

Features

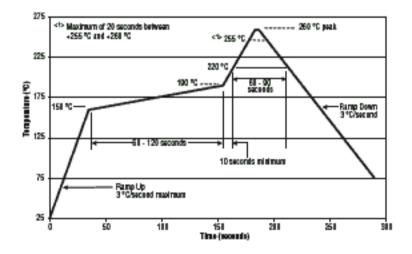
- Lead free version available (see How to Order "Termination" options)
- RoHS compliant*
- Convex and concave terminals
- 2, 4 or 8 isolated elements available
- Resistance tolerance ±1 % and ±5 %
- Resistance range: 10 ohms to 1 megohm

CAT/CAY 16 Series - Chip Resistor Arrays

Specifications				
Requirement	Characteristics	Test Method		
Short Time Overload	±1 % (±2 % for CAT16-J8 & CAY16-J8)	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 % (±3 % for CAT16-J8 & CAY16-J8)	1000 hours		
Load Life	±2 % (±3 % for CAT16-J8 & CAY16-J8)	1000 hours		

Characteristics				
Characteristics	CAT16/CAY16			
Number of Elements	2 (J2), 4 (F4, J4), 6 (J8)			
Power Rating Per Resistor	62 mW (31 mW for CAY16-J6)			
Resistance Tolerance	±1 %, ±5 %			
Resistance Range E24 (J), E96 + E24 (F)	10 ohms - 1 megohm			
Max. Working Voltage	50 V (25 V for CAY16-J6)			
Operating Temp. Range	-55 °C - 125 °C			
Rating Temperature	+70 °C			

Soldering Profile for Lead Free Chip Resistors and Arrays



How To Order
CAY 16 - 103 J 4_
Chip Arraya
Type • T = Concave • Y = Convex
Modela • J2 = 0606 Package Size • F4, J4 = 1206 Package Size • J8 = 2406 Package Size for CAT16; 1506 Package Size for CAY16
Pesistance Code • 103 – 10 K ohms • 1003 – 100 K ohms (1 % tolerance)
Resistance Tolerance • J = ±5 % • F = ±1 % (4 resistor package only)
Resistors • 2 – 2 loclated Resistors • 4 – 4 loclated Resistors • 8 – 8 loclated Resistors
Terminations" • LF = Tin-plated (lead free) • Dire to - Solder detect

Blank = Solder-plated

"Model CAY16-J6 is available only with tin-plated terminations.

Schematics	
CAT16-J2 CAY16-J2 0 0 % R1 & R2 0 0	CAT16-F4, -J4 CAY16-F4, -J4 O O O O I I I I I I R1 & R2 & R8 & R4 I I I I I I I O O O O O
CAT16-JB CAY16-JB O O O O \$R ₁ \$R ₂ \$R ₃ \$R O O O O	

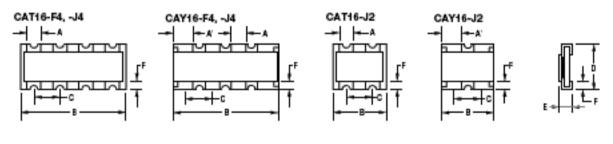
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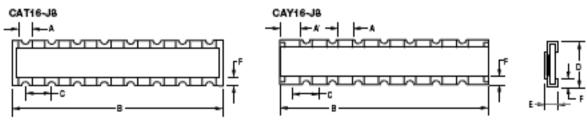
BOURNS®

Dimensions							
Model	А	Α'	в	с	D	Е	F
CAT16-F4, -J4	0.40±0.15 (.016±.006)	_	3.20±0.20 (.126±.008)	0.80±0.05 (.032±.002)	<u>1.60±0.20</u> (.063±.008)	0.50±0.10 (.020±.004)	0.30±0.15 (.012±.006)
GAY16-F4, ~J4	0.50±0.15 (.002±.006)	0.70±0.10 (.027±.008)	3.20±0.20 (.126±.008)	0.80±0.05 (.032±.002)	1.60±0.20 (.063±.008)	0.50±0.10 (.020±.004)	0.30±0.20 (.012±.008)
CAT16-J2	0.40±0.15 (.016±.006)	_	<u>1.60±0.15</u> (.063±.006)	0.80±0.05 (.032±.002)	<u>1.60±0.15</u> (.063±.006)	0.60±0.15 (.024±.006)	0.30±0.20 (.012±.008)
CAY16-J2	_	0.60±0.15 (.024±.006)	<u>1.60±0.15</u> (.063±.006)	0.80±0.05 (.032±.002)	<u>1.60±0.15</u> (.063±.006)	0.50±0.10 (.020±.004)	0.25±0.10 (.010±.004)
CAT16-J8	0.40±0.15 (.016±.006)	_	6.40±0.20 (.252±.008)	0.80±0.15 (.032±.006)	<u>1.60±0.20</u> (.063±.008)	0.60±0.15 (.024±.006)	0.30±0.20 (.012±.008)
CAY16-J8	0.30±0.15 (.012±.006)	0.30±0.15 (.012±.006)	3.80±0.20 (.15±.008)	0.50±0.05 (.02±.002)	1.60±0.20 (.063±.008)	0.50±0.10 (.02±.004)	0.30±0.15 (.012±.006)

DIMENSIONS ARE: MM (INCHES)

Configurations

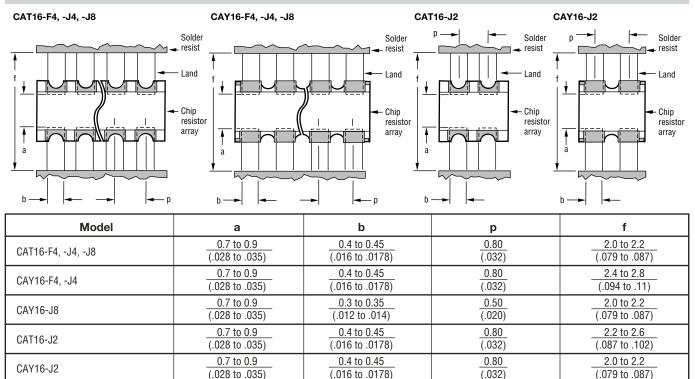




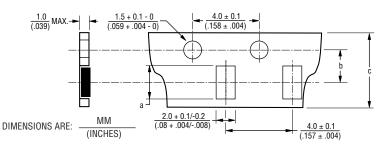
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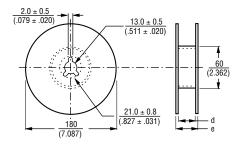
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Land Patterns



Packaging Dimensions





Model	а	b	С	d	е
CAT16-F4, -J4 & CAY16-F4, J4	$\frac{3.40 \pm 0.10}{(.134 \pm .004)}$	3.50 ± .005 (.138 ± .004)	$\frac{8.0 \pm 0.3}{(.315 \pm .012)}$	$\frac{9.0 \pm 0.3}{(.354 \pm .012)}$	$\frac{11.4 \pm 1.0}{(.449 \pm .040)}$
CAT16-J2 & CAY16-J2	$\frac{1.80 \pm 0.10}{(.070 \pm .004)}$	<u>3.50 ± .005</u> (.138 ± .004)	8.0 ± 0.3 (.315 ± .012)	<u>9.0 ± 0.3</u> (.354 ± .012)	$\frac{11.4 \pm 1.0}{(.449 \pm .040)}$
CAT16-J8	$\frac{6.90 \pm 0.20}{(.272 \pm .008)}$	5.50 ± 0.10 (.217 ± .004)	<u>12.0 ± 0.2</u> (.472 ± .008)	<u>13.0 ± 0.2</u> (.512 ± .008)	$\frac{15.4 \pm 1.0}{(.606 \pm .040)}$
CAY16-J8	$\frac{4.10 \pm 0.15}{(.161 \pm .012)}$	3.50 ± 0.05 (.138 ± .002)	$\frac{8.0 \pm 0.3}{(.315 \pm .012)}$	9.0 ± 0.3 (.354 ± .012)	$\frac{11.4 \pm 1.0}{(.449 \pm .040)}$

• 5,000 pcs. per reel (J2, J4, CAY16-J8)

4,000 pcs. per reel (CAT16-J8)

• Paper tape