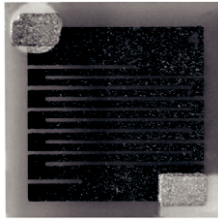


Thin Film 0303 Size Resistor on Alumina



Product may not be to scale

FEATURES

- Wire bondable
- Chip size: 0.030 inches square
- Resistance range: 25 Ω to 38 kΩ
- Alumina substrate
- Low stray capacitance: < 0.2 pF
- Resistor material: Nichrome
- Resistor passivation coat optional
- Tolerances to 0.05 %

The CC2 series single-value resistor chips offer a relatively small size, low shunt capacitance and solder pad option. The CC2s nichrome resistor material offers excellent stability.

The CC2s are manufactured using Vishay Electro Films (EFI) sophisticated thin film equipment and manufacturing technology. The CC2s are 100 % electrically tested and visually inspected to MIL-STD-883.

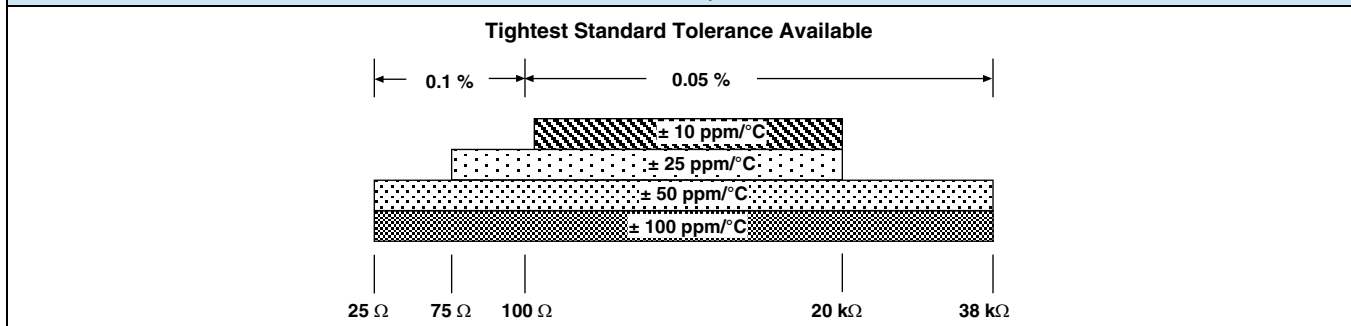
APPLICATIONS

Vishay EFI CC2 chip resistors provide excellent high-frequency response and are ideally suited for prototyping. Typical application areas are:

- Amplifiers
- Oscillators
- Attenuators
- Couplers
- Filters

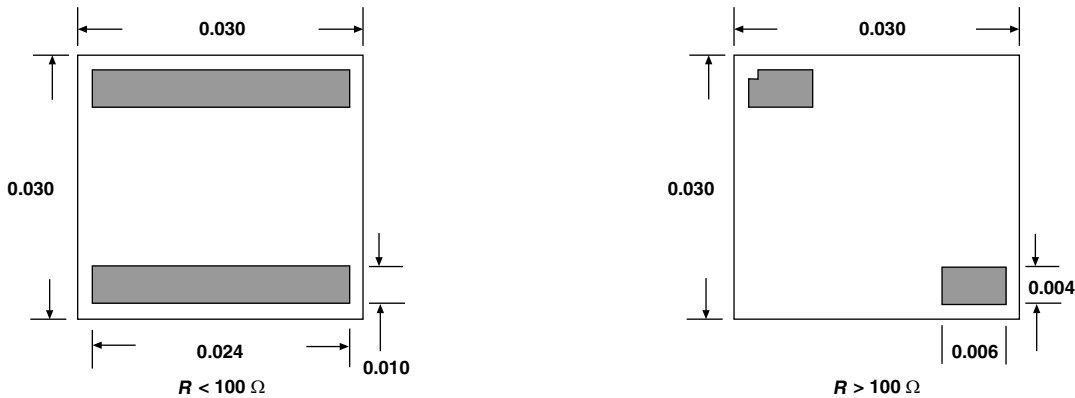
Recommended for hermetic environments where die is not exposed to moisture.

TEMPERATURE COEFFICIENT OF RESISTANCE, VALUES AND TOLERANCES



STANDARD ELECTRICAL SPECIFICATIONS

PARAMETER	
Noise, MIL-STD-202, Method 308	- 20 dB typ.
Moisture Resistance, MIL-STD-202 Method 106 - Hermetic Applications	± 0.2 % max. ΔR/R
Stability, 1000 h, + 125 °C, 100 mW	± 0.1 % max. ΔR/R
Operating Temperature Range	- 55 °C to + 125 °C
Thermal Shock, MIL-STD-202, Method 107, Test Condition F	± 0.25 % max. ΔR/R
High Temperature Exposure, + 150 °C, 100 h	± 0.1 % max. ΔR/R
Dielectric Voltage Breakdown	400 V
Insulation Resistance	10 ¹² min.
Operating Voltage	100 V
DC Power Rating at + 125 °C (Derated to Zero at + 150 °C)	100 mW max.
5 x Rated Power Short-Time Overload, + 25 °C, 5 s	± 0.25 % max. ΔR/R

DIMENSIONS in inches

SCHEMATIC


MECHANICAL SPECIFICATIONS in inches	
PARAMETER	
Chip Size	0.030 x 0.030 ± 0.003 (1.27 mm x 1.27 mm ± 0.076 mm)
Chip Thickness	0.010 ± 0.002 (0.25 mm ± 0.05 mm)
Chip Substrate Material	99.6 % alumina, 2 microinches to 4 microinches finish
Resistor Material	Nichrome
Bonding Pad Size	0.004 x 0.006 (0.100 mm x 0.15 mm) minimum
Number of Pads	2
Pad Material	25 kÅ minimum gold standard
Backing	None

GLOBAL PART NUMBER INFORMATION									
Global Part Number: CC2-12500KKSSNHWS									
Global Part Number Description: CC2- 1.25K 10 %, 100 ppm/°C, std trim, SnPb terminations, no back metal, class H, WS									
<div style="display: flex; justify-content: space-around; font-weight: bold; font-size: 1.2em;"> CC2-12500KKSSNHWS </div>									
MODEL	RESISTANCE	RES. MULTIPLIER CODE	TOL. CODE (%)	TCR (ppm/°C)	TRIM STYLE	TERMINATION	BACK METAL	VISUAL CLASS	PACKAGING CODE
CC2-	First 4 digits are significant figures of resistance	B = 0.01 A = 0.1 0 = 1 1 = 10	A = 0.05 B = 0.1 C = 0.25 D = 0.5 F = 1.0 G = 2.0 J = 5.0 K = 10	E = ± 25 C = ± 50 K = ± 100	E = Edg S = Std U = Usr	G = Au S = SnPb A = Al T = Lead (Pb)-free (e1)	G = Au N = None	H = Class H K = Class K	WS = Waffle pack 100 min, 1 mult



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