

Features

- RoHS compliant*
- Convex and concave terminals
- 4 isolated elements
- Resistance tolerance ±1 % and ±5 %
- Resistance range: 10 ohms to 1 megohm

CAT/CAY 16 Series - Chip Resistor Arrays

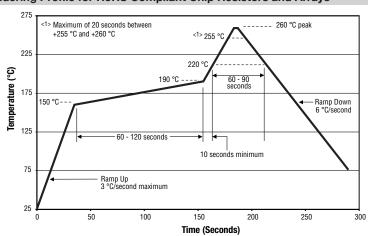
Specifications

Requirement	Characteristics	Test Method
Short Time Overload	±2 % +0.1 ohm	Rated Voltage X 2.5, 5 seconds
Soldering Heat	±2 % +0.1 ohm	260 °C ±5 °C, 10 seconds ±1 second
Temperature Cycling (5)	±1 % + 0.1 ohm	125 °C (30 minutes) - normal (15 minutes) -55 °C (30 minutes) - normal (15 minutes)
Moisture Load Life	±3 % +0.1 ohm	1000 hours
Load Life	±3 % +0.1 ohm	1000 hours

Characteristics

Characteristics	CAT16/CAY16		
Number of Elements	4 (F4, J4)		
Power Rating Per Resistor @ 70 °C	0.0625 W		
Package Power Rating @ 70 °C	0.250 W		
Temperature Coefficient of Resistance	±200 PPM/°C		
Resistance Tolerance	±1 %, ±5 %		
Resistance Range: E24 (J), E96 + E24 (F) Zero-Ohm Jumper < 0.05 ohm	10 ohms - 1 megohm		
Max. Working Voltage	50 V		
Max. Overload Voltage	100 V		
Operating Temp. Range	-55 °C - 125 °C		

Soldering Profile for RoHS Compliant Chip Resistors and Arrays



F4, J41206 Package Size

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

Click these links for more information:





LIBRARY







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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Additional Information





How To Order

Resistance Code · For 1 % Tolerance:

8252 = 82.5k ohms) · For 5 % Tolerance:

• 000 = Zero Ohm Jumper Resistance Tolerance

• 4 = 4 Isolated Resistors

Packaging Size

LF = Tin-plated (RoHS compliant)

Jumper)

• F = ±1 %

Resistors -

Terminations

ohms)

• CAT16 = Concave Terminations • CAY16 = Convex Terminations

<100 ohms - "R" represents decimal point (example: 24R3 = 24.3 ohms) ≥100 ohms - First three digits are significant, fourth digit represents number of zeros to follow (example:

<10 ohms - "R" represents decimal point (example: 4R7 = 4.7 ohms) ≥10 ohms - First two digits are significant, third digit represents number of zeros to follow (example: 474 = 470k

• $J = \pm 5$ % (4 resistor pkg. and Zero Ohm

Chip Arrays Type

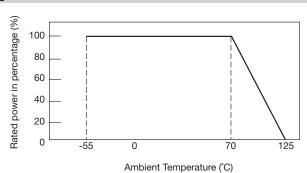
CA Y 16 - 103



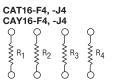


CAT/CAY 16 Series - Chip Resistor Arrays

Derating Curve



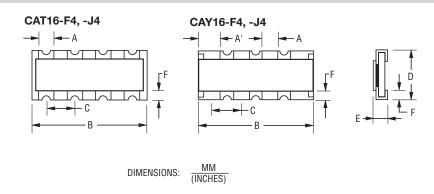
Schematics



Dimensions

Model	А	A'	В	С	D	E	F
CAT16-F4	$\frac{0.40 \pm 0.15}{(.016 \pm .006)}$	_	$\frac{3.20 \pm 0.20}{(.126 \pm .008)}$	$\frac{0.80 \pm 0.10}{(.032 \pm .004)}$	$\frac{1.60 \pm 0.20}{(.063 \pm .008)}$	$\frac{0.50 \pm 0.10}{(.020 \pm .004)}$	$\frac{0.30 \pm 0.15}{(.012 \pm .006)}$
CAT16-J4	$\frac{0.40 \pm 0.15}{(.016 \pm .006)}$	_	$\frac{3.20 \pm 0.20}{(.126 \pm .008)}$	$\begin{array}{c} 0.80 \pm 0.10 \\ (.032 \ \pm \pm \ .004) \end{array}$	$\frac{1.55 \pm 0.25}{(.061 \pm .0098)}$	$\frac{0.50 \pm 0.10}{(.020 \pm .004)}$	$\frac{0.30 \pm 0.20}{(.012 \pm .008)}$
CAY16-F4, -J4	$\frac{0.50 \pm 0.15}{(.020 \pm .006)}$	$\frac{0.70 \pm 0.10}{(.027 \pm .004)}$	3.20 ± 0.20 (.126 ± .008)	$\frac{0.80 \pm 0.05}{(.032 \pm .002)}$	$\frac{1.60 \pm 0.20}{(.063 \pm .008)}$	$\frac{0.50 \pm 0.10}{(.020 \pm .004)}$	$\frac{0.30 \pm 0.20}{(.012 \pm .008)}$

Configurations

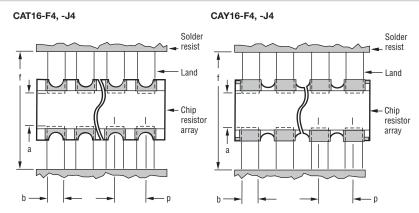


MM

(INCHES)

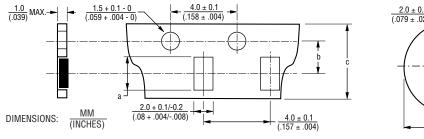
DIMENSIONS:

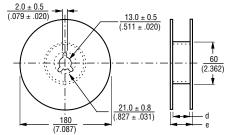
Land Patterns



f Model а b р 0.7 to 0.9 0.4 to 0.45 0.80 2.2 to 2.6 CAT16-F4, -J4 (.087 to .102) (.028 to .035) (.016 to .0178) (.032)0.7 to 0.9 0.4 to 0.45 0.80 2.4 to 2.8 CAY16-F4, -J4 (.028 to .035) (.016 to .0178) (.032)(.094 to .11)

Packaging Dimensions





Model	а	b	С	d	е
CAT16-F4, -J4 & CAY16-F4, J4	$\frac{3.60 \pm 0.20}{(.142 \pm .008)}$	$\frac{3.50 \pm .005}{(.138 \pm .004)}$	$\frac{8.0 \pm 0.3}{(.315 \pm .012)}$	$\frac{9.0 \pm 0.3}{(.354 \pm .012)}$	$\frac{11.4 \pm 1.0}{(.449 \pm .040)}$

- · 5,000 pcs. per reel
- Paper tape

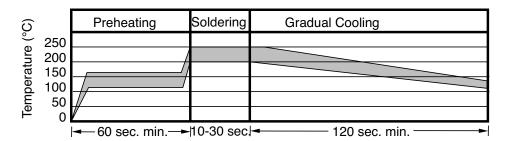
Chip Resistor Arrays - Application Note

Component Placement

- a. Reduce the mechanical stress to a minimum during and after placing of the unit in order not to damage the terminals and protective coating.
- b. Misplacement of components may cause solder bridges.

Soldering

- a. Reflow soldering: Recommendation is shown in the following chart.
- b. Wave soldering: Recommendation according to IEC standards.
- c. Hand soldering: Don't touch the protective coating of the part. Solder within 3 seconds when the temperature is over 280 °C.



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