

BOURNS®

Chip Resistors & Arrays Overview

POWER RATING (WATTS) AND AVAILABLE SIZES PER PRODUCT SERIES

Туре	Series		01005	0201	0402	0603	0612	0805	0815	1206	1225	2010	2512
Thick Film	CR (A, AS, PF)	General Purpose (A - AEC-Q200 Compliant, Auto Grade) (AS - AEC-Q200 Compliant, Auto Grade, Sulfur-Resistant)	0.03	0.05	0.063	0.1	-	0.125	-	0.25	-	0.5	1
	CRL	Low Ohmic		-	-	0.1	-	0.125	-	0.25	-	0.5	1
	CHV (A)	High Voltage (A - AEC-Q200 Compliant, Auto Grade)		-	-	0.1	-	0.125	-	0.25	-	0.5	1
	CRM (A)	High Power (A - AEC-Q200 Compliant, Auto Grade, Sulfur -Resistant)		-	-	0.125	-	0.25	-	0.5	-	1	2
	CRS (A)	Surge Withstand (A - AEC-Q200 Compliant, Auto Grade, Sulfur-Resistant)		-	-	0.125	-	0.25	-	0.5	-	1	2
	CHP (A)	Ultra High Power (A - AEC-Q200 Compliant, Auto Grade, Sulfur-Resistant)		-	-	0.33	-	0.5	-	0.75	-	-	3
	CMP (A)	High Power, Surge Withstand (A - AEC-Q200 Compliant, Auto Grade, Sulfur-Resistant)		-	-	0.25	_	0.5	-	0.75	-	1	1.5
Thin Film	CRT (AS) (A)	High Precision (AS - Sulfur-Resistant) (A - AEC-Q200 Compliant, Auto Grade)		-	0.063	0.1	-	0.125	-	0.25	-	-	-
Metal Strip	CRF	High Power, Current Sense, AEC-Q200 Compliant, Auto Grade		-	-	-	_	0.5	_	1	-	1	1 & 2
	CRE	High Power, Current Sense, AEC-Q200 Compliant, Auto Grade		-	-	-	-	-	-	-	-	-	2 & 3
	CRA	High Power, Current Sense, AEC-Q200 Compliant, Auto Grade		-	-	-	-	-	-	-	-	-	3
	CRK	Wide Terminal, Current Sense		-	-	-	1	-	1	-	1	-	-
	CST	4-Terminal, Current Sense, AEC-Q200 Compliant, Auto Grade		-	-	-	1	-	-	-	-	-	-
Metal Foil	CFN (A)	High Power, Current Sense, (A - AEC-Q200 Compliant, Auto Grade)		-	0.25	0.5	-	0.75	_	1	-	-	-
	CFG	Wide Terminal, Current sense		-	-	-	1	-	-	-	-	-	-

AVAILABLE RESISTANCE VALUE RANGE (OHMS) PER PRODUCT SERIES

Туре	Series		Very Low Ohmic	Low Ohmic	Middle Ohmic	High Ohmic
Thick Film	CR	General purpose			1 – 20M	
	CRL	Low Ohmic		0.1 - 1		
	CHV	High Voltage				100k - 100M
	CRM	High Power		0.047 – 1	1 – 1M	
	CRS	Surge Withstand			1 – 1M	
Thin Film	CRT (A)	High Precision			10 – 1M	
Metal Strip	CHP	Ultra High Power		0.001 - 1	1 – 1M	
	CMP	High Power, Surge Withstand			1 – 1M	
	CRF	High Power, Current Sense	0.0003-0.05			
	CRE	High Power, Current Sense	0.001 - 0.009			
	CRA	High Power, Current Sense		0.01 - 0.1		
	CRK	Wide Terminal, Current Sense	0.005 - 0.01			
	CST	4-Terminal, Current Sense	0.0005 - 0.002			
Metal Foil	CFN (A)	High Power, Current Sense	0.005 - 0.02			
	CFG	High Power, Current Sense	0.001 - 0.01			

CHIP ARRAY SUMMARY

Bourns®	Sulfur- Resistant Available	AEC-Q200 Compliant/ Auto Grade Available	Package Size	Termination Style
CAT10-J2		•/	0402 x 2	concave
CAT10-J4		/•	0402 x 4	concave
CAT16-J2			0603 x 2	concave
CAT16-J4/F4			0603 x 4	concave
CAY06-J2			0201 x 2	convex
CAY10-J2	/ .		0402 x 2	convex
CAY10-J4	•/		0402 x 4	convex
CAY16-J2			0603 x 2	convex
CAY16-J4/F4		1.41	0603 x 4	convex

CHIP RESISTOR FEATURES

Thick Film

- 1 % in E96 + E24 series
- 5 % in E24 series

Thin Film

• 0.01 % to 1 % in E96 + E24 series

Metal Foil/Metal Strip

• Based on the value table in the data sheet

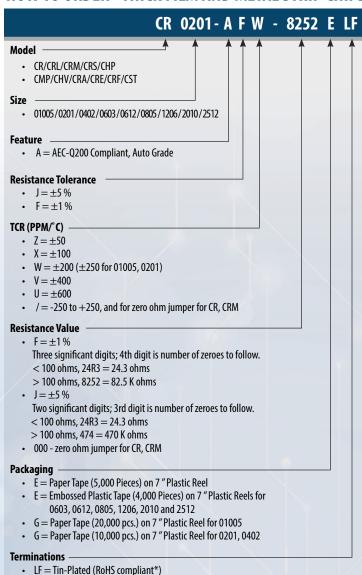
STANDARD PACKAGING

01005 size - 20,000 pcs. / 7 " Plastic Reel 0201 and 0402 sizes - 10,000 pcs. / 7 " Plastic Reel 0603-1206 sizes - 5,000 pcs. / 7 " Plastic Reel 2010, 2512 and 0612 sizes - 4,000 pcs. / 7 " Plastic Reel

CHIP RESISTOR & CHIP ARRAY APPLICATIONS

- Test equipment
- Consumer electronics
- Appliances
- Telecommunications
- Handheld electronics
- · Office equipment
- Industrial equipment
- Small signal instrumentation
- DC/DC converters in power modules
- Current sensing
- Snubbers

HOW TO ORDER - THICK FILM AND METAL STRIP CHIPS



PF = Ultra-Low Lead Content, without RoHS exemptions

CHIP ARRAYS

Available Types

- Thick film chip resistor array
- · Convex and concave
- Isolated, bussed

Available Tolerances

- 5 % and 1 % in CAT16, CAY16 series
- 5 % in CAY06, CAT10, CAY10 series
- 5 % in E24 series
- 1 % in E96 + E24 series

CHIP ARRAY VS. DIP PACKAGE

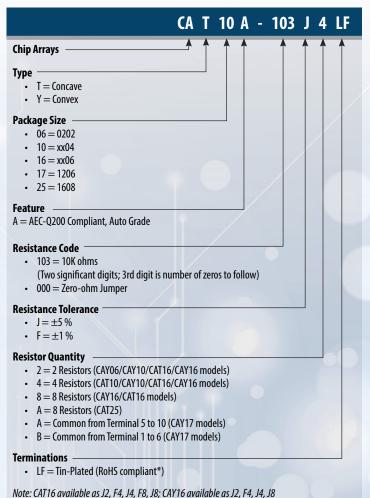
Chip Array

- Ceramic has topside protective coating
- Terminates to metallization on ceramic
- · Low power

DIP Package

- Ceramic covered with molding
- Terminates to pins connected to ceramic
- Higher power rating than chip array

HOW TO ORDER - THICK FILM CHIP ARRAYS



Chip Resistor Product Information

THICK FILM CHIP RESISTORS

Bourns offers several sizes of thick film chip resistors in standard values for most market requirements. These products provide designers off-the-shelf flexibility of performance, space savings and low cost.

CR Series	General F	ourpose					
	Size	Resistance Range	Tolerance	Temperature Coefficient	Rated Power (W)	Packaging	Features
	01005 to 2512	1 ohm to 20 megohms	1 %/5 %	±100 ppm/±250 ppm	0.03 to 1	Tape & Reel	Small package dimensions Nickel barrier prevents leaching Suitable for most types of soldering RoHS compliant*
CR-A Series	General F	Purpose, Al	EC-Q200	Compliant,	Auto Gra	de	
	Size	Resistance Range	Tolerance	Temperature Coefficient	Rated Power (W)	Packaging	Features
	0201 to 2512	1 ohm to 20 megohms	1 %/5 %	±100 ppm/±200 ppm/ ±400 ppm/±500 ppm	0.05 to .125	Tape & Reel	 Small package dimensions Nickel barrier prevents leaching Suitable for most types of soldering RoHS compliant*
R-A-AS Series	General F	Purpose, Al	EC-Q200	Compliant,	Auto Gra	de, Sulfu	ur-Resistant
	Size	Resistance Range	Tolerance	Temperature Coefficient	Rated Power (W)	Packaging	Features
	01005 to 2512	1 ohm to 20 megohms	1 %/5 %	±100 ppm/±200 ppm ±300 ppm /±400 ppm	0.03 to 1	Tape & Reel	Small package dimensions Nickel barrier prevents leaching Suitable for most types of soldering RoHS compliant*
R-PF Series	General F	Purpose - L	Jltra-Lov	v Lead Conte	ent		
	Size	Resistance Range	Tolerance	Temperature Coefficient	Rated Power (W)	Packaging	Features
	0402 to 1206	1 ohm to 10 megohms	1 %/5 %	±100ppm/ ±200 ppm/±400 ppm	0.63 to 0.25	Tape & Reel	RoHS compliant* - without exemption
CRL Series	Low Resis	stance Valu	ue - for C	Current Sensi	ng		
Rigar	Size	Resistance Range	Tolerance	Temperature Coefficient	Rated Power (W)	Packaging	Features
	0603 to 2512	0.1 to 1 ohm	1 %/5 %	±200 ppm/±600 ppm	0.1 to 1	Tape & Reel	RoHS compliant*
CHV Series	High Volt	age	1/1	10	N		
150	Size	Resistance Range	Tolerance	Temperature Coefficient	Rated Power (W)	Packaging	Features
1504	0603 to 2512	100K ohms to 100 megohms	1 %/5 %	±100 ppm/±200 ppm	0.1 to 1	Tape & Reel	 UL 1676 Listed UL/IEC 60950 & 60065 Compatible RoHS compliant*
HV (A) Series	High Volt	age, AEC-C	2200 Co	mpliant, Aut	o Grade		. 0
	Size	Resistance Range	Tolerance	Temperature Coefficient	Rated Power (W)	Packaging	Features
1504	0603 to 2512	100K ohms to 100 megohms	1 %/5 %	±100 ppm/±200 ppm	0.1 to 1	Tape & Reel	 UL 1676 Listed UL/IEC 60950 & 60065 Compatible RoHS compliant*

M Series	High Pow	er - for Cu	rrent Sei	nsing, Power	Supplies	, Flybacl	k Power Supplies
	Size	Resistance Range	Tolerance	Temperature Coefficient	Rated Power (W)	Packaging	Features
	0805 to 2512	0.047 ohm to 1 megohm	1 %/5 %	±100 ppm/±200 ppm	0.25 to 2	Tape & Reel	 Low resistance value available RoHS compliant*
ies	High Pow		200 Cor	npliant, Auto		ulfur-Re	sistant
	Size	Resistance Range	Tolerance	Temperature Coefficient	Rated Power (W)	Packaging	Features
	0603 to 2512	0.05 ohm to 1 megohm	1 %/5 %	±100 ppm/±200 ppm	0.125 to 2	Tape & Reel	Low resistance value availableRoHS compliant*
	High Pow	er Surge-F	Resistant	t - for Pulse P	ower App	olication	S
	Size	Resistance Range	Tolerance	Temperature Coefficient	Rated Power (W)	Packaging	Features
	0805 to 2512	1 ohm to 1 megohm	1 %/5 %	±100 ppm/±200 ppm	0.25 to 2	Tape & Reel	 IEC 61000-4-5 1.2/50 μs RoHS compliant*
	High Pow	er Surge-F	Resistant	t - AEC-Q200	Complia	nt, Auto	Grade, Sulfur-Resistant
>	Size	Resistance Range	Tolerance	Temperature Coefficient	Rated Power (W)	Packaging	Features
	0603 to 2512	1 ohm to 1 megohm	1 %/5 %	±100 ppm/±200 ppm	0.125 to 2	Tape & Reel	 IEC 61000-4-5 1.2/50 μs RoHS compliant*
s	Ultra-Higl	h Power Re	esistor				
	Size	Resistance Range	Tolerance	Temperature Coefficient	Rated Power (W)	Packaging	Features
	Size 0603 to 2512	Resistance		Temperature Coefficient ±100 ppm/±200 ppm		Packaging Tape & Reel	Features RoHS compliant* High power surge withstanding
25	0603 to 2512	Resistance Range 1 ohm to 1 megohm	Tolerance	Coefficient ±100 ppm/±200 ppm	(W) 0.33 to 3 W	Tape & Reel	RoHS compliant*
;	0603 to 2512	Resistance Range 1 ohm to 1 megohm	Tolerance	Coefficient ±100 ppm/±200 ppm	(W) 0.33 to 3 W	Tape & Reel	RoHS compliant* High power surge withstanding
s	0603 to 2512 Ultra-Higl	Resistance Range 1 ohm to 1 megohm Power Resistance	Tolerance 1%/5% esistor, A	Coefficient ±100 ppm/±200 ppm AEC-Q200 Co Temperature	(W) 0.33 to 3 W mpliant,	Tape & Reel Auto Gra	RoHS compliant* High power surge withstanding ade, Sulfur Resistant
	0603 to 2512 Ultra-Higl Size 0603 to 2512	Resistance Range 1 ohm to 1 megohm Power Re Resistance Range 1 ohm to	Tolerance 1%/5% esistor, A Tolerance 1%/5%	Coefficient ±100 ppm/±200 ppm AEC-Q200 Co Temperature Coefficient ±100 ppm/ ±200 ppm/±150 ppm	(W) 0.33 to 3 W mpliant, Rated Power (W)	Tape & Reel Auto Gra Packaging	 RoHS compliant* High power surge withstanding ade, Sulfur Resistant Features RoHS compliant*
5	0603 to 2512 Ultra-Higl Size 0603 to 2512	Resistance Range 1 ohm to 1 megohm POWET RE Resistance Range 1 ohm to 1 megohm	Tolerance 1%/5% esistor, A Tolerance 1%/5%	Coefficient ±100 ppm/±200 ppm AEC-Q200 Co Temperature Coefficient ±100 ppm/ ±200 ppm/±150 ppm	(W) 0.33 to 3 W mpliant, Rated Power (W)	Tape & Reel Auto Gra Packaging	 RoHS compliant* High power surge withstanding ade, Sulfur Resistant Features RoHS compliant*
es	0603 to 2512 Ultra-Higl Size 0603 to 2512 High Pow	Resistance Range 1 ohm to 1 megohm h Power Re Resistance Range 1 ohm to 1 megohm rer Resistore Resistance	Tolerance 1%/5% esistor, A Tolerance 1%/5% 7, Surge-	Coefficient ±100 ppm/±200 ppm AEC-Q200 Co Temperature Coefficient ±100 ppm/ ±200 ppm/±150 ppm Resistant Temperature	(W) 0.33 to 3 W mpliant, Rated Power (W) 0.33 to 3 W	Tape & Reel Auto Gra Packaging Tape & Reel	 RoHS compliant* High power surge withstanding ade, Sulfur Resistant Features RoHS compliant* High power surge withstanding
/	0603 to 2512 Ultra-Higl Size 0603 to 2512 High Pow Size 0603 to 2512	Resistance Range 1 ohm to 1 megohm POWER Resistance Range 1 ohm to 1 megohm PERSISTOR Resistance Range 1 ohm to 1 megohm Ter Resistance Range 1 ohm to 1 megohm	Tolerance 1%/5% Posistor, A Tolerance 1%/5% Tolerance 1%/5%	Coefficient ±100 ppm/±200 ppm AEC-Q200 Co Temperature Coefficient ±100 ppm/ ±200 ppm/±150 ppm Resistant Temperature Coefficient ±100 ppm/±200 ppm	(W) 0.33 to 3 W mpliant, Rated Power (W) 0.33 to 3 W Rated Power (W) 0.25 to 1.5 W	Tape & Reel Auto Gra Packaging Tape & Reel Packaging Tape & Reel	RoHS compliant* High power surge withstanding Action Resistant Features RoHS compliant* High power surge withstanding Features RoHS compliant* Surge resistant
	0603 to 2512 Ultra-Higl Size 0603 to 2512 High Pow Size 0603 to 2512	Resistance Range 1 ohm to 1 megohm POWER Resistance Range 1 ohm to 1 megohm PERSISTOR Resistance Range 1 ohm to 1 megohm Ter Resistance Range 1 ohm to 1 megohm	Tolerance 1%/5% Posistor, A Tolerance 1%/5% Tolerance 1%/5%	Coefficient ±100 ppm/±200 ppm AEC-Q200 Co Temperature Coefficient ±100 ppm/ ±200 ppm/±150 ppm Resistant Temperature Coefficient ±100 ppm/±200 ppm	(W) 0.33 to 3 W mpliant, Rated Power (W) 0.33 to 3 W Rated Power (W) 0.25 to 1.5 W	Tape & Reel Auto Gra Packaging Tape & Reel Packaging Tape & Reel	 RoHS compliant* High power surge withstanding ade, Sulfur Resistant Features RoHS compliant* High power surge withstanding Features RoHS compliant* Features RoHS compliant*

Chip Resistor Product Information

THIN FILM CHIP RESISTORS

Bourns® Model CRT Series provides tight tolerance and high precision over a wide range of resistance values.

These resistors are typically used in current sense applications and precision circuits, with specific ordering characteristics for size and performance selection.

CRT Series	High Precision								
070	Size	Resistance Range	Tolerance	Temperature Coefficient	Rated Power (W)	Packaging	Features		
	0402 to 1206	1 ohm to 1 megohm	0.01 % to 1 %	±2 to ±50 ppm	0.063 to 0.25	Tape & Reel	Ultra-tight tolerance RoHS compliant*		

CRT-A Series	High Pred	High Precision - AEC-Q200 Compliant, Auto Grade									
	Size	Resistance Range	Tolerance	Temperature Coefficient	Rated Power (W)	Packaging	Features				
	0402 to 1206	10 ohm to 1 megohm	0.1% to 1%	±-10 to ±-50 ppm	0.063 to 0.25	Tape & Reel	AEC-Q200 compliant Ultra-tight tolerance RoHS compliant*				

CRT-AS Series	High Pred	High Precision - Sulfur-Resistant								
070	Size	Resistance Range	Tolerance	Temperature Coefficient	Rated Power (W)	Packaging	Features			
	0402 to 1206	1 ohm to 1 megohm	0.05% to 1%	±10 to ±50 ppm	0.063 to 0.25	Tape & Reel	Sulfur-resistantUltra-tight toleranceRoHS compliant*			

RoHS Directive 2015/863, Mar 31, 2015 and Annex.



METAL FOIL AND STRIP CHIP RESISTORS

Bourns offers several metal foil and metal strip chip resistors and EB welded metal strip shunts. These high-power resistors have very low resistance values and TCR due to their metal resistive element and are suitable for all types of current sensing applications.

Metal foil resistors are constructed with a metal foil resistive element mounted on a ceramic substrate for excellent heat conductivity. Metal strip chip resistors have electroplated tin (Sn) outer terminations for soldering onto the board. The resistive element is protected by an epoxy overcoat layer.

CFN Series	Metal Foi	l Current S	ense Re	sistor			
	Size	Resistance Range	Tolerance	Temperature Coefficient	Rated Power (W)	Packaging	Features
	0402 to 1206	0.005 to 0.4 ohm	1%,5%	±50 ppm ±100 ppm	0.25 to 1	Tape & Reel	High power densityRoHS compliant*
CFN(A) Series	Metal Foi	l Current S	ense Re	sistor, AEC-C	200 Com	pliant, <i>P</i>	\uto Grade
	Size	Resistance Range	Tolerance	Temperature Coefficient	Rated Power (W)	Packaging	Features
	0402 to 1206	0.005 to 0.4 ohm	1 %, 5 %	±50 ppm ±100 ppm	0.25 to 1	Tape & Reel	 High power density AEC-Q200 compliant RoHS compliant*
CRF Series	High Pow	er Current	t Sense (Chip Resistor	- AEC-Q2	200 Com	pliant, Auto Grade
Ross	Size	Resistance Range	Tolerance	Temperature Coefficient	Rated Power (W)	Packaging	Features
	0805, 1206 2010 & 2512	0.0003 to 0.05 ohm	1 %, 5 %	±50 ppm	0.5 to 3	Tape & Reel	High power densityAEC-Q200 compliantRoHS compliant*
CRE Series	High Pow	er Current	t Sense (Chip Resistor	· - AEC-Q2	200 Com	pliant, Auto Grade
	Size	Resistance	Tolerance	Temperature	Rated Power	Dackaning	Factoria
1000	J.20	Range	IVICIAIICE	Coefficient	(W)	Packaging	Features
nos	2512	0.001 to 0.009 ohm	1%	Coefficient ±50 ppm	(W) 2&3	Tape & Reel	Mn/Cu alloy resistor Low EMF AEC-Q200 compliant RoHS compliant*
CRA Series	2512	0.001 to 0.009 ohm	1%	±50 ppm	2 & 3	Tape & Reel	Mn/Cu alloy resistorLow EMFAEC-Q200 compliant
	2512	0.001 to 0.009 ohm	1%	±50 ppm	2 & 3	Tape & Reel	Mn/Cu alloy resistor Low EMF AEC-Q200 compliant RoHS compliant*
CRA Series Rozo	2512 High Pow	0.001 to 0.009 ohm /er Current Resistance	1% t Sense (±50 ppm Chip Resistor Temperature	2&3 - AEC-Q2 Rated Power	Tape & Reel	Mn/Cu alloy resistor Low EMF AEC-0200 compliant RoHS compliant* pliant, Auto Grade
	2512 High Pow Size 2512	0.001 to 0.009 ohm /er Current Resistance Range 0.01 to 0.1 ohm	1% t Sense (Tolerance	±50 ppm Chip Resistor Temperature Coefficient	2&3 - AEC-Q2 Rated Power (W)	Tape & Reel 200 Com Packaging Tape & Reel	Mn/Cu alloy resistor Low EMF AEC-0200 compliant RoHS compliant* pliant, Auto Grade Features Special alloy resistor AEC-0200 compliant
CRK Series	2512 High Pow Size 2512	0.001 to 0.009 ohm /er Current Resistance Range 0.01 to 0.1 ohm	1% t Sense (Tolerance	±50 ppm Chip Resistor Temperature Coefficient ±50 ppm	2&3 - AEC-Q2 Rated Power (W)	Tape & Reel 200 Com Packaging Tape & Reel	Mn/Cu alloy resistor Low EMF AEC-0200 compliant RoHS compliant* pliant, Auto Grade Features Special alloy resistor AEC-0200 compliant
ROD	2512 High Pow Size 2512 Metal Str	0.001 to 0.009 ohm /er Current Resistance Range 0.01 to 0.1 ohm ip, Wide Te	1% Tolerance 1%,5% erminal (±50 ppm Chip Resistor Temperature Coefficient ±50 ppm Current Sense Temperature	2&3 - AEC-Q2 Rated Power (W) 3 e Resistor Rated Power	Tape & Reel 200 Com Packaging Tape & Reel	Mn/Cu alloy resistor Low EMF AEC-Q200 compliant RoHS compliant* pliant, Auto Grade Features Special alloy resistor AEC-Q200 compliant RoHS compliant*
CRK Series	2512 High Pow Size 2512 Metal Str Size 0612, 0815, 1225	0.001 to 0.009 ohm /er Current Resistance Range 0.01 to 0.1 ohm ip, Wide Te Resistance Range 0.005 to 0.01 ohm	1% Tolerance 1%,5% erminal (Tolerance	±50 ppm Chip Resistor Temperature Coefficient ±50 ppm Current Sense Temperature Coefficient ±50 ppm	2&3 - AEC-Q2 Rated Power (W) 3 e Resistor Rated Power (W) 1&3	Tape & Reel 200 Com Packaging Tape & Reel Packaging Tape & Reel	Mn/Cu alloy resistor Low EMF AEC-Q200 compliant RoHS compliant* pliant, Auto Grade Features Special alloy resistor AEC-Q200 compliant RoHS compliant* Features Wide terminal type Excellent heat dissipation

±100 ppm/±200 ppm

0.0005 to

0.002 ohm

1%

0612

Four terminal design

AEC-Q200 compliant

RoHS compliant*

Tape & Reel

Chip Array Product Information

CHIP RESISTOR ARRAYS WITH CONVEX TERMINALS

Bourns provides a wide selection of standard resistance values, in several popular sizes, available with convex terminations. Chip arrays require minimal space, and offer cost and component count reductions.

AEC-Q200 compliant, automotive grade and sulfur-resistant designs are available.

	V				•	•	
CA	vn	6- l	А	5	50	177	

Chip Resistor Array - Sulfur-Resistant



Size	Resistance Range	Tolerance	Temperature Coefficient	Power per Resistor (W)	Features
0202	10 ohms to 1 megohm	±5 %	±250 ppm/°C	0.0625	Sulfur-resistant Convex termination style RoHS compliant*

CAY10-J2/J4 Series

Chip Resistor Array



Size	Resistance Range	Tolerance	Temperature Coefficient	Power per Resistor (W)	Features
0404, 0804	10 ohms to 1 megohm	±5 %	±250 ppm/°C	0.0625	Convex termination style 2/4 isolated resistors in an 0404/0804 size package E24 series from 10 ohms to 1 megohm RoHS compliant*

CAY10A-J2/J4 (AS) Series

Chip Resistor Array, AEC-Q200 Compliant, Auto Grade - Sulfur-Resistant Available



Size	Resistance Range	Tolerance	Coefficient	Resistor (W)	Features
0404, 0804	3 ohms to 1 megohm	±5 %	±250 ppm/°C	0.0625	Sulfur-resistant 2/4 isolated resistors in an 0404/0804 size package E24 series from 3 ohms to 1 megohm

RoHS Directive 2015/863, Mar 31, 2015 and Annex.



CAY16	-/F4	/J4	Ser	ies

Chip Resistor Array

Size	Resistance Range	Tolerance	Temperature Coefficient	Power per Resistor (W)	Features
1206	10 ohms to 1 megohm	±1 %, ±5 %	±200 ppm/°C	0.0625	Convex termination style Isolated elements available RoHS compliant*

CAY16A-F4/J4 (AS)

Chip Resistor Array - AEC-Q200 Compliant, Auto Grade - Sulfur-Resistant Available)



Size	Resistance Range	Tolerance	Temperature Coefficient	Power per Resistor (W)	Features
1206	3 ohms to 1 megohm	±1 %, ±5 %	±200 ppm/°C	0.0625	Sulfur-resistant Convex termination style RoHS compliant*



Chip Array Product Information

CHIP RESISTOR ARRAYS WITH CONCAVE TERMINALS

Bourns provides a wide selection of standard resistance values in several popular sizes concave terminations. Chip arrays require minimal space, and offer cost and component count reductions.

AEC-Q200 compliant, automotive grade and sulfur-resistant designs are available.

CAT10-J4 Series	Chip Resistor Array					
10-	Size	Resistance Range	Tolerance	Temperature Coefficient	Power per Resistor (W)	Features
	0804	10 ohms to 1 megohm	±5 %	±250 ppm/°C	0.0625	 Concave termination style E24 series from 10 ohms to 1 megohm RoHS compliant*

CAT16-F4/J4 Series	Chip Resistor Array					
70	Size	Resistance Range	Tolerance	Temperature Coefficient	Power per Resistor (W)	Features
	1206	10 ohms to 1 megohm	±1 %, ±5 %	±200 ppm/°C	0.0625	 Concave termination style 2 or 4 isolated elements available RoHS compliant*

CAT10A-J2/J4 Series	Chip Resistor Array, AEC-Q200 Compliant, Auto Grade					
	Size	Resistance Range	Tolerance	Temperature Coefficient	Power per Resistor (W)	Features
	0404, 0804	10 ohms to 1 megohm	±5 %	±300 ppm/°C	0.063	Concave termination style E24 series from 10 ohms to 1 megohm RoHS compliant*

RoHS Directive 2015/863, Mar 31, 2015 and Annex.



Chip Resistor Array, AEC-Q200 Compliant, Auto Grade CAT16A-F4/J4 Series Resistance Power per Resistor (W) Temperature Size Tolerance **Features** Coefficient Range Concave termination style 2/4 isolated elements available RoHS compliant* 10 ohms to 1206 1%,5% ±200 ppm/°C 0.0625 1 megohm





Worldwide Sales Offices

Country/Region	Phone	Email
Americas:	+1-951-781-5500	americus@bourns.com
Brazil:	+55 11 5505 0601	americus@bourns.com
China:	+86 21 64821250	asiacus@bourns.com
Europe, Middle East, Africa:	+36 88 885 877	eurocus@bourns.com
Japan:	+81 49 269 3204	asiacus@bourns.com
Korea:	+82 70 4036 7730	asiacus@bourns.com
Mexico:	+52 614 478 0400	mexicus@bourns.com
Singapore:	+65 6348 7227	asiacus@bourns.com
Taiwan:	+886 2 25624117	asiacus@bourns.com
Other Asia-Pacific Countries:	+886 2 25624117	asiacus@bourns.com
Technical Assistance Region	Phone	Email
Asia-Pacific:	+886 2 25624117	techweb@bourns.com

Region Phone Email

Asia-Pacific: +886 2 25624117 techweb@bourns.com
Europe, Middle East, Africa: +36 88 885 877 eurotech@bourns.com
Americas: +1-951-781-5500 techweb@bourns.com

Export Control Inquiry Email

US exportcontrol@

All Export Control, including BIS and ITAR subject inquiries, must be directed to US persons only. For quotes or information regarding US Export Control products or applications, please send to US_exportcontrol@bourns.com.



www.bourns.com

Bourns® products are available through an extensive network of manufacturer's representatives, agents and distributors. To obtain technical applications assistance, a quotation, or to place an order, contact a Bourns representative in your area.

Specifications subject to change without notice. Actual performance in specific customer applications may differ due to the influence of other variables. Customers should verify actual device performance in their specific applications.

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.

"Bourns" is a registered trademark of Bourns, Inc. in the U.S. and other countries.

COPYRIGHT© 2025, BOURNS, INC. • MIMEO • 7/25 • e/N2535