

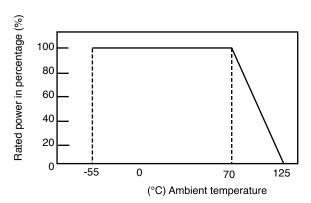
### **Features**

- 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

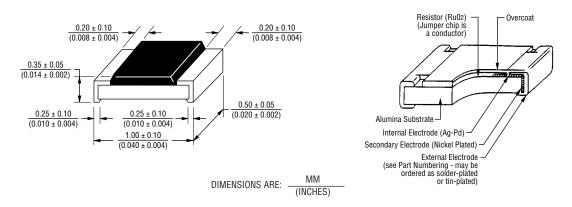
#### **Electrical Characteristics**

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 .....-200 ppm/°C to +500 ppm/°C **Derating Curve** 

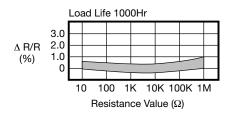


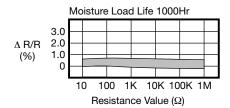
For Standard Values Used in Capacitors, Inductors, and Resistors, click here.

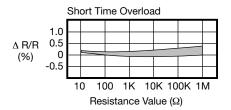
#### **Dimensional Drawings**



#### **Characteristic Data**



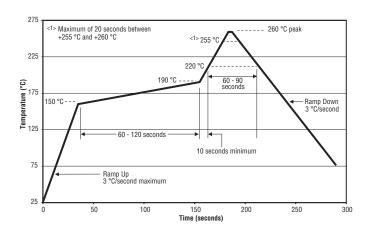




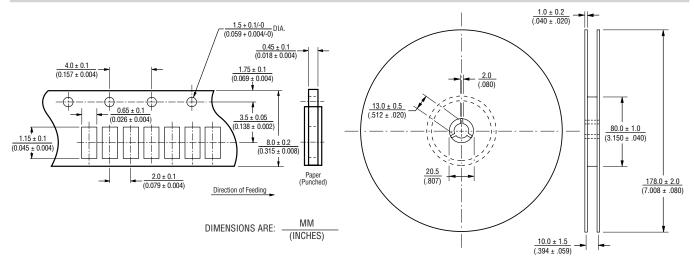
# CR0402 - Chip Resistor

## **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
  .....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:
 ≥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 (lead free)
__ = Solder-plated
```