

Features

- RoHS compliant*
- Convex termination style
- 4 isolated elements in an 06 package width
- Resistance tolerance: ±5 %
- Resistance range: 10 ohms to 1 megohm & zero-ohm jumper
- Sulfur-resistant design



The Model CAY16A-AS series is the recommended replacement.

CAY16-AS Series - Sulfur-Resistant Thick Film Chip Arrays

General Characteristics

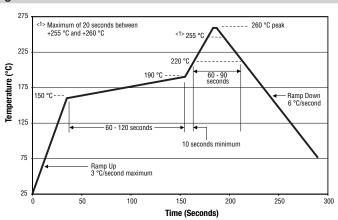
Characteristic	CAY16-AS
Number of Elements (Isolated)	4
Power Rating @ 70 °C per Resistor	63 mW
Resistor Tolerance	±5 %
Resistance Range (E24) plus Zero-ohm Jumper	10 ohms to 1 megohm
Temperature Coefficient of Resistance (TCR)	±200 ppm
Maximum Overload Voltage	100 V
Maximum Working Voltage	50 V
Operating Temperature Range	-55 to +125 °C
Storage Conditions	+5 ~ +40 °C, 25~75 % RH, 1 year
Derating Temperature	+70 °C
Packaging (Paper Tape)	5,000 pcs. per reel
Zero-ohm Jumper: Current Rating Maximum Resistance	1 A per element 50 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 (30 minutes) +125 °C (30 minutes) - normal (30 minutes), 5 cycles ±(1 % +0.05 o	
Moisture Load Life	+40 °C ±2 °C, rated voltage, 90 minutes ON, 30 minutes OFF, 1000 hours	±(3 % +0.1 ohm)
Load Life	+70 °C, rated voltage, 90 minutes ON, 30 minutes OFF, 1000 hours	±(3 % +0.1 ohm)
Sulfur Test	3 ppm H2S, +50 °C, 90~95 % RH, 100 hours	±(5 % +0.1 ohm)

NOTE: Zero-ohm jumper <50 milliohms except sulfur test <100 milliohms.

Soldering Profile



Additional Information

Click these links for more information:











PRODUCT

TECHNICAL

INVENTORY

How To Order

CA Y 16 - 103 J 4 AS Chip Array Type Y = Convex Model -

16 = 06 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

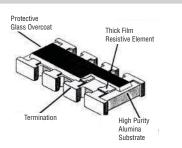
4 = 4 Resistors

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

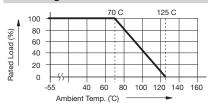
*RoHS Directive 2015/863, Mar 31, 2015 and Annex. Specifications are subject to change without notice. Users should verify actual device performance in their specific applications.

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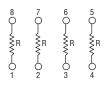
CAY16-AS Series - Sulfur-Resistant Thick Film Chip Arrays

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Derating Curve



Isolated Circuit

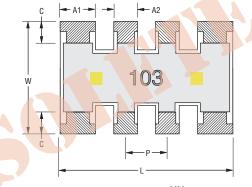


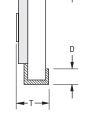
Typical Part Marking

Marking.......Refer to Product Dimensions
Marking Color......Yellow
Zero-ohm Jumper Marking000

Product Dimensions

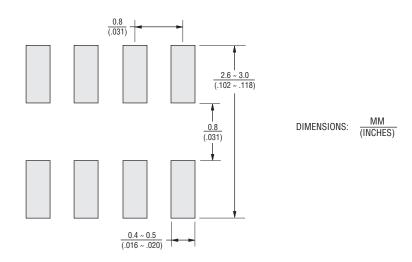
Dim.	CAY16-AS
L	$\frac{3.20 \pm 0.10}{(0.126 \pm 0.004)}$
W	$\frac{1.60 \pm 0.10}{(0.063 \pm 0.004)}$
A1	$\frac{0.60 \pm 0.15}{(0.024 \pm 0.006)}$
A2	$\frac{0.40 \pm 0.15}{(0.016 \pm 0.006)}$
С	$\frac{0.30 \pm 0.20}{(0.012 \pm 0.008)}$
D	$\frac{0.25 \pm 0.15}{(0.010 \pm 0.006)}$
Т	$\frac{0.50 \pm 0.10}{(0.020 \pm 0.004)}$
Р	0.80 (0.031)



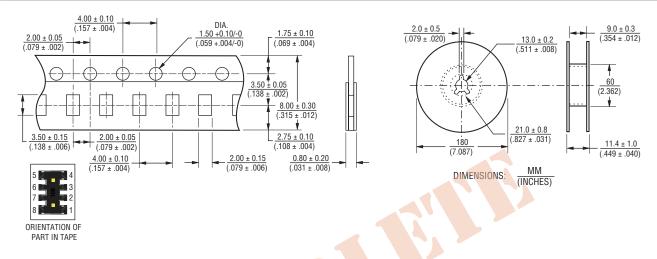


DIMENSIONS: $\frac{MM}{(INCHES)}$

Recommended Land Pattern



Packaging Specifications



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