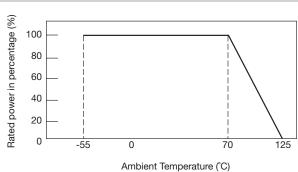
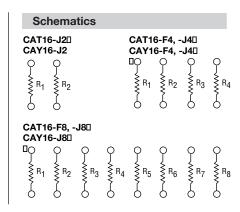
# **CAT/CAY 16 Series - Chip Resistor Arrays**

#### **Derating Curve**

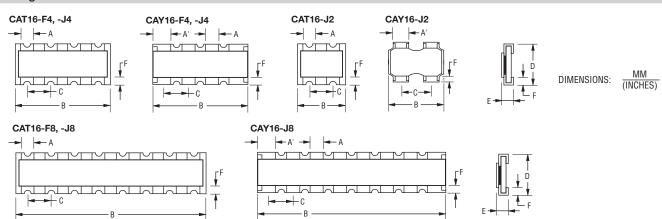




#### Dimensions

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	$\frac{0.40 \pm 0.15}{(.016 \pm .006)}$	_	$\frac{3.20 \pm 0.20}{(.126 \pm .008)}$	$\begin{array}{c} 0.80 \pm 0.10 \\ (.032 \pm \pm .004) \end{array}$	1.55 ± 0.25 (.061 ± .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)	$\frac{0.80 \pm 0.05}{(.032 \pm .002)}$	$\frac{1.60 \pm 0.20}{(.063 \pm .008)}$	$\frac{0.50 \pm 0.10}{(.020 \pm .004)}$	$\frac{0.30 \pm 0.20}{(.012 \pm .008)}$
CAT16-J2	$\frac{0.40 \pm 0.15}{(.016 \pm .006)}$	_	$\frac{1.60 \pm 0.15}{(.063 \pm .006)}$	$\frac{0.80 \pm 0.05}{(.032 \pm .002)}$	1.60 ± 0.15 (.063 ± .006)	$\frac{0.60 \pm 0.15}{(.024 \pm .006)}$	$\frac{0.30 \pm 0.20}{(.012 \pm .008)}$
CAY16-J2	_	$\frac{0.60 \pm 0.15}{(.024 \pm .006)}$	$\frac{1.60 \pm 0.15}{(.063 \pm .006)}$	$\frac{0.76 \pm 0.10}{(.030 \pm .004)}$	$\frac{1.60 \pm 0.15}{(.063 \pm .006)}$	0.45 +0.15/-0.10 (.018 +0.006/-0.004)	$\frac{0.30 \pm 0.20}{(.012 \pm .008)}$
CAT16-F8, -J8	0.40 ± 0.15 (.016 ± .006)	_	$\frac{6.40 \pm 0.20}{(.252 \pm .008)}$	$\frac{0.80 \pm 0.15}{(.032 \pm .006)}$	$\frac{1.60 \pm 0.20}{(.063 \pm .008)}$	$\frac{0.60 \pm 0.15}{(.024 \pm .006)}$	$\frac{0.30 \pm 0.20}{(.012 \pm .008)}$
CAY16-J8	$\frac{0.30 \pm 0.15}{(.012 \pm .006)}$	$\frac{0.30 \pm 0.15}{(.012 \pm .006)}$	3.80 ± 0.20 (.15 ± .008)	$\frac{0.50 \pm 0.05}{(.02 \pm .002)}$	$\frac{1.60 \pm 0.20}{(.063 \pm .008)}$	$\frac{0.50 \pm 0.10}{(.020 \pm .004)}$	$\frac{0.30 \pm 0.15}{(.012 \pm .006)}$

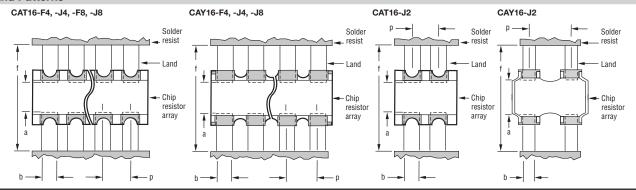
#### Configurations



# **CAT/CAY 16 Series - Chip Resistor Arrays**

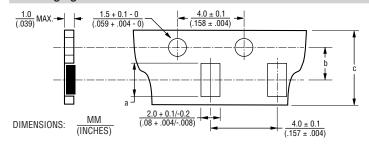
## **BOURNS**®

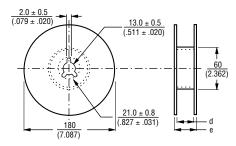
#### **Land Patterns**



Model	а	b	р	f
CAT16-F4, -J4, -F8, -J8	0.7 to 0.9	0.4 to 0.45	<u>0.80</u>	2.2 to 2.6
	(.028 to .035)	(.016 to .0178)	(.032)	(.087 to .102)
CAY16-F4, -J4	0.7 to 0.9	0.4 to 0.45	<u>0.80</u>	2.4 to 2.8
	(.028 to .035)	(.016 to .0178)	(.032)	(.094 to .11)
CAY16-J8	0.7 to 0.9	0.3 to 0.35	<u>0.50</u>	2.0 to 2.2
	(.028 to .035)	(.012 to .014)	(.020)	(.079 to .087)
CAT16-J2	0.7 to 0.9	0.4 to 0.45	<u>0.80</u>	2.2 to 2.6
	(.028 to .035)	(.016 to .0178)	(.032)	(.087 to .102)
CAY16-J2	0.7 to 0.9	0.4 to 0.5	<u>0.80</u>	2.0 to 2.6
	(.028 to .035)	(.016 to .020)	(.032)	(.079 to .102)

#### **Packaging Dimensions**





Model	а	b	С	d	е
CAT16-F4, -J4 & CAY16-F4, J4	$\frac{3.60 \pm 0.20}{(.142 \pm .008)}$	$\frac{3.50 \pm .005}{(.138 \pm .004)}$	$\frac{8.0 \pm 0.3}{(.315 \pm .012)}$	$\frac{9.0 \pm 0.3}{(.354 \pm .012)}$	$\frac{11.4 \pm 1.0}{(.449 \pm .040)}$
CAT16-J2 & CAY16-J2	$\frac{1.80 \pm 0.10}{(.070 \pm .004)}$	$\frac{3.50 \pm .005}{(.138 \pm .004)}$	$\frac{8.0 \pm 0.3}{(.315 \pm .012)}$	$\frac{9.0 \pm 0.3}{(.354 \pm .012)}$	$\frac{11.4 \pm 1.0}{(.449 \pm .040)}$
CAT16-F8, -J8	$\frac{6.90 \pm 0.20}{(.272 \pm .008)}$	$\frac{5.50 \pm 0.10}{(.217 \pm .004)}$	$\frac{12.0 \pm 0.2}{(.472 \pm .008)}$	$\frac{13.0 \pm 0.2}{(.512 \pm .008)}$	$\frac{15.4 \pm 1.0}{(.606 \pm .040)}$
CAY16-J8	$\frac{4.10 \pm 0.15}{(.161 \pm .012)}$	$\frac{3.50 \pm 0.05}{(.138 \pm .002)}$	$\frac{8.0 \pm 0.3}{(.315 \pm .012)}$	$\frac{9.0 \pm 0.3}{(.354 \pm .012)}$	$\frac{11.4 \pm 1.0}{(.449 \pm .040)}$

 <sup>5,000</sup> pcs. per reel (J2, J4, CAY16-J8)
 4,000 pcs. per reel (CAT16-F8, -J8)

Paper tape

REV. 12/20

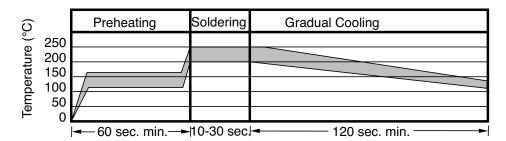
# **Chip Resistor Arrays - Application Note**

#### **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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CAT16-150J4 CAT16-560J4 CAT16-240J4 CAT16-510J4 CAT16-220J4 CAY16-6801F4 CAY16-J4-LAB2 CAY16-6040F4 CAT16-301J4 CAY16-183J4 CAT16-153J4LF CAY16-683J8LF CAY16-183J8LF CAY16-301J4 CAY16-1002F4 CAT16-333J4 CAT16-242J4 CAY16-183J4LF CAY16-120J8LF CAY16-220J8LF CAY16-274J4 CAY16-683J4LF CAY16-333J4 CAT16-270J4 CAY16-334J8LF CAY16-821J4LF CAT16-1003F4 CAY16-621J4 CAY16-153J4 CAT16-270J4 CAY16-334J8LF CAY16-821J4LF CAT16-1003F4 CAY16-621J4 CAY16-153J4 CAT16-270JF4 CAY16-91R0F4 CAT16-1690F4LF CAY16-222J8LF CAY16-122J8LF CAY16-102J4GLF CAT16-120J4 CAT16-100J8LF CAY16-472J4GLF CAY16-222J4GLF CAY16-120JF4 CAY16-102J4GLF CAT16-120J4 CAT16-000J4 CAY16-124J4 CAT16-2703F4LF CAT16-1003F4LF CAY16-86R6F4 CAT16-682J2 CAT16-682J4 CAT16-103J4 CAT16-103J8LF CAY16-4751F4 CAT16-3R0J4 CAT16-3R0J2 CAY16-203J4LF CAY16-5491F4 CAT16-000J4G CAT16-151J8LF CAY16-151J4LF CAY16-1210F4LF CAY16-5110F4LF CAY16-5491F4 CAT16-000J4G CAT16-151J8LF CAY16-224J4 CAT16-1800F4LF CAY16-103J4G CAY16-2430F4 CAT16-360J4 CAY16-105J4 CAY16-330J4LF CAT16-681J8LF CAY16-430J4LF CAY16-103J4G CAY16-2430F4 CAT16-360J4 CAY16-105J4 CAY16-202J4 CAT16-390J4 CAY16-120J4 CAT16-2400F4LF CAY16-431J4 CAY16-6040F4LF CAY16-130J4LF CAY16-4700F4LF CAT16-390J4 CAY16-120J4 CAT16-2400F4LF CAT16-2000F4LF CAT16-1500F4LF CAT16-1500F4LF CAY16-1500F4LF CAY16-1500F4LF