

#### **Features**

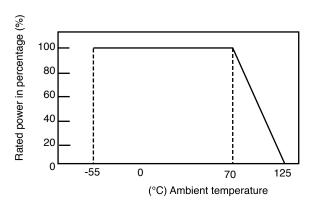
- Small package dimensions
- Lead free version available (see How to Order "Termination" options)
- RoHS compliant\*
- Power rating at 70 °C = 1/16 W
- Tight dimensional tolerances
- Three layer termination process with nickel barrier prevents leaching and provides excellent solderability
- Suitable 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......25 V Maximum Overload Voltage ......50 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

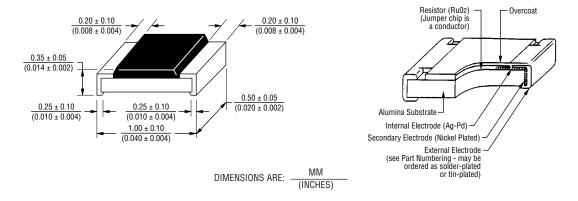
**Derating Curve** 



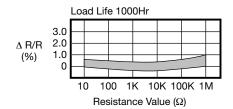
For Standard Values Used in Capacitors, Inductors, and Resistors, click here.

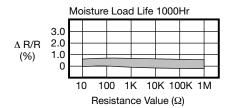
.....-200 ppm/°C to +500 ppm/°C

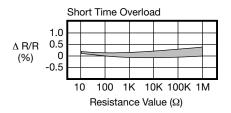
#### **Dimensional Drawings**



#### **Characteristic Data**





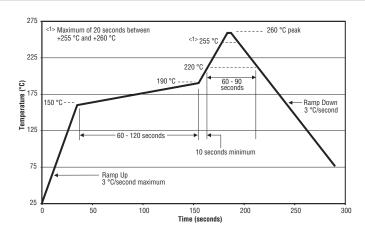


\*RoHS Directive 2002/95/EC Jan 27 2003 including Annex Specifications are subject to change without notice. Customers should verify actual device performance in their specific applications.

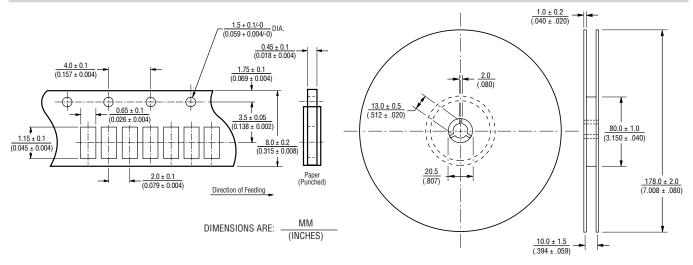
# CR0402 - Chip Resistor

## **BOURNS**®

### Soldering Profile for Lead Free 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
Model
(CR = Chip Resistor)
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)
TCR (ppm/°C)  X = ±100Used with "F" Resistance Tolerance code only for values from 10 ohms through 1 megohm.  W = ±200Used with "J" Resistance Tolerance code only for values from 10 ohms through 5.6 megohms.  / = -250 to +500Used 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
For 5 % Tolerance: <10 ohms
Packaging G = Paper Tape (10,000 pcs.) on 7 " Plastic Reel
Termination —
LF = Tin-plated (lead free) = Solder-plated

REV. 04/06

Specifications are subject to change without notice.

Customers should verify actual device performance in their specific applications.