

### **Features**

- RoHS compliant\*
- 2/4 isolated resistors in an 0404/0804 size package
- E24 series from 10 ohms to 1 megohm
- Convex termination style
- Resistance tolerance ±5 %
- Suitable for all types of soldering processes

■ Paper tape on reel for automatic placement

# **Model CAY10 - Chip Resistor Array**

#### **Electrical Characteristics**

Characteristics	CAY10-xxxJ2	CAY10-xxxJ4	
Number of Elements (Isolated)	2	4	
Power Rating @ 70 °C per Resistor	0.0625 W	0.0625 W	
Package Power Rating @ 70 °C	0.125 W	0.250 W	
Resistance Tolerance	±5 %		
Resistance Range (E24) plus Zero-ohm Jumper	3 ohms - 1 megohm		
T.C.R.	3 ohms ~ 9.1 ohms: ±500 ppm/°C 10 ohms ~ 1 megohm: ±200 ppm/°C		
Max. Overload Voltage	50 V		
Max. Working Voltage	25 V		
Operating Temp. Range	-55 °C to +125 °C		
Rating Temperature	+70 °C		
Packaging	10,000 pieces per reel		

#### **Performance Characteristics**

Requirement	Characteristics	Test Method
Short Time Overload	±2 %	Rated Voltage X 2.5, 5 seconds
Soldering Heat	±1 %	260 °C ±5 °C, 10 seconds ±1 second
Temperature Cycling (5)	±1 %	125 °C (30 minutes) - normal (15 minutes) -30 °C (30 minutes) - normal (15 minutes)
Moisture Load Life	±3 %	1000 hours
Load Life	±3 %	1000 hours

#### **Environmental Characteristics**

Moisture Sensitivity Level	1
ESD Classification (HRM)	NI/A

Isolated Circu	uit			
CAY10-xxxJ2		4 O R R	3 WR 0 2	
CAY10-xxxJ4	8 O WR	7 WR 0 2	6 	5 O WR O 4

#### **Additional Information**

Click these links for more information:











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now to Order			
CA Y 10 - 103 .	J 4	ł L	_F
Chip Arrays —			
Type —	ΙI		
• Y = Convex			
Model —			
• 10 = 04 Package Width			
• <10 ohms: "R" represents decimal point (example: 4R7 = 4.7 ohms).			
<ul> <li>≥10 ohms: First two digits are signifi- cant, third digit represents number of zeros to follow (example: 474 = 470k ohms</li> </ul>			
<ul> <li>000 = Zero-ohm .lumper</li> </ul>	ΙI		

Resistance Tolerance —

• J = ±5 %

Resistors -

• 2 = 2 Resistors • 4 = 4 Resistors

Terminations —

• LF = Tin-plated (RoHS compliant)

For Standard Values Used in Capacitors, Inductors, and Resistors, <u>click here</u>.



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

# **Model CAY10 - Chip Resistor Array**

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#### **Typical Part Marking**

#### CAY10-xxxJ2

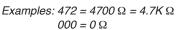
No part marking.



#### CAY10-xxxJ4

### ±5 % (E24)

3 digits; first two digits are significant, third digit is the number of zeroes to follow.

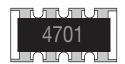




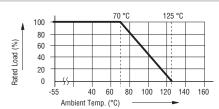
#### ±1 % (E96)

4 digits; first three digits are significant, fourth digit is the number of zeroes to follow

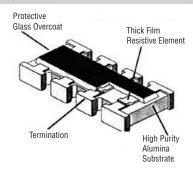
Example:  $4701 = 4700 \Omega = 4.7K \Omega$ 



#### **Derating Curve**

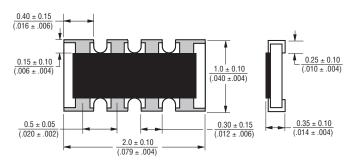


#### Construction

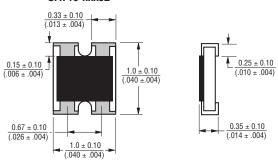


#### **Product Dimensions**

#### CAY10-xxxJ4

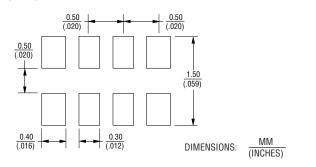


#### CAY10-xxxJ2

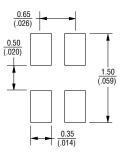


#### **Land Pattern**

#### CAY10-xxxJ4



#### CAY10-xxxJ2



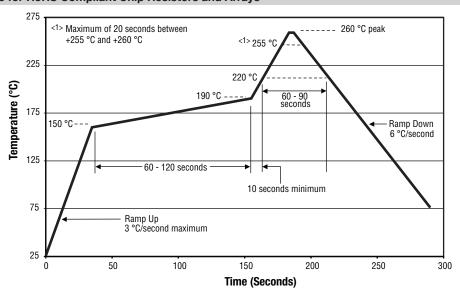
Specifications are subject to change without notice.

Users should verify actual device performance in their specific applications.

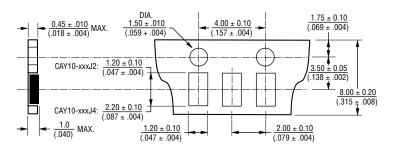
# **Model CAY10 - Chip Resistor Array**

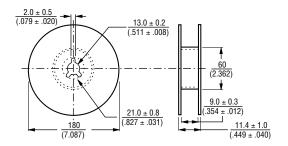
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### Soldering Profile for RoHS Compliant Chip Resistors and Arrays



#### **Packaging Dimensions**





MM DIMENSIONS: (INCHES)

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 ACAS06S0830342P100
 ACAS06S0830345P100
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 EXB-U18330JX
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