



## Features

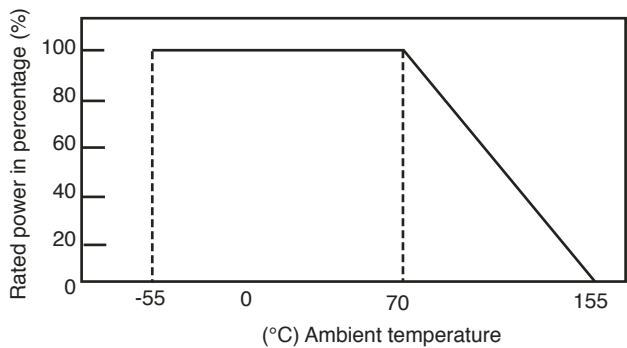
- Small package dimensions
- RoHS compliant\*
- Power rating at 70 °C = 1/16 W
- Tight dimensional tolerances
- Three layer termination process with nickel barrier prevents leaching and provides excellent solderability
- Suitable for most types of soldering processes
- Standard packaging on paper tape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

# CR0402 - Chip Resistor

## Electrical Characteristics

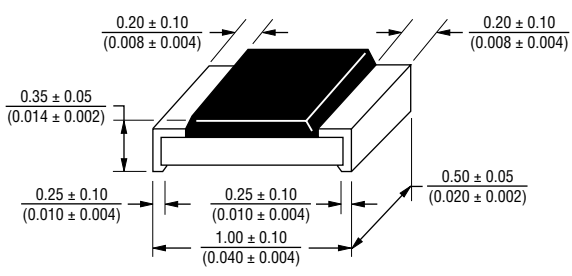
Power Rating @ 70 °C.....1/16 W  
 Operating Temperature Range  
 .....-55 °C to +155 °C  
 Derated to 0 Load at .....+155 °C  
 Maximum Working Voltage .....50 V  
 Maximum Overload Voltage .....100 V  
 Resistance Range  
 1 %, E-96 and E-24  
 .....10 ohms to 1 megohm  
 5 %, E-24  
 .....2 ohms to 5.6 megohms  
 Zero Ohm Jumper.....<0.05 ohms  
 Temperature Coefficient  
 1 % .....±100 ppm/°C  
 5 % .....±200 ppm/°C  
 1 ohm to 10 ohms  
 .....-200 ppm/°C to +500 ppm/°C

## Derating Curve

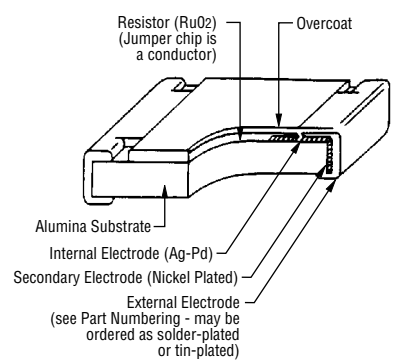


For Standard Values Used in Capacitors, Inductors, and Resistors, [click here](#).

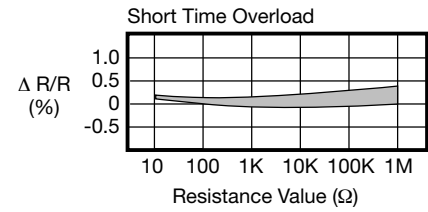
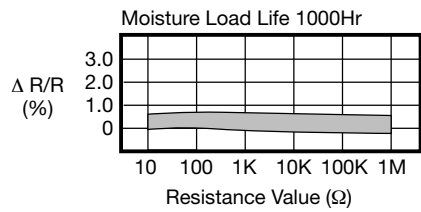
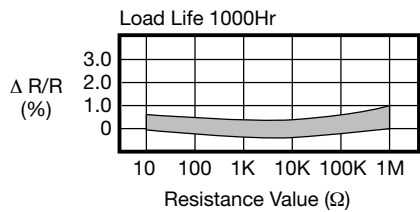
## Dimensional Drawings



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



## Characteristic Data

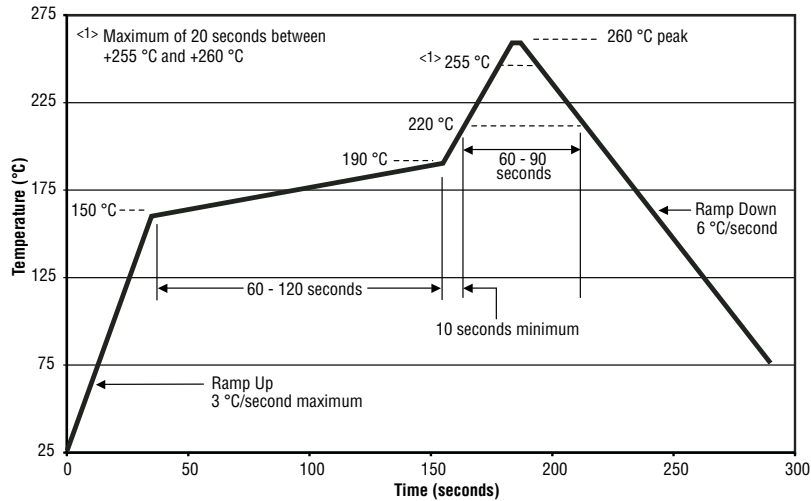


\*RoHS Directive 2002/95/EC Jan 27 2003 including Annex  
 Specifications are subject to change without notice.  
 Customers should verify actual device performance in their specific applications.

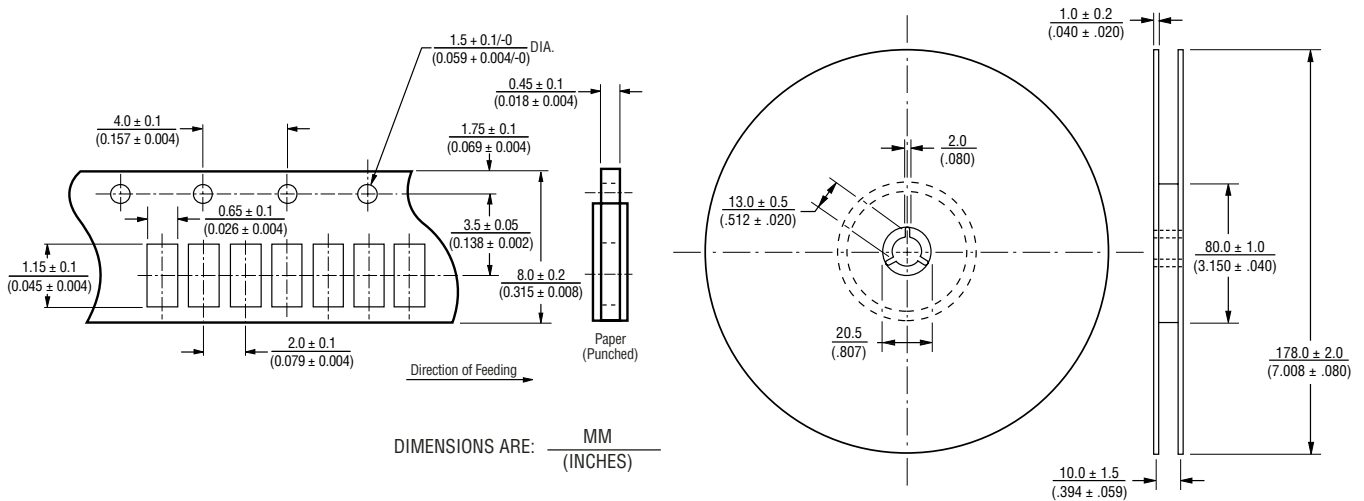
# CR0402 - Chip Resistor

**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)	CR	0402	-	F	X	-	8252	G	LF
Size _____ • 0402									
Resistance Tolerance _____ F = ±1 % .....Used with "X" TCR code only for values from 10 ohms through 1 megohm. J = ±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/°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 ohms.....First 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 ohms.....First 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)									