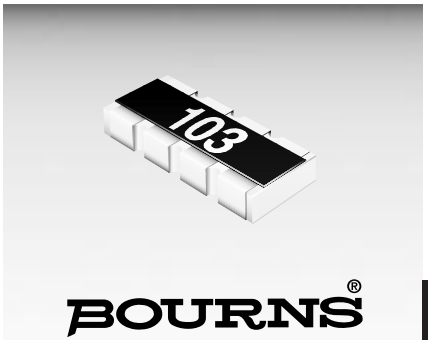


Features

- Convex and concave terminals
- 2 and 4 elements available
- Resistance tolerance 5% and 1%
- E12 series from 10 ohms to 1 megohm

BOURNS®

CAT/CAY Series - Chip Resistor Arrays

Specifications

Requirement	Characteristics	Test Method
Short Time Overload	±1%	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	±2%	1000 hours
Load Life	±2%	1000 hours

Characteristics

Characteristics	CAT16/CAY16
Number of Elements	2,4
Power Rating	62mW
Resistance Tolerance	5%, 1%
Resistance Range E12	10 ohms - 1 megohm
T.C.R.	±200ppm/°C
Max. Working Voltage	50V
Operating Temp. Range	-55°C - 125°C
Rating Temperature	+70°C

How To Order

CA Y 16 - 103 J 4

Chip Arrays

Type
- T = Concave
- Y = Convex

Models
- 16 = 0603 Chip

Resistance
- 103 = 10K
- 1003 = 10K

Tolerance
- F = 1%
- J = 5%

Resistors
- 2 = 2 pcs.
- 4 = 4 pcs.

Dimensions

Model	Number Of Elements	A	B	C	D	E	F
CAT16	2	0.5±0.15 (.02±.006)	1.6±0.2 (.063±.008)	0.8±0.05 (.032±.002)	1.6±0.2 (.063±.008)	0.5±0.1 (.02±.004)	0.3±0.15 (.012±.006)
CAY16 CAT 16	4*		3.2±0.2 (.126±.008)				

*5% preferred, 1% available

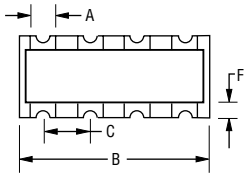
Tape And Reel Packaging

Model Number	Pieces per Reel	
	2r	4r
CAT16*/CAY16*	5,000	5,000

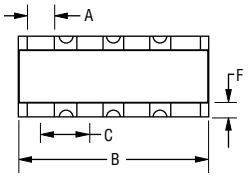
*Plastic Reel with Paper Tape

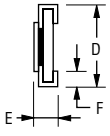
Configuration

CAT



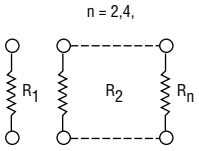
CAY





DIMENSIONS ARE: METRIC / (INCHES)

Schematic

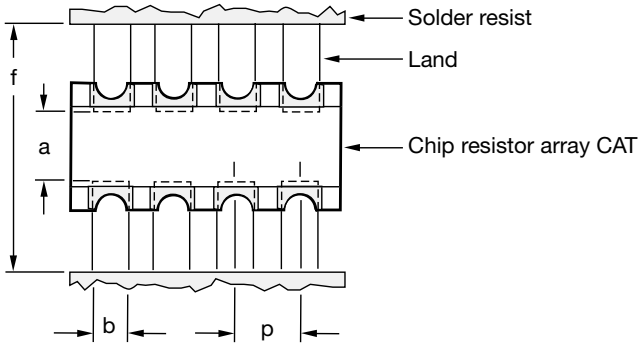


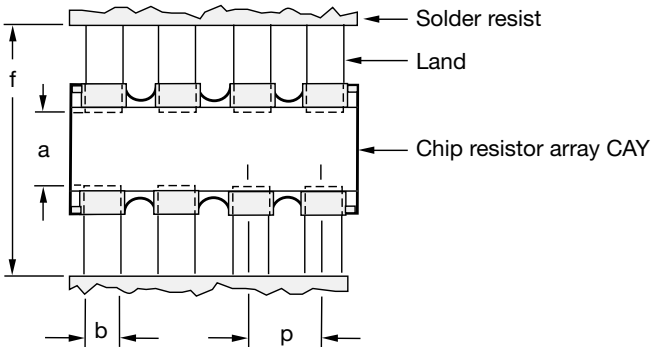
Chip Resistor Arrays - Application Note

BOURNS®

1. Land Pattern Design

Recommended land pattern design for the chip arrays shown in the following illustration.





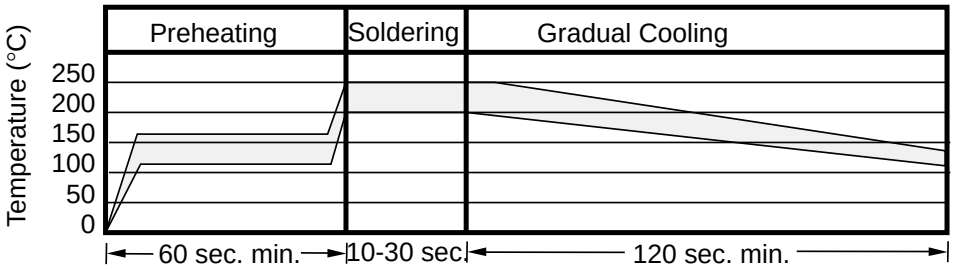
Model	a	b	p	f
CAT16..4	0.7 to 0.9 (.028 to .035)	0.4 to 0.45 (.016 to .0178)	0.80 (.032)	2.0 to 2.2 (.079 to .087)
CAY16..4	0.7 to 0.9 (.028 to .035)	0.4 to 0.45 (.016 to .0178)	0.80 (.032)	2.4 to 2.8 (.094 to .11)

2. 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.

3. Soldering

a. Reflow soldering: Recommendation is shown in the following chart.
b. Hand soldering: Don't touch the protective coating of the part. Solder within 3 seconds when the temperature is over 280ºC.



4. Cleaning

A recommended cleaning method is shown in the following table.

DIMENSIONS ARE: METRIC / (INCHES)

Solvents	Cleaning Condition	
	Dipping	Ultrasonic Wave Washing
Isopropyl alcohol	5 minutes maximum	1 minute maximum Power: 20W/L Frequency: 10 to 100kHz