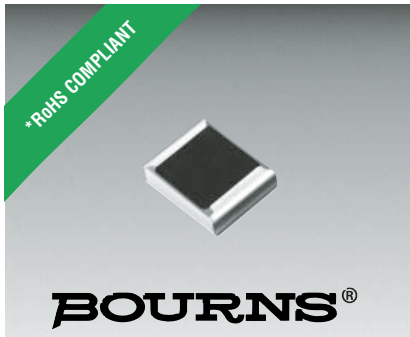




Features

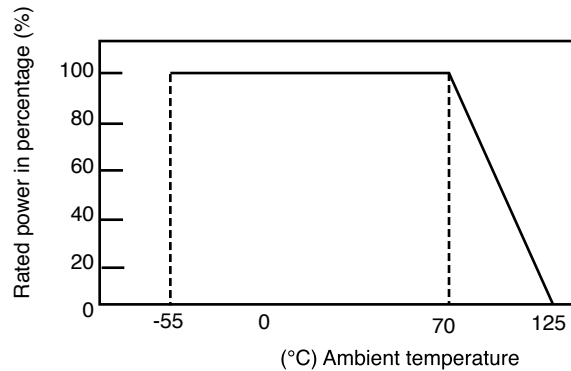
- Small package dimensions
- RoHS compliant*
- Power rating at 70 °C = 1/16 W
- Tight dimensional tolerances
- Three layer termination process with nickel barrier prevents leaching and provides excellent solderability
- Suitable for most types of soldering processes
- Standard packaging on paper tape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

CR0402 - Chip Resistor

Electrical Characteristics

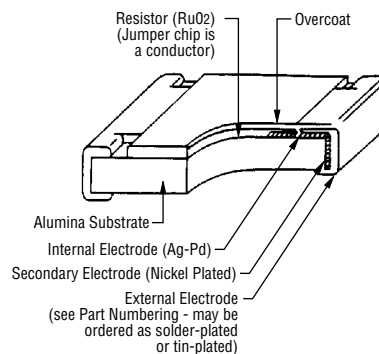
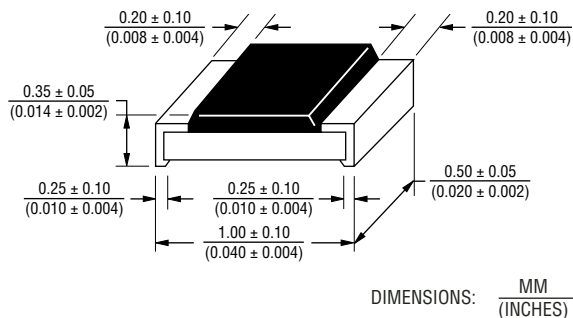
Power Rating @ 70 °C 1/16 W
 Operating Temperature Range -55 °C to +155 °C
 Derated to 0 Load at +155 °C
 Maximum Working Voltage 50 V
 Maximum Overload Voltage 100 V
 Resistance Range
 1 %, E-96 and E-24 10 ohms to 1 megohm
 5 %, E-24 2.2 ohms to 5.6 megohms
 Zero Ohm Jumper <0.05 ohms
 Temperature Coefficient
 1 % ±100 ppm/°C
 5 % ±200 ppm/°C
 2.2 ohm to 10 ohms -200 ppm/°C to +500 ppm/°C

Derating Curve

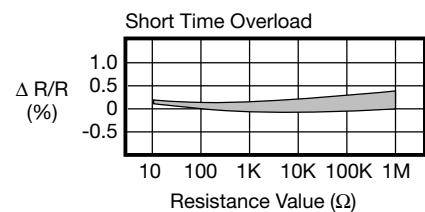
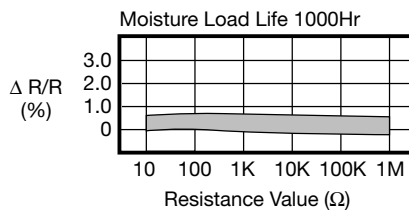
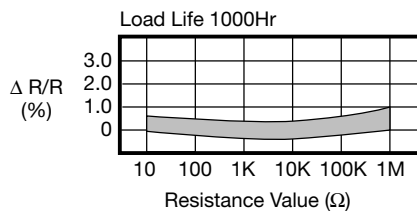


For Standard Values Used in Capacitors, Inductors, and Resistors, [click here](#).

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

BOURNS®

Temperature (°C)

Time (seconds)

<1> Maximum of 20 seconds between +255 °C and +260 °C

<1> 255 °C

260 °C peak

220 °C

190 °C

150 °C

60 - 120 seconds

60 - 90 seconds

10 seconds minimum

Ramp Up 3 °C/second maximum

Ramp Down 6 °C/second

Technical drawing of a paper punch, showing side, top, and detail views with dimensions in mm and inches.

Side View Dimensions:

- Overall width: 4.0 ± 0.1 mm (0.157 ± 0.004) inches
- Distance from left edge to first hole: 1.15 ± 0.1 mm (0.045 ± 0.004) inches
- Distance between holes: 0.65 ± 0.1 mm (0.026 ± 0.004) inches
- Distance from last hole to right edge: 2.0 ± 0.1 mm (0.079 ± 0.004) inches
- Overall height: 8.0 ± 0.2 mm (0.315 ± 0.008) inches
- Distance from top edge to hole center: 3.5 ± 0.05 mm (0.138 ± 0.002) inches
- Distance from bottom edge to hole center: 4.5 ± 0.15 mm (0.177 ± 0.006) inches
- Top hole diameter: $1.5 \pm 0.1/0$ DIA. ($0.059 \pm 0.004/0$) inches
- Bottom hole diameter: 0.45 ± 0.1 mm (0.018 ± 0.004) inches
- Distance from top edge to bottom hole center: 1.75 ± 0.1 mm (0.069 ± 0.004) inches
- Direction of Feeding: Indicated by an arrow pointing right.

Top View Dimensions:

- Overall diameter: 13.0 ± 0.5 mm (0.512 ± 0.020) inches
- Distance from center to hole center: 2.0 mm (0.080) inches
- Distance from center to edge: 20.5 mm (0.807) inches

Detail View Dimensions:

- Overall width: 1.0 ± 0.2 mm (0.040 ± 0.020) inches
- Distance from center to edge: 80.0 ± 1.0 mm (3.150 ± 0.040) inches
- Overall height: 178.0 ± 2.0 mm (7.008 ± 0.080) inches
- Distance from center to edge: 10.0 ± 1.5 mm (0.394 ± 0.059) inches

Dimensions: MM (INCHES)

Specifications are subject to change without notice.
Customers should verify actual device performance in their specific applications

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CR 0402 - F X - 8252 G LF

LF = Tin-plated (RoHS compliant)