BOURNS

PRODUCT OBSOLESCENCE MEMO CHIP RESISTORS AND ARRAYS



Select Bourns® Chip Resistor Arrays to be Discontinued

Certain CAT16, CAT25, CAY16, CAY17 Models

Riverside, California – March 31, 2021 – In accordance with our ongoing product lifecycle management procedures, Bourns will transfer select part numbers from the Model CAT16, CAT25, CAY16 and CAY17 Series Chip Resistor Arrays to an End of Product Life status on December 31, 2021. A lack of sales volume and diminishing demand necessitates this action. A list of discontinued part numbers and their recommended replacement part numbers (if available) can be found in the table on the next pages. Affected data sheets are available at www.bourns.com/products/resistors/chip-resistor-arrays.

Only the listed part numbers are being discontinued. Other part numbers in the Model CAT16, CAT25, CAY16 and CAY17 product families will continue to be supported.

Customers must notify Bourns in writing within 30 days of publication of this notification if they consider the discontinued product to be sole sourced by Bourns. In such cases, Bourns will work with customers to negotiate an appropriate End of Product Life purchase for the discontinued products. Orders for these discontinued products during this End of Product Life transition period will be considered non-cancellable. Products purchased during this End of Product Life transition period will be considered non-returnable and will be covered by Bourns' standard warranty.

Please plan for the following deadlines:

Last time buy date: *December 31, 2021* Last time ship date: *December 31, 2022*

If you have any questions or need additional information, please feel free to contact <u>Customer Service/</u><u>Inside Sales</u>.

CAT16 Series			
Obsolete Part Number	Replacement Part Number	Obsolete Part Number	Replacement Part Number
CAT16-000J2LF	no replacement	CAT16-121J2LF	no replacement
CAT16-000J4GLF	CAT16-000J4LF	CAT16-121J8LF	no replacement
CAT16-000J8LF	no replacement	CAT16-130J4GLF	CAT16-130J4LF
CAT16-1001F8LF	no replacement	CAT16-133J4HLF	no replacement
CAT16-1002F8LF	no replacement	CAT16-1500F8LF	no replacement
CAT16-1003F8LF	no replacement	CAT16-1502F8LF	no replacement
CAT16-100J2GLF	no replacement	CAT16-1503F8LF	no replacement
CAT16-100J2LF	no replacement	CAT16-150J2LF	no replacement
CAT16-100J4GLF	<u>CAT16-100J4LF</u>	CAT16-151J8LF	no replacement
CAT16-100J8LF	no replacement	CAT16-153J4HLF	no replacement
CAT16-101J2LF	no replacement	CAT16-153J8LF	no replacement
CAT16-101J4GLF	<u>CAT16-101J4LF</u>	CAT16-160J8LF	no replacement
CAT16-101J8LF	no replacement	CAT16-161J8LF	no replacement
CAT16-102J2LF	no replacement	CAT16-180J8LF	no replacement
CAT16-102J4GLF	<u>CAT16-102J4LF</u>	CAT16-181J8LF	no replacement
CAT16-102J8LF	no replacement	CAT16-2002F8LF	no replacement
CAT16-103J2LF	no replacement	CAT16-201J8LF	no replacement
CAT16-103J4GLF	<u>CAT16-103J4LF</u>	CAT16-202J2LF	no replacement
CAT16-103J8LF	no replacement	CAT16-202J8LF	no replacement
CAT16-104J2LF	no replacement	CAT16-203J8LF	no replacement
CAT16-104J4HLF	no replacement	CAT16-220J2GLF	no replacement
CAT16-104J8LF	no replacement	CAT16-220J2LF	no replacement
CAT16-105J2LF	no replacement	CAT16-220J4GLF	no replacement
CAT16-105J8LF	no replacement	CAT16-220J8LF	no replacement
CAT16-1201F8LF	no replacement	CAT16-221J2LF	no replacement
CAT16-120J2LF	no replacement	CAT16-221J8LF	no replacement

CAT16 Series (continued)			
Obsolete Part Number	Replacement Part Number	Obsolete Part Number	Replacement Part Number
CAT16-222J2LF	no replacement	CAT16-3R0J2LF	no replacement
CAT16-222J8LF	no replacement	CAT16-430J8LF	no replacement
CAT16-223J2LF	no replacement	CAT16-4701F8LF	no replacement
CAT16-223J8LF	no replacement	CAT16-4702F8LF	no replacement
CAT16-224J8LF	no replacement	CAT16-470J2LF	no replacement
CAT16-22R1F8LF	no replacement	CAT16-470J8LF	no replacement
CAT16-240J4GLF	<u>CAT16-240J4LF</u>	CAT16-471J8LF	no replacement
CAT16-270J4GLF	CAT16-270J4LF	CAT16-472J2LF	no replacement
CAT16-270J8LF	no replacement	CAT16-472J8LF	no replacement
CAT16-271J4HLF	no replacement	CAT16-473J2LF	no replacement
CAT16-271J8LF	no replacement	CAT16-473J8LF	no replacement
CAT16-272J8LF	no replacement	CAT16-47R0F8LF	no replacement
CAT16-273J2LF	no replacement	CAT16-49R9F4GLF	CAT16-49R9F4LF
CAT16-27R0F8LF	no replacement	CAT16-49R9F8LF	no replacement
CAT16-3300F8LF	no replacement	CAT16-510J2LF	no replacement
CAT16-3301F8LF	no replacement	CAT16-510J4GLF	CAT16-510J4LF
CAT16-330J2LF	no replacement	CAT16-510J8LF	no replacement
CAT16-330J4GLF	<u>CAT16-330J4LF</u>	CAT16-512J8LF	no replacement
CAT16-330J8LF	no replacement	CAT16-51R0F8LF	no replacement
CAT16-331J2LF	no replacement	CAT16-5601F8LF	no replacement
CAT16-331J4GLF	<u>CAT16-331J4LF</u>	CAT16-560J8LF	no replacement
CAT16-331J8LF	no replacement	CAT16-562J8LF	no replacement
CAT16-332J8LF	no replacement	CAT16-563J8LF	no replacement
CAT16-333J8LF	no replacement	CAT16-5R1J4GLF	CAT16-5R1J4LF
CAT16-33R0F8LF	no replacement	CAT16-6042F8LF	no replacement
CAT16-390J2LF	no replacement	CAT16-6043F8LF	no replacement
CAT16-392J8LF	no replacement	CAT16-61R9F8LF	no replacement

CAT16 Series (continued)			
Obsolete Part Number	Replacement Part Number	Obsolete Part Number	Replacement Part Number
CAT16-6490F8LF	no replacement	CAT16-LV2F6LFZ1	no replacement
CAT16-680J8LF	no replacement	CAT16-LV4F12LF	no replacement
CAT16-681J2LF	no replacement	CAT16-LV4F12LFZ1	no replacement
CAT16-681J8LF	no replacement	CAT16-PC2F6LF	no replacement
CAT16-682J2LF	no replacement	CAT16-PC2F6LFZ1	no replacement
CAT16-682J8LF	no replacement	CAT16-PC4F12LF	no replacement
CAT16-684J8LF	no replacement	CAT16-PC4F12LFZ1	no replacement
CAT16-750J2LF	no replacement	CAT16-PC5F12LF	no replacement
CAT16-822J8LF	no replacement	CAT16-PT2F2LF	no replacement
CAT16-LV2F6LF	no replacement	CAT16-PT4F4LF	no replacement
CAT16-LV2F6LFFZ1	no replacement		

CAT25 Series			
Obsolete Part Number	Replacement Part Number	Obsolete Part Number	Replacement Part Number
CAT25-100JALF	no replacement	CAT25-130JALF	no replacement
CAT25-101JALF	no replacement	CAT25-131JALF	no replacement
CAT25-102JALF	no replacement	CAT25-133JALF	no replacement
CAT25-103JALF	no replacement	CAT25-141JALF	no replacement
CAT25-103JALFZ1	no replacement	CAT25-150JALF	no replacement
CAT25-104JALF	no replacement	CAT25-151JALF	no replacement
CAT25-105JALF	no replacement	CAT25-152JALF	no replacement
CAT25-106JALF	no replacement	CAT25-153JALF	no replacement
CAT25-120JALF	no replacement	CAT25-154JALF	no replacement
CAT25-121JALF	no replacement	CAT25-155JALF	no replacement
CAT25-122JALF	no replacement	CAT25-161JALF	no replacement
CAT25-123JALF	no replacement	CAT25-180JALF	no replacement
CAT25-124JALF	no replacement	CAT25-181JALF	no replacement
CAT25-125JALF	no replacement	CAT25-182JALF	no replacement

_

CAT25 Series (continued)			
Obsolete Part Number	Replacement Part Number	Obsolete Part Number	Replacement Part Number
CAT25-183JALF	no replacement	CAT25-335JALF	no replacement
CAT25-184JALF	no replacement	CAT25-390JALF	no replacement
CAT25-185JALF	no replacement	CAT25-391JALF	no replacement
CAT25-201JALF	no replacement	CAT25-392JALF	no replacement
CAT25-202JALF	no replacement	CAT25-393JALF	no replacement
CAT25-203JALF	no replacement	CAT25-394JALF	no replacement
CAT25-220JALF	no replacement	CAT25-395JALF	no replacement
CAT25-221JALF	no replacement	CAT25-430JALF	no replacement
CAT25-222JALF	no replacement	CAT25-431JALF	no replacement
CAT25-223JALF	no replacement	CAT25-470JALF	no replacement
CAT25-224JALF	no replacement	CAT25-471JALF	no replacement
CAT25-225JALF	no replacement	CAT25-472JALF	no replacement
CAT25-240JALF	no replacement	CAT25-473JALF	no replacement
CAT25-241JALF	no replacement	CAT25-474JALF	no replacement
CAT25-270JALF	no replacement	CAT25-475JALF	no replacement
CAT25-271JALF	no replacement	CAT25-500JALF	no replacement
CAT25-272JALF	no replacement	CAT25-510JALF	no replacement
CAT25-273JALF	no replacement	CAT25-511JALF	no replacement
CAT25-274JALF	no replacement	CAT25-512JALF	no replacement
CAT25-275JALF	no replacement	CAT25-513JALF	no replacement
CAT25-301JALF	no replacement	CAT25-560JALF	no replacement
CAT25-302JALF	no replacement	CAT25-561JALF	no replacement
CAT25-330JALF	no replacement	CAT25-562JALF	no replacement
CAT25-331JALF	no replacement	CAT25-563JALF	no replacement
CAT25-332JALF	no replacement	CAT25-564JALF	no replacement
CAT25-333JALF	no replacement	CAT25-565JALF	no replacement
CAT25-334JALF	no replacement	CAT25-680JALF	no replacement

_/ //

CAT25 Series (continued)			
Obsolete Part Number	Replacement Part Number	Obsolete Part Number	Replacement Part Number
CAT25-681JALF	no replacement	CAT25-820JALF	no replacement
CAT25-682JALF	no replacement	CAT25-821JALF	no replacement
CAT25-683JALF	no replacement	CAT25-822JALF	no replacement
CAT25-684JALF	no replacement	CAT25-823JALF	no replacement
CAT25-685JALF	no replacement	CAT25-824JALF	no replacement
CAT25-750JALF	no replacement	CAT25-825JALF	no replacement
	CAY16	Series	
Obsolete Part Number	Replacement Part Number	Obsolete Part Number	Replacement Part Number
CAY16-000J2LF	no replacement	CAY16-150J8LF	no replacement
CAY16-000J8LF	no replacement	CAY16-151J8LF	no replacement
CAY16-100J2LF	no replacement	CAY16-152J2LF	no replacement
CAY16-100J8LF	no replacement	CAY16-152J8LF	no replacement
CAY16-101J2LF	no replacement	CAY16-153J8LF	no replacement
CAY16-101J8LF	no replacement	CAY16-154J8LF	no replacement
CAY16-102J2LF	no replacement	CAY16-161J8LF	no replacement
CAY16-102J8LF	no replacement	CAY16-180J2LF	no replacement
CAY16-103J2LF	no replacement	CAY16-180J8LF	no replacement
CAY16-103J8LF	no replacement	CAY16-181J8LF	no replacement
CAY16-104J2LF	no replacement	CAY16-182J8LF	no replacement
CAY16-104J8LF	no replacement	CAY16-183J8LF	no replacement
CAY16-105J2LF	no replacement	CAY16-184J8LF	no replacement
CAY16-105J8LF	no replacement	CAY16-200J8LF	no replacement
CAY16-120J8LF	no replacement	CAY16-201J8LF	no replacement
CAY16-121J8LF	no replacement	CAY16-202J2LF	no replacement
CAY16-122J8LF	no replacement	CAY16-203J8LF	no replacement
CAY16-123J8LF	no replacement	CAY16-2200F4	no replacement
CAY16-124J8LF	no replacement	CAY16-220J2LF	no replacement

CAY16 Series (continued)			
Obsolete Part Number	Replacement Part Number	Obsolete Part Number	Replacement Part Number
CAY16-220J8LF	no replacement	CAY16-391J8LF	no replacement
CAY16-221J8LF	no replacement	CAY16-392J8LF	no replacement
CAY16-222J8LF	no replacement	CAY16-393J8LF	no replacement
CAY16-223J8LF	no replacement	CAY16-394J8LF	no replacement
CAY16-224J8LF	no replacement	CAY16-3R0J2LF	no replacement
CAY16-240J8LF	no replacement	CAY16-470J2LF	no replacement
CAY16-243J8LF	no replacement	CAY16-470J8LF	no replacement
CAY16-2702F8LF	no replacement	CAY16-471J2LF	no replacement
CAY16-270J8LF	no replacement	CAY16-471J8LF	no replacement
CAY16-271J2LF	no replacement	CAY16-472J2LF	no replacement
CAY16-271J8LF	no replacement	CAY16-472J8LF	no replacement
CAY16-272J8LF	no replacement	CAY16-473J2LF	no replacement
CAY16-273J8LF	no replacement	CAY16-473J8LF	no replacement
CAY16-274J8LF	no replacement	CAY16-474J2LF	no replacement
CAY16-300J8LF	no replacement	CAY16-474J8LF	no replacement
CAY16-330J8LF	no replacement	CAY16-510J8LF	no replacement
CAY16-331J8LF	no replacement	CAY16-560J8LF	no replacement
CAY16-332J8LF	no replacement	CAY16-561J8LF	no replacement
CAY16-333J8LF	no replacement	CAY16-680J8LF	no replacement
CAY16-334J8LF	no replacement	CAY16-820J8LF	no replacement
CAY16-390J8LF	no replacement		

)®

T

CAY17 Series			
Obsolete Part Number	Replacement Part Number	Obsolete Part Number	Replacement Part Number
CAY17-100JBLF	no replacement	CAY17-121JBLF	no replacement
CAY17-102JBLF	no replacement	CAY17-151JBLF	no replacement
CAY17-103JBLF	no replacement	CAY17-221JBLF	no replacement
CAY17-104JBLF	no replacement	CAY17-222JBLF	no replacement

CAY17 Series (continued)			
Obsolete Part Number	Replacement Part Number	Obsolete Part Number	Replacement Part Number
CAY17-333JBLF	no replacement	CAY17-510JBLF	no replacement
CAY17-433JBLF	no replacement	CAY17-511JBLF	no replacement
CAY17-472JBLF	no replacement	CAY17-560JBLF	no replacement



Features

- 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	±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	2 (J2), 4 (F4, J4), 8 (F8, J8)
Power Rating Per Resistor @ 70 °C	0.0625 W
Package Power Rating @ 70 °C	0.250 W (0.125 W for J2)
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 (25 V for CAY16-J8)
Max. Overload Voltage	100 V (50 V for CAY16-J8)
Operating Temp. Range	-55 °C - 125 °C

How To Order

CA Y 16 - 103	J 4 LF
Chip Arrays —	
Туре	
CAT16 = Concave Terminations	
CAY16 = Convex Terminations	
Resistance Code • For 1 % Tolerance:	
<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: 8252 = 82.5k ohms)	
For 5 % Tolerance:	
<10 ohms - "R" represents decimal point (example: 4R7 = 4.7 ohms)	
≥10 ohms - First two digits are signifi- cant, third digit represents number of zeros to follow (example: 474 = 470k ohms)	
• 000 = Zero Ohm Jumper	
Resistance Tolerance $-$ • J = ±5 % (2, 4, 8 resistor pkg. and for Zero Ohm Jumper)	
• F = ± 1 % (4 resistor pkg. and CAT16-F	8)
Resistors $-$ 2 = 2 Isolated Resistors • 4 = 4 Isolated Resistors • 8 = 8 Isolated Resistors Terminations $-$	
 LF = Tin-plated (RoHS compliant) 	

Packaging Size

J2 0606 Package Size F4, J4 1206 Package Size F8...... 2406 Package Size for CAT16 J8 2406 Package Size for CAT16; 1506 Package Size for CAY16

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

Soldering Profile for RoHS Compliant Chip Resistors and Arrays



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.

The products described herein and this document are subject to specific legal disclaimers as set forth on the last page of this document, and at www.bourns.com/docs/legal/disclaimer.pdf.

CAT/CAY 16 Series - Chip Resistor Arrays

BOURNS



Schematics					
CAT16-J2□ CAY16-J2	CAT16-F4, -J4□ CAY16-F4, -J4□				
$ \begin{array}{c} & \\ & \\ & \\ & \\ & \\ & \\ & \\ & \\ & \\ & $	$\begin{bmatrix} \mathbf{I} & \mathbf{O} & \mathbf{O} & \mathbf{O} \\ \mathbf{R}_1 & \mathbf{R}_2 & \mathbf{R}_3 & \mathbf{R}_4 \\ \mathbf{O} & \mathbf{O} & \mathbf{O} & \mathbf{O} & \mathbf{O} \end{bmatrix}$				
CAT16-F8, -J8□ CAY16-J8□					
$\begin{bmatrix} \Box_{0} & O & O & O \\ \vdots & R_{1} & \xi & R_{2} & \xi & R_{3} \\ \vdots & O & O & O \\ \end{bmatrix}$	$\begin{array}{c} \begin{array}{c} \\ \\ \\ \\ \\ \\ \\ \\ \\ \end{array} \end{array} \xrightarrow{R_4} \begin{array}{c} \\ \\ \\ \\ \\ \\ \\ \\ \\ \end{array} \xrightarrow{R_5} \begin{array}{c} \\ \\ \\ \\ \\ \\ \\ \end{array} \xrightarrow{R_6} \begin{array}{c} \\ \\ \\ \\ \\ \\ \\ \\ \end{array} \xrightarrow{R_7} \begin{array}{c} \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \end{array} \xrightarrow{R_8} \begin{array}{c} \\ \\ \\ \\ \\ \\ \\ \end{array} \xrightarrow{R_8} \begin{array}{c} \\ \\ \\ \\ \\ \\ \\ \\ \\ \end{array} \xrightarrow{R_8} \begin{array}{c} \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \end{array} \xrightarrow{R_8} \begin{array}{c} \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \end{array} \xrightarrow{R_8} \begin{array}{c} \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\$				

Dimensions									
Model	A	A'	В	С	D	E	F		
CAT16-F4	$\frac{0.40 \pm 0.15}{(.016 \pm .006)}$	_	$\frac{3.20 \pm 0.20}{(.126 \pm .008)}$	$\frac{0.80 \pm 0.10}{(.032 \pm .004)}$	<u>1.60 ± 0.20</u> (.063 ± .008)	$\frac{0.50 \pm 0.10}{(.020 \pm .004)}$	$\frac{0.30 \pm 0.15}{(.012 \pm .006)}$		
CAT16-J4	$\frac{0.40 \pm 0.15}{(.016 \pm .006)}$	_	$\frac{3.20 \pm 0.20}{(.126 \pm .008)}$	$\frac{0.80 \pm 0.10}{(.032 \pm \pm .004)}$	$\frac{1.55 \pm 0.25}{(.061 \pm .0098)}$	$\frac{0.50 \pm 0.10}{(.020 \pm .004)}$	$\frac{0.30 \pm 0.20}{(.012 \pm .008)}$		
CAY16-F4, -J4	$\frac{0.50 \pm 0.15}{(.020 \pm .006)}$	$\frac{0.70 \pm 0.10}{(.027 \pm .004)}$	$\frac{3.20 \pm 0.20}{(.126 \pm .008)}$	$\frac{0.80 \pm 0.05}{(.032 \pm .002)}$	<u>1.60 ± 0.20</u> (.063 ± .008)	$\frac{0.50 \pm 0.10}{(.020 \pm .004)}$	$\frac{0.30 \pm 0.20}{(.012 \pm .008)}$		
CAT16-J2	$\frac{0.40 \pm 0.15}{(.016 \pm .006)}$	_	$\frac{1.60 \pm 0.15}{(.063 \pm .006)}$	$\frac{0.80 \pm 0.05}{(.032 \pm .002)}$	<u>1.60 ± 0.15</u> (.063 ± .006)	$\frac{0.60 \pm 0.15}{(.024 \pm .006)}$	$\frac{0.30 \pm 0.20}{(.012 \pm .008)}$		
CAY16-J2	-	$\frac{0.60 \pm 0.15}{(.024 \pm .006)}$	$\frac{1.60 \pm 0.15}{(.063 \pm .006)}$	$\frac{0.76 \pm 0.10}{(.030 \pm .004)}$	<u>1.60 ± 0.15</u> (.063 ± .006)	<u>0.45 +0.15/-0.10</u> (.018 +0.006/-0.004)	$\frac{0.30 \pm 0.20}{(.012 \pm .008)}$		
CAT16-F8, -J8	$\frac{0.40 \pm 0.15}{(.016 \pm .006)}$	_	$\frac{6.40 \pm 0.20}{(.252 \pm .008)}$	$\frac{0.80 \pm 0.15}{(.032 \pm .006)}$	<u>1.60 ± 0.20</u> (.063 ± .008)	$\frac{0.60 \pm 0.15}{(.024 \pm .006)}$	$\frac{0.30 \pm 0.20}{(.012 \pm .008)}$		
CAY16-J8	$\frac{0.30 \pm 0.15}{(.012 \pm .006)}$	$\frac{0.30 \pm 0.15}{(.012 \pm .006)}$	$\frac{3.80 \pm 0.20}{(.15 \pm .008)}$	$\frac{0.50 \pm 0.05}{(.02 \pm .002)}$	$\frac{1.60 \pm 0.20}{(.063 \pm .008)}$	<u>0.50 ± 0.10</u> (.020 ± .004)	$\frac{0.30 \pm 0.15}{(.012 \pm .006)}$		

Configurations



Specifications are subject to change without notice. Users should verify actual device performance in their specific applications. The products described herein and this document are subject to specific legal disclaimers as set forth on the last page of this document, and at <u>www.bourns.com/docs/legal/disclaimer.pdf</u>.

R

CAT/CAY 16 Series - Chip Resistor Arrays

BOURNS

Land Patterns



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	$\frac{4.10 \pm 0.15}{(.161 \pm .012)}$	$\frac{3.50 \pm 0.05}{(.138 \pm .002)}$	$\frac{8.0 \pm 0.3}{(.315 \pm .012)}$	$\frac{9.0 \pm 0.3}{(.354 \pm .012)}$	$\frac{11.4 \pm 1.0}{(.449 \pm .040)}$

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

4,000 pcs. per reel (CAT16-F8, -J8)

Paper tape

REV. 12/20

Specifications are subject to change without notice.

Users should verify actual device performance in their specific applications.

The products described herein and this document are subject to specific legal disclaimers as set forth on the last page of this document, and at www.bourns.com/docs/legal/disclaimer.pdf.

Chip Resistor Arrays - Application Note

BOURNS

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.



Legal Disclaimer Notice

This legal disclaimer applies to purchasers and users of Bourns[®] products manufactured by or on behalf of Bourns, Inc. and its affiliates (collectively, "Bourns").

Unless otherwise expressly indicated in writing, Bourns[®] products and data sheets relating thereto are subject to change without notice. Users should check for and obtain the latest relevant information and verify that such information is current and complete before placing orders for Bourns[®] products.

The characteristics and parameters of a Bourns[®] product set forth in its data sheet are based on laboratory conditions, and statements regarding the suitability of products for certain types of applications are based on Bourns' knowledge of typical requirements in generic applications. The characteristics and parameters of a Bourns[®] product in a user application may vary from the data sheet characteristics and parameters due to (i) the combination of the Bourns[®] product with other components in the user's application, or (ii) the environment of the user application itself. The characteristics and parameters of a Bourns[®] product also can and do vary in different applications and actual performance may vary over time. Users should always verify the actual performance of the Bourns[®] product in their specific devices and applications, and make their own independent judgments regarding the amount of additional test margin to design into their device or application to compensate for differences between laboratory and real world conditions.

Unless Bourns has explicitly designated an individual Bourns[®] product as meeting the requirements of a particular industry standard (e.g., ISO/TS 16949) or a particular qualification (e.g., UL listed or recognized), Bourns is not responsible for any failure of an individual Bourns[®] product to meet the requirements of such industry standard or particular qualification. Users of Bourns[®] products are responsible for ensuring compliance with safety-related requirements and standards applicable to their devices or applications.

Bourns[®] products are not recommended, authorized or intended for use in nuclear, lifesaving, life-critical or life-sustaining applications, nor in any other applications where failure or malfunction may result in personal injury, death, or severe property or environmental damage. Unless expressly and specifically approved in writing by two authorized Bourns representatives on a case-by-case basis, use of any Bourns[®] products in such unauthorized applications might not be safe and thus is at the user's sole risk. Life-critical applications include devices identified by the U.S. Food and Drug Administration as Class III devices and generally equivalent classifications outside of the United States.

Bourns expressly identifies those Bourns[®] standard products that are suitable for use in automotive applications on such products' data sheets in the section entitled "Applications." Unless expressly and specifically approved in writing by two authorized Bourns representatives on a case-by-case basis, use of any other Bourns[®] standard products in an automotive application might not be safe and thus is not recommended, authorized or intended and is at the user's sole risk. If Bourns expressly identifies a sub-category of automotive application in the data sheet for its standard products (such as infotainment or lighting), such identification means that Bourns has reviewed its standard product and has determined that if such Bourns[®] standard product is considered for potential use in automotive applications, it should only be used in such sub-category of automotive applications. Any reference to Bourns[®] standard product in the data sheet as compliant with the AEC-Q standard or "automotive grade" does not by itself mean that Bourns has approved such product for use in an automotive application.

Bourns[®] standard products are not tested to comply with United States Federal Aviation Administration standards generally or any other generally equivalent governmental organization standard applicable to products designed or manufactured for use in aircraft or space applications. Bourns expressly identifies Bourns[®] standard products that are suitable for use in aircraft or space applications on such products' data sheets in the section entitled "Applications." Unless expressly and specifically approved in writing by two authorized Bourns representatives on a case-by-case basis, use of any other Bourns[®] standard product in an aircraft or space application might not be safe and thus is not recommended, authorized or intended and is at the user's sole risk.

The use and level of testing applicable to Bourns[®] custom products shall be negotiated on a case-by-case basis by Bourns and the user for which such Bourns[®] custom products are specially designed. Absent a written agreement between Bourns and the user regarding the use and level of such testing, the above provisions applicable to Bourns[®] standard products shall also apply to such Bourns[®] custom products.

Users shall not sell, transfer, export or re-export any Bourns[®] products or technology for use in activities which involve the design, development, production, use or stockpiling of nuclear, chemical or biological weapons or missiles, nor shall they use Bourns[®] products or technology in any facility which engages in activities relating to such devices. The foregoing restrictions apply to all uses and applications that violate national or international prohibitions, including embargos or international regulations. Further, Bourns[®] products and Bourns technology and technical data may not under any circumstance be exported or re-exported to countries subject to international sanctions or embargoes. Bourns[®] products may not, without prior authorization from Bourns and/or the U.S. Government, be resold, transferred, or re-exported to any party not eligible to receive U.S. commodities, software, and technical data.

To the maximum extent permitted by applicable law, Bourns disclaims (i) any and all liability for special, punitive, consequential, incidental or indirect damages or lost revenues or lost profits, and (ii) any and all implied warranties, including implied warranties of fitness for particular purpose, non-infringement and merchantability.

For your convenience, copies of this Legal Disclaimer Notice with German, Spanish, Japanese, Traditional Chinese and Simplified Chinese bilingual versions are available at:

Web Page: <u>http://www.bourns.com/legal/disclaimers-terms-and-policies</u> PDF: <u>http://www.bourns.com/docs/Legal/disclaimer.pdf</u>