



Features

- Thick film technology
- Power rating of 2 watts at 70 °C
- RoHS compliant*

Applications

- Power supplies
- Stepper motor drives

CRM2512 - High Power Current Sense Chip Resistor

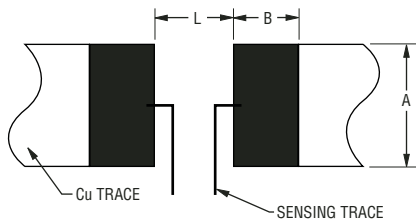
Electrical Characteristics

Power Rating @ 70 °C	2 W
Operating Temperature Range	-55 °C to +155 °C
Derated to Zero Load at	+155 °C
Maximum Working Voltage	$(P \times R)^{1/2}$
Insulation Resistance	> 100 megohms
Resistance Range	0.047 - 0.91 ohms
Resistance Tolerance	±1 %, ±5 %
Temperature Coefficient 0.047 to 0.091 ohms 0.1 to 0.91 ohms	±150 PPM/°C ±100 PPM/°C

Characteristic Data

Test	ΔR Max.
Load Life (1000 hours) 1 % Tolerance 5 % Tolerance	< 1 % < 3 %
Short Term Overload 1 % Tolerance 5 % Tolerance	< 1 % < 2 %
Thermal Shock 1 % Tolerance 5 % Tolerance	< 0.5 % < 1 %

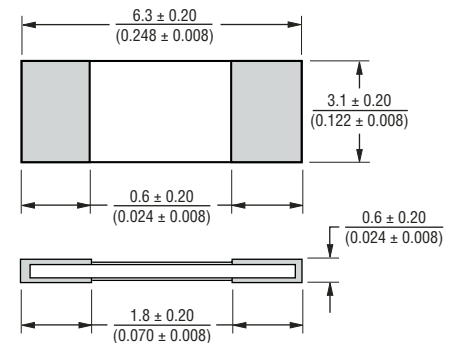
Recommended Solder Pad Layout



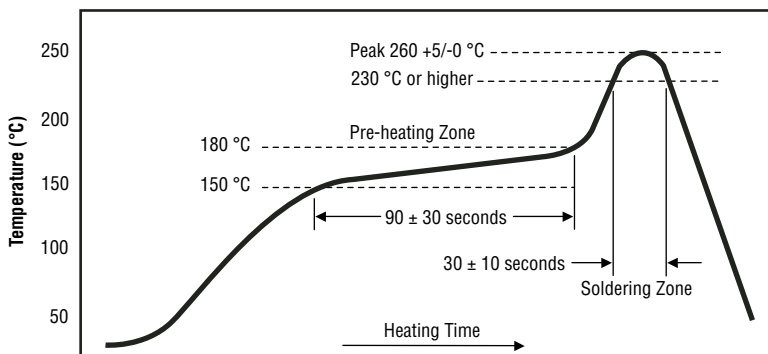
DIMENSIONS: $\frac{\text{MM}}{\text{(INCHES)}}$

Model	A	B	L
CRM2512	$\frac{3.7}{(0.146)}$	$\frac{2.45}{(0.096)}$	$\frac{2.7}{(0.106)}$

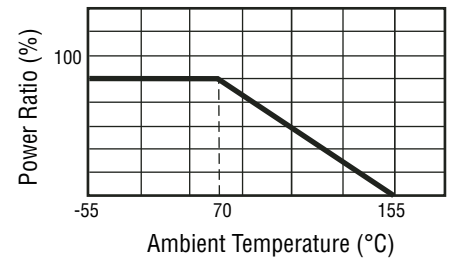
Product Dimensions



Soldering Profile



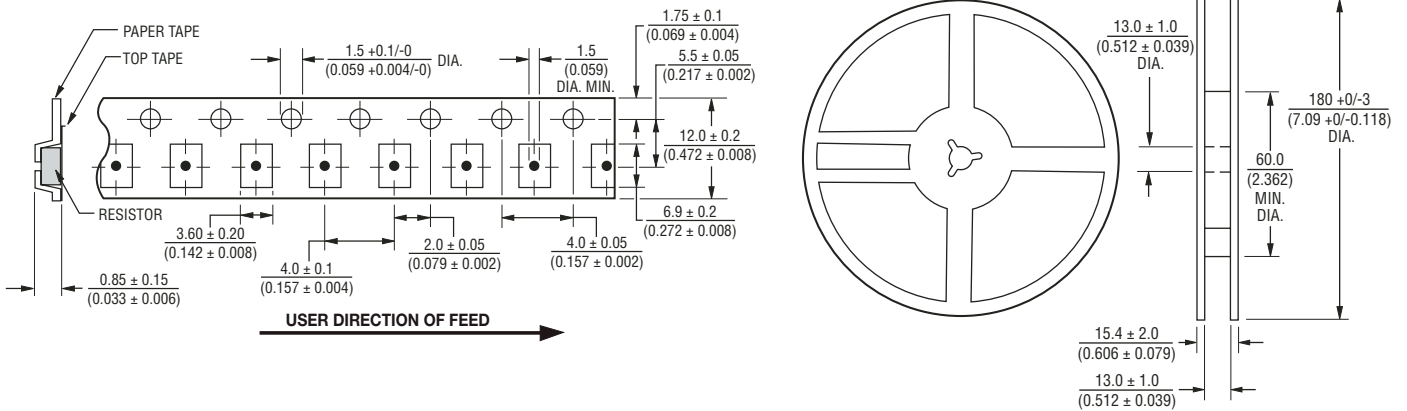
Derating Curve



*RoHS Directive 2002/95/EC Jan 27 2003 including Annex Specifications are subject to change without notice. Customers should verify actual device performance in their specific applications.

CRM2512 - High Power Current Sense Chip Resistor **BOURNS®**

Packaging Dimensions (Conforms to EIA RS-481A)



Resistance Value Table

Code	R Value	Code	R Value
R047	0.047	R200	0.200
R050	0.050	R300	0.300
R060	0.060	R510	0.510
R075	0.075	R750	0.750
R082	0.082	R820	0.820
R090	0.090	R910	0.910
R100	0.100		

How To Order

Model _____ **CRM 2512 - F X - R100 E LF**
 (CRM = Precision Chip Resistor)

Size _____
 2512 = 2512 Size

Resistance Tolerance _____
 • F = ±1 %
 • J = ±5 %

TCR (PPM/°C) _____
 • W = ±150 PPM/°C
 • X = ±100 PPM/°C

Resistance Value _____
 "R" (decimal point) followed by three significant digits (example: R100 = 0.100 ohm)

Packaging _____
 • E = 4000 pieces on 180 mm (7 inch) reel

Termination _____
 • LF = Tin-plated (RoHS Compliant)



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