

### **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

## BOURNS

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

### **General Characteristics**

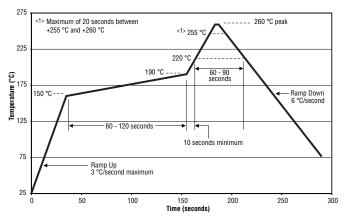
Characteristic	CAY06-AS		
Number of Elements (Isolated)	2		
Power Rating @ 70 °C per Resistor	31 mW		
Resistor Tolerance	±5 %		
Resistance Range (E24) plus Zero-ohm Jumper	10 ohms to 1 megohm		
Temperature Coefficient of Resistance (TCR)	±200 ppm		
Maximum Overload Voltage	25 V		
Maximum Working Voltage	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**

		,
Speci cation	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.

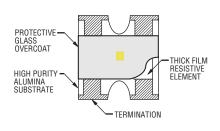
### Soldering Pro le



How To Order
CA Y 06 - 103 J 2 AS
Chip Array
Type V = 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
<ul> <li>Special Characteristics</li> <li>AS = Sulfur-resistant, Tin-plated terminations (RoHS compliant)</li> </ul>

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

#### Construction

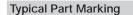




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### CAY06-AS Series - Sulfur-Resistant Thick Film Chip Arrays

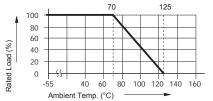
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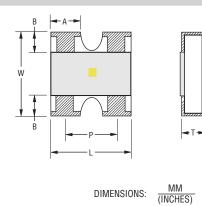
Marking	.Refer to	Product	Dimensions	5
Marking Cold	or		Yellov	V

### **Derating Curve Isolated Circuit**



#### **Product Dimensions**

Dim.	CAY06-AS
L	$\frac{0.85 \pm 0.05}{(0.033 \pm 0.002)}$
W	$\frac{0.60 \pm 0.05}{(0.024 \pm 0.002)}$
т	$\frac{0.35 \pm 0.05}{(0.014 \pm 0.002)}$
Р	$\frac{0.50 \pm 0.05}{(0.020 \pm 0.002)}$
A	$\frac{0.37 \pm 0.05}{(0.015 \pm 0.002)}$
В	$\frac{0.11 \pm 0.05}{(0.004 \pm 0.002)}$
G	$\frac{0.17 \pm 0.05}{(0.007 \pm 0.002)}$



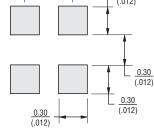
G

G

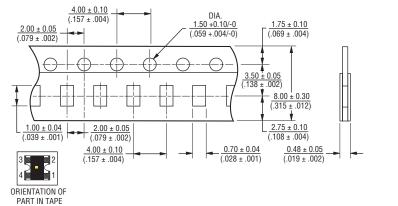
O R R

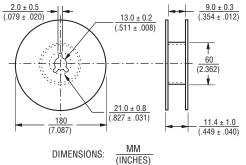


**Recommended Land Pattern** 



### **Packaging Specifications**





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#### 09/19

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