



Features

- Q RoHS compliant*
- Q Tight tolerance of bottom electrode width
- Q 1 % and 5 % tolerance options
- Q Three layer termination process with nickel barrier helps prevent leaching and provides excellent solderability
- Q Tape and reel packaging

Additional Information

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BOURNS®

CR Series - Thick Film Chip Resistors

Electrical Characteristics

Characteristic	Model No.							
	CR01005	CR0201	CR0402	CR0603	CR0805	CR1206	CR2010	CR2512
Power Rating @ 70 °C	1/32 W	1/20 W	1/16 W	1/10 W	1/8 W	1/4 W	1/2 W	1 W
Operating Temp. Range	-55 °C to +125 °C			-55 °C to +155 °C				
Derated to Zero Load @	+125 °C			+155 °C				
Max. Working Voltage	15 V	30 V	50 V	75 V	150 V	200 V	200 V	200 V
Max. Overload Voltage	30 V	50 V	100 V	150 V	300 V	400 V	400 V	400 V
Resistance Tolerance	±1 %, ±5 %							
Temperature Coefficient ±1 % (E24 & E96 Series)	10)R<100 ±300 ppm/°C	1)R<10 -200~+600 ppm/°C	1)R<10 -200~+500 ppm/°C	1)R<10 ±200 ppm/°C	1)R<10 ±200 ppm/°C	1)R<10 ±200 ppm/°C	1)R<10 ±200 ppm/°C	1)R<10 ±200 ppm/°C
	100)R<1 M ±200 ppm/°C	10)R)3 M ±200 ppm/°C	10)R)1 M ±100 ppm/°C	10)R)1 M ±100 ppm/°C	10)R)1 M ±100 ppm/°C	10)R)1 M ±100 ppm/°C	10)R)1 M ±100 ppm/°C	10)R)1 M ±100 ppm/°C
Temperature Coefficient ±5 % (E24 Series)	10)R<100 ±300 ppm/°C	1)R<10 -200~+600 ppm/°C	1)R<10 -200~+500 ppm/°C	1)R<10 ±400 ppm/°C	1)R<10 ±400 ppm/°C	1)R<10 ±400 ppm/°C	1)R<10 ±400 ppm/°C	1)R<10 ±400 ppm/°C
	100)R)1 M ±200 ppm/°C	10)R)10 M ±200 ppm/°C	10)R)10 M ±200 ppm/°C	10)R)10 M ±200 ppm/°C	10)R)10 M ±200 ppm/°C	10)R)10 M ±200 ppm/°C	10)R)10 M ±200 ppm/°C	10)R)10 M ±200 ppm/°C
Zero Ohm Jumper	50 milliohms max.							
Rated Current	0.5 A		1 A			2 A		
Max. Overload Current	1 A		2.5 A			5 A		

Environmental Characteristics

Moisture Sensitivity Level.....1



WARNING
Cancer and Reproductive Harm
www.P65Warnings.ca.gov

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