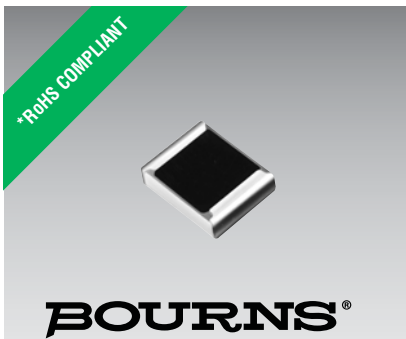




Features

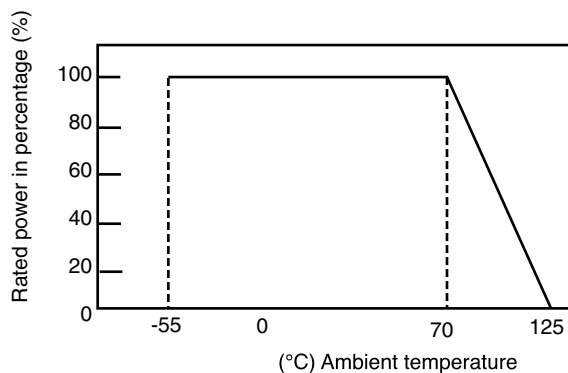
- Small package dimensions
- RoHS compliant*
- Power rating at 70 °C = 1/16 W
- Tight dimensional tolerances
- Three layer termination process with nickel barrier prevents leaching and provides excellent solderability
- Suitable for most types of soldering processes
- Standard packaging on paper tape and reel

CR0402 - Chip Resistor

Electrical Characteristics

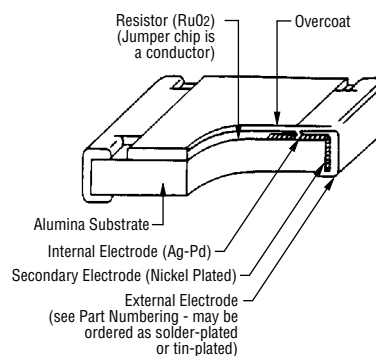
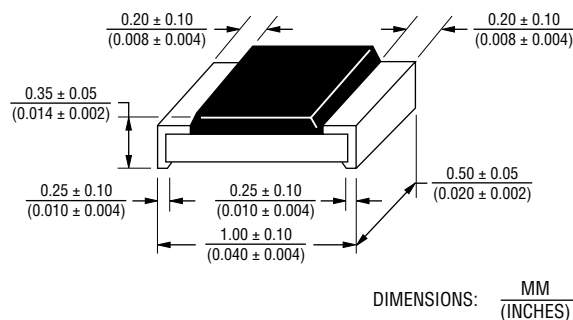
Power Rating @ 70 °C 1/16 W
 Operating Temperature Range -55 °C to +125 °C
 Derated to 0 Load at +125 °C
 Maximum Working Voltage 50 V
 Maximum Overload Voltage 100 V
 Resistance Range
 1 %, E-96 and E-24 10 ohms to 1 megohm
 5 %, E-24 2.2 ohms to 5.6 megohms
 Zero Ohm Jumper <0.05 ohms
 Temperature Coefficient
 1 % ±100 ppm/°C
 5 % ±200 ppm/°C
 2.2 ohm to 10 ohms -200 ppm/°C to +500 ppm/°C

Derating Curve

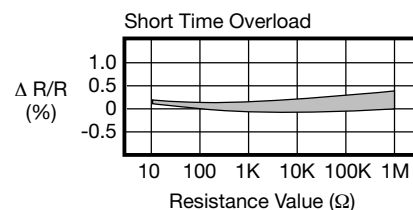
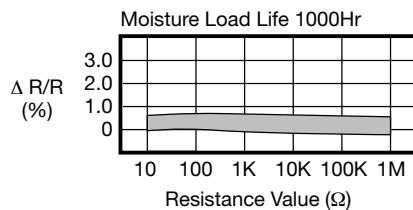
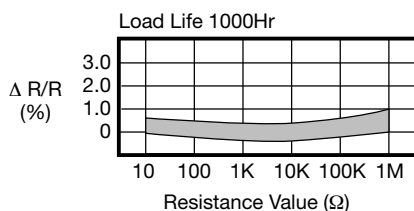


For Standard Values Used in Capacitors, Inductors, and Resistors, [click here](#).

Dimensional Drawings



Characteristic Data

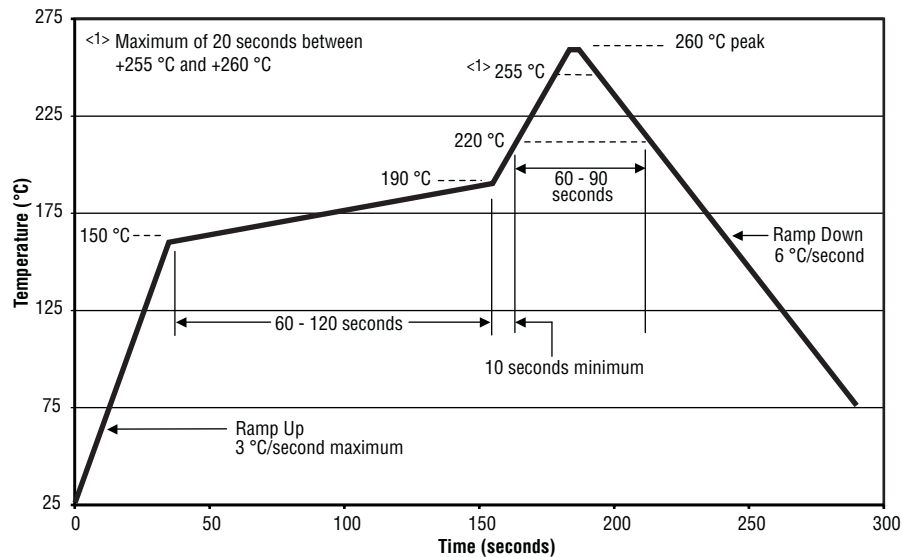


*RoHS Directive 2002/95/EC Jan 27 2003 including Annex.
 Specifications are subject to change without notice.
 Customers should verify actual device performance in their specific applications.

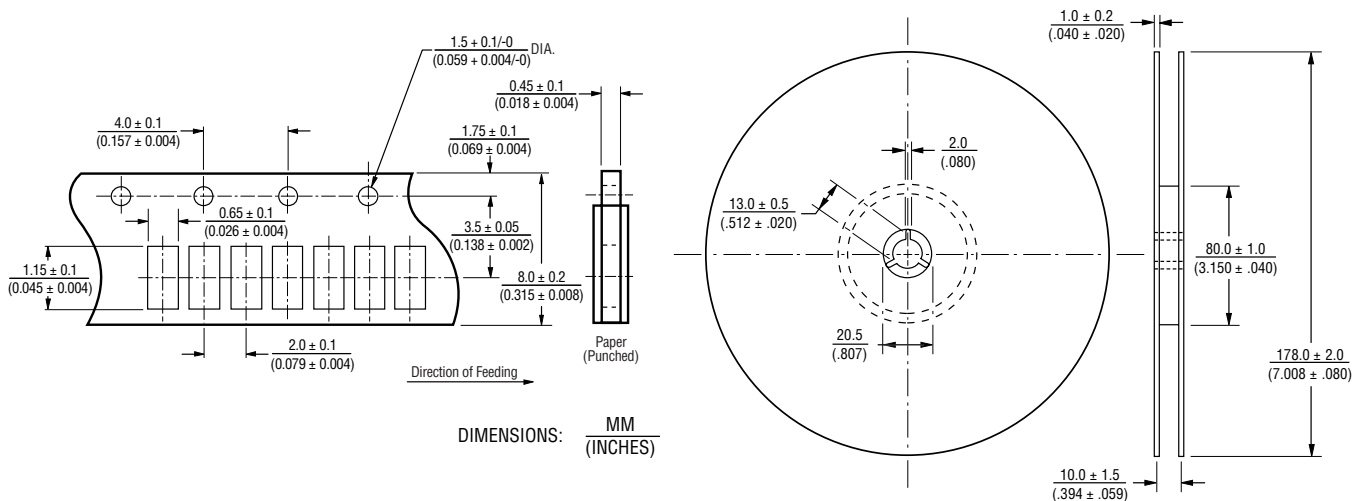
CR0402 - Chip Resistor

BOURNS®

Soldering Profile for RoHS Compliant Chip Resistors and Arrays



Packaging Dimensions (Conforms to EIA RS-481A)



Part Marking System

No Marking on the CR0402 Chip Resistors.

CR0402 - Chip Resistor

BOURNS®

How to Order

CR 0402 - F X - 8252 G LF

Model _____
(CR = Chip Resistor)

Size _____
• 0402

Resistance Tolerance _____
F = $\pm 1\%$ Used with "X" TCR code only for values from 10 ohms through 1 megohm.
J = $\pm 5\%$ Used with "W" TCR code for values from 10 ohms through 5.6 megohms. Used with "/" TCR code for zero ohm (jumper) and for values from 1 ohm through 9.1 ohms.

TCR (ppm/ $^{\circ}$ C) _____
X = ± 100 Used with "F" Resistance Tolerance code only for values from 10 ohms through 1 megohm.
W = ± 200 Used with "J" Resistance Tolerance code only for values from 10 ohms through 5.6 megohms.
/ = -250 to +500 ...Used with "J" Resistance Tolerance code only for zero ohm (jumper), and for values from 1 ohm through 9.1ohms.

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

Packaging _____
G = Paper Tape (10,000 pcs.) on 7 " Plastic Reel

Termination _____
LF = Tin-plated (RoHS compliant)

Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

Bourns:

[CR0402-FX-1503G](#) [CR0402-FX-1501G](#) [CR0402-FX-4021G](#) [CR0402-J/-000GLF](#) [CR0402-JW-390G](#) [CR0402-FX-8252G](#) [CR0402-JW-390H](#) [CR0402-FX-1203G](#) [CR0402-FX-1200G](#) [CR0402-JW-272G](#) [CR0402-JW-270G](#) [CR0402-FX-22R1G](#) [CR0402-FX-22R0G](#) [CR0402-FX-1202G](#) [CR0402-FX-1201G](#) [CR0402-FX-68R0G](#) [CR0402-FX-39R0G](#) [CR0402-FX-78R7G](#) [CR0402-FX-51R1G](#) [CR0402-FX-2742G](#) [CR0402-FX-3920G](#) [CR0402-FX-71R5G](#) [CR0402-FX-6802G](#) [CR0402-FX-6803G](#) [CR0402-FX-5601G](#) [CR0402-FX-24R9G](#) [CR0402-JW-390GLF](#) [CR0402-JW-151G](#) [CR0402-FX-3302G](#) [CR0402-FX-2701G](#) [CR0402-FX-1600G](#) [CR0402-FX-5900G](#) [CR0402-JW-180GLF](#) [CR0402-FX-5901G](#) [CR0402-JW-150G](#) [CR0402-FX-30R0G](#) [CR0402-FX-4701G](#) [CR0402-FX-4702G](#) [CR0402-FX-4703G](#) [CR0402-JW-241G](#) [CR0402-FX-2210G](#) [CR0402-FX-2801G](#) [CR0402-FX-2213G](#) [CR0402-JW-202G](#) [CR0402-FX-54R9G](#) [CR0402-FX-7501G](#) [CR0402-FX-2673G](#) [CR0402-FX-3010G](#) [CR0402-FX-1050G](#) [CR0402-FX-1211G](#) [CR0402-FX-8203G](#) [CR0402-FX-8201G](#) [CR0402-FX-8200G](#) [CR0402-FX-8202G](#) [CR0402-FX-2000G](#) [CR0402-FX-6812G](#) [CR0402-FX-6811G](#) [CR0402-FX-3830G](#) [CR0402-FX-6810G](#) [CR0402-JW-LAB8](#) [CR0402-FX-7500G](#) [CR0402-FX-7502G](#) [CR0402-FX-2670G](#) [CR0402-FX-3011G](#) [CR0402-JW-473G](#) [CR0402-JW-471G](#) [CR0402-J/-000G](#) [CR0402-FX-9091G](#) [CR0402-FX-2370G](#) [CR0402-FX-2050G](#) [CR0402-FX-6202G](#) [CR0402-FX-6203G](#) [CR0402-FX-6200G](#) [CR0402-FX-6201G](#) [CR0402-FX-8660G](#) [CR0402-FX-5602G](#) [CR0402-FX-5603G](#) [CR0402-JW-180G](#) [CR0402-FX-5600G](#) [CR0402-JW-100GLF](#) [CR0402-FX-5623G](#) [CR0402-FX-56R2G](#) [CR0402-FX-56R0G](#) [CR0402-FX-5620G](#) [CR0402-FX-2002G](#) [CR0402-FX-2003G](#) [CR0402-FX-2001G](#) [CR0402-FX-35R7G](#) [CR0402-JW-220GLF](#) [CR0402-FX-2432G](#) [CR0402-FX-51R0G](#) [CR0402-FX-37R4G](#) [CR0402-FX-1370G](#) [CR0402-FX-2202G](#) [CR0402-FX-12R0G](#) [CR0402-JW-332G](#) [CR0402-FX-1302G](#) [CR0402-FX-1301G](#) [CR0402-FX-1300G](#) [CR0402-JW-331G](#)