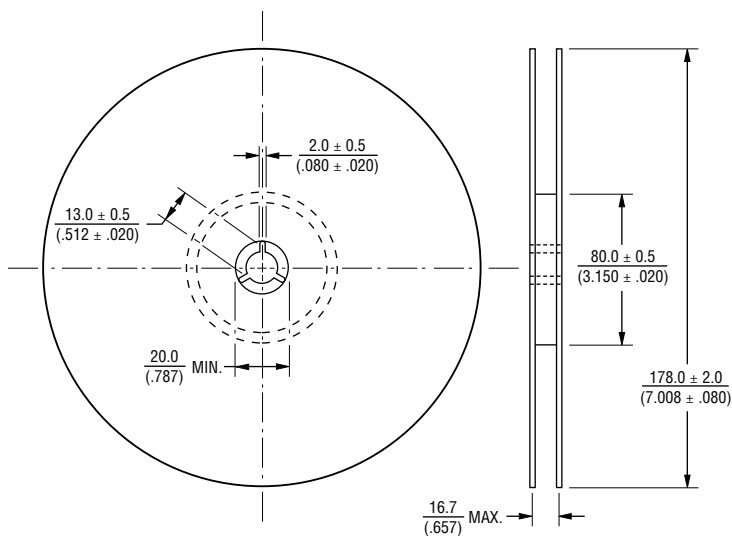
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Packaging Dimensions



Dimension	Model CR2010	Model CR2512
A	$\frac{2.8 \pm 0.2}{(0.110 \pm 0.008)}$	$\frac{3.5 \pm 0.2}{(0.138 \pm 0.008)}$
B	$\frac{5.5 \pm 0.2}{(0.217 \pm 0.008)}$	$\frac{6.7 \pm 0.2}{(0.264 \pm 0.008)}$
W	$\frac{12.0 \pm 0.3}{(0.472 \pm 0.012)}$	$\frac{12.0 \pm 0.3}{(0.472 \pm 0.012)}$
F	$\frac{5.5 \pm 0.05}{(0.217 \pm 0.002)}$	$\frac{5.5 \pm 0.05}{(0.217 \pm 0.002)}$
P0	$\frac{4.0 \pm 0.1}{(0.157 \pm 0.004)}$	$\frac{4.0 \pm 0.1}{(0.157 \pm 0.004)}$

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



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