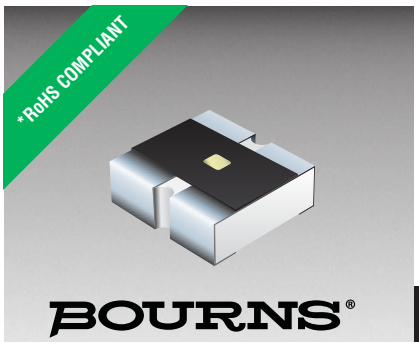


Features

- RoHS compliant*
- Convex termination style
- 2 isolated elements in an 02 package width
- Resistance tolerance: ±5 %
- Resistance range: 10 ohms to 1 megohm & zero-ohm jumper
- Sulfur-resistant design

CAY06-AS Series - Sulfur-Resistant Thick Film Chip Arrays

General Characteristics

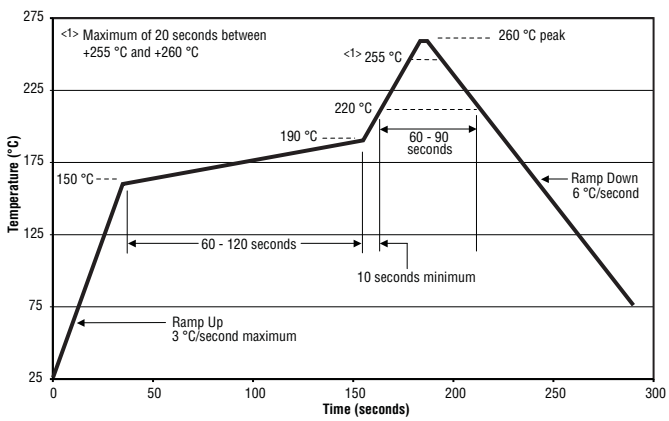
Characteristic	CAY06-AS
Number of Elements (Isolated)	2
Power Rating @ 70 °C per Resistor	31 mW
Resistor Tolerance	±5 %
Resistance Range (E24) plus Zero-ohm Jumper	10 ohms to 1 megohm
Temperature Coefficient of Resistance (TCR)	±200 ppm
Maximum Overload Voltage	25 V
Maximum Working Voltage	12.5 V
Operating Temperature Range	-55 to +125 °C
Storage Conditions	+5 ~ +40 °C, 25~75 % RH, 1 year
Derating Temperature	+70 °C
Packaging (Paper Tape)	10,000 pcs. per reel
Zero-ohm Jumper: Current Rating Maximum Resistance	 1 A per element 100 milliohms

Environmental Characteristics

Specification	Test Method (JIS C 5201-1)	Characteristics
Short Time Overload	Rated voltage x 2.5, 5 seconds	±(2 % +0.1 ohm)
Soldering Heat	+260 °C ±5 °C, 10 ±1 seconds	±(1 % +0.05 ohm)
Temperature Cycling	-55 °C (30 minutes) - normal (2~3 minutes) +125 °C (30 minutes) - normal (2~3 minutes), 5 cycles	±(1 % +0.05 ohm)
Moisture Load Life	+40 °C, 90~95 % RH, 1000 hours, 1.5 hours ON, 0.5 hours OFF	±(3 % +0.1 ohm)
Load Life	+70 °C, 1000 hours, 1.5 hours ON, 0.5 hours OFF	±(3 % +0.1 ohm)
Sulfur Test	3 ppm H2S, +50 °C, 90~95 % RH, 100 hours	±(5 % +0.1 ohm)

NOTE: Zero-ohm jumper <100 milliohms.

Soldering Profile



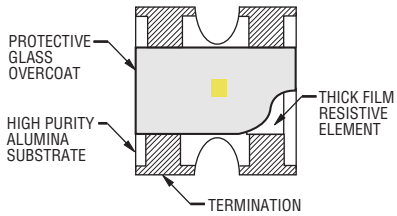
How To Order

CA Y 06 - 103 J 2 AS

- Chip Array
- Type
  - Y = Convex
- Model
  - 06 = 02 Package Width
- Resistance Code
  - First two digits are significant, third digit represents number of zeros to follow *(example: 103 = 10K ohms)*
  - 000 = Zero-ohm jumper
- Resistance Tolerance
  - J = ±5 %
- Resistors
  - 2 = 2 Resistors
- Special Characteristics
  - AS = Sulfur-resistant, Tin-plated terminations (RoHS compliant)

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

Construction



WARNING
Cancer and Reproductive Harm
www.P65Warnings.ca.gov

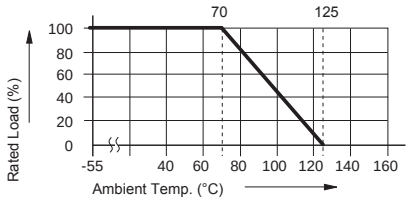
*RoHS Directive 2015/863, Mar 31, 2015 and Annex.
Specifications are subject to change without notice.
Users should verify actual device performance in their specific applications. The products described herein and this document are subject to specific legal disclaimers as set forth on the last page of this document, and at
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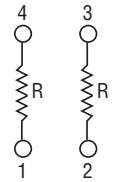
CAY06-AS Series - Sulfur-Resistant Thick Film Chip Arrays

BOURNS®

Derating Curve



Isolated Circuit

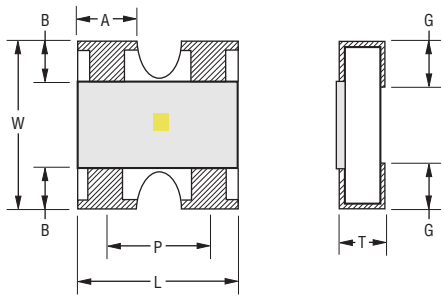


Typical Part Marking

Marking.....Refer to Product Dimensions
Marking Color.....Yellow

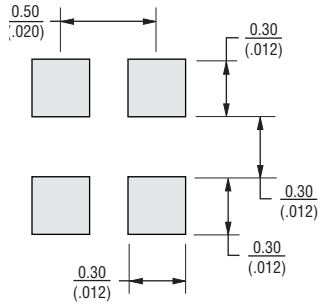
Product Dimensions

Dim.	CAY06-AS
L	0.85 ± 0.05 (0.033 ± 0.002)
W	0.60 ± 0.05 (0.024 ± 0.002)
T	0.35 ± 0.05 (0.014 ± 0.002)
P	0.50 ± 0.05 (0.020 ± 0.002)
A	0.37 ± 0.05 (0.015 ± 0.002)
B	0.11 ± 0.05 (0.004 ± 0.002)
G	0.17 ± 0.05 (0.007 ± 0.002)

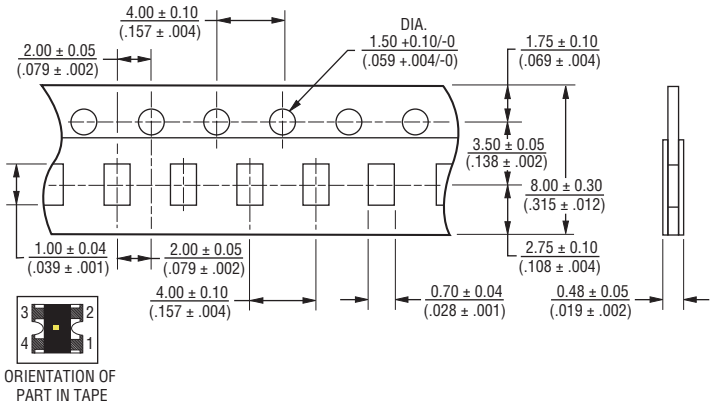


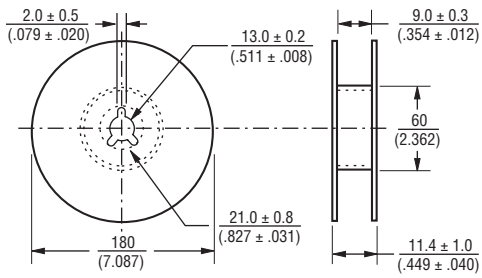
DIMENSIONS: MM / (INCHES)

Recommended Land Pattern



Packaging Specifications





DIMENSIONS: MM / (INCHES)

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www.bourns.com

09/19

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