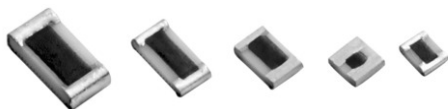


Thick Film Chip Resistors



STANDARD ELECTRICAL SPECIFICATIONS

MODEL	RESISTANCE (Ω)	POWER RATING ¹ (mW)
CR0001	100 - 500K	100
CR5050	100 - 500K	100
CR0002	100 - 1M	200
CR0003	100 - 1M	250
CR1010	100 - 1M	450
CR1206	100 - 1M	300
CR0004	100 - 1M	325
CR0005	100 - 1M	525
CR2010	100 - 1M	575

1. Higher values available. Please consult our application engineer at +1-909-923-3313.

ENVIRONMENTAL SPECIFICATIONS

Operating Temperature: - 55 °C to + 150 °C

Moisture Resistance: Less than 0.5 % change when tested per Method 106 of MIL-STD-202

Life: Less than 1 % change when tested per Method 108D (+ 85 °C) of MIL-STD-202

FEATURES

- Flow solderable
- Custom sizes available
- Burn-in data available
- Automatic placement capability
- Top and wraparound terminations
- Tape and reel packaging available
- Internationally standardized sizes
- Lead (Pb)-free version is RoHS compliant



RoHS*
COMPLIANT

ELECTRICAL SPECIFICATIONS

Resistance Range: 100 Ω to 1 M Ω

(Higher values available)

Resistance Tolerance: $\pm 1\%$, $\pm 2\%$, $\pm 5\%$, $\pm 10\%$, $\pm 20\%$

Temperature Coefficient: (- 55 °C to + 150 °C)

± 100 ppm/°C: Standard thru 1 M Ω

± 200 ppm/°C: 1.1 M Ω thru 10 M Ω

Power Rating: 100 mW thru 575 mW

Short Time Overload: Less than 0.5 % ΔR

MECHANICAL SPECIFICATIONS

Construction: 96 % alumina substrate with proprietary cermet resistance element and specified termination material

DIMENSIONS in inches [millimeters]

Termination Style A (3-sided wraparound)	Termination Style B (Top conductor only)	Termination Style C (5-sided wraparound)	MODEL	LENGTH (L) ² ± 0.006 [0.152]	WIDTH (W) ² ± 0.006 [0.152]	THICKNESS (T) ² ± 0.002 [0.051]
			CR0001	0.050 [1.27]	0.040 [1.02]	0.012 [0.305]
			CR5050	0.050 [1.27]	0.050 [1.27]	0.010 [0.254]
			CR0002	0.075 [1.90]	0.050 [1.27]	0.015 [0.381]
			CR0003	0.100 [2.54]	0.050 [1.27]	0.015 [0.381]
			CR1010	0.100 [2.54]	0.100 [2.54]	0.020 [0.508]
			CR1206	0.125 [3.18]	0.062 [1.57]	0.025 [0.635]
			CR0004	0.150 [3.81]	0.050 [1.27]	0.015 [0.381]
			CR0005	0.225 [5.72]	0.075 [1.90]	0.015 [0.381]
			CR2010	0.200 [5.08]	0.100 [2.54]	0.020 [0.508]

2. All dimensions are before solder coating.

GLOBAL PART NUMBER INFORMATION

New Global Part Numbering: CR0001AA1K00FKSB (preferred part number format)

GLOBAL MODEL	SIZE	TERM STYLE	TERM MATERIAL	RESISTANCE VALUE	TOLERANCE	TCR	SOLDER TERMINATION	PACKAGING
CR	0001 5050 0002 0003 1010 1206 0004 0005 2010	A = 3-sided B = top only C = 5-sided	A = Palladium Silver B = Platinum Gold C = Gold D = Platinum Silver E = Palladium Palladium Gold	R = Decimal K = Thousand M = Million 100R = 100 Ω 1K00 = 1 k Ω 1M00 = 1 M Ω	F = $\pm 1.0\%$ G = $\pm 2.0\%$ J = $\pm 5.0\%$ K = $\pm 10.0\%$ M = $\pm 20.0\%$	K = 100 ppm L = 150 ppm N = 200 ppm W = 350 ppm	S = Sn62/Pb36/Ag2 F = Sn95/Ag5 N = No Solder	B = Bulk T = Tape and Reel W = Waffle

Historical Part Numbering: CR1AA1001F100S2 (will continue to be accepted)

GLOBAL MODEL	SIZE	TERM STYLE	TERM MATERIAL	RESISTANCE VALUE	TOLERANCE	TCR	SOLDER TERMINATION
CR	1	A	A	1001	F	100	S2
HISTORICAL MODEL	SIZE	TERM STYLE	TERM MATERIAL	RESISTANCE VALUE	TOLERANCE	TCR	SOLDER TERMINATION

* Pb containing terminations are not RoHS compliant, exemptions may apply



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