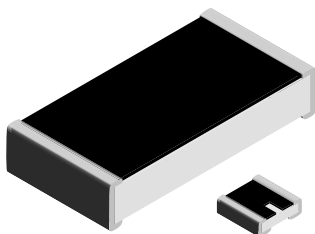


Thick Film Chip Resistors, Industrial



FEATURES

- Operating temperature range: - 55°C to + 150°C
- Same materials and construction as MIL-PRF-55342 chip resistors
- Termination: Tin/Lead wraparound termination over nickel barrier. Also available with Lead (Pb)-free wraparound terminations.
- Capability to develop specific reliability programs designed to customer requirements
- Size, value, packaging and materials can be customized for special customer requirements.



STANDARD ELECTRICAL SPECIFICATIONS

GLOBAL MODEL	HISTORICAL MODEL	POWER RATING	MAXIMUM OPERATING	TEMPERATURE COEFFICIENT	TOLERANCE %	RESISTANCE RANGE
RCWP0402	RCWP-0402	0.04	25	300 100	± 1 to ± 10 ± 1 to ± 10	5.62 - 1M 10 - 1M
RCWP0603	RCWP-0603	0.07	50	300 100, 300	± 2 to ± 10 ± 1 to ± 10	3 - 1M 5.62 - 1M
RCWP0540	RCWP-540	0.08	40	300 100, 300	± 2 to ± 10 ± 1 to ± 10	3 - 4.7M 10 - 499K
RCWP0550	RCWP-550	0.10	50	300 100, 300	± 2 to ± 10 ± 1 to ± 10	2 - 4.7M 5.62 - 1M
RCWP0575	RCWP-575	0.15	70	300 100, 300	± 2 to ± 10 ± 1 to ± 10	2 - 10M 5.62 - 1M
RCWP5100	RCWP-5100	0.20	100	300 100, 300	± 2 to ± 10 ± 1 to ± 10	3 - 15M 5.62 - 1M
RCWP1206	RCWP-1206	0.25	100	300 100, 300	± 2 to ± 10 ± 1 to ± 10	3 - 15M 5.62 - 5.62M
RCWP5150	RCWP-5150	0.35	125	300 100, 300	± 2 to ± 10 ± 1 to ± 10	3 - 20M 5.62 - 4.75M
RCWP1100	RCWP-1100	0.50	100	300 100, 300	± 2 to ± 10 ± 1 to ± 10	3 - 7.5M 5.62 - 5.62M
RCWP7225	RCWP-7225	0.60	200	300 100, 300	± 2 to ± 10 ± 1 to ± 10	3 - 20M 5.62 - 15M
RCWP2010	RCWP-2010	0.80	200	300 100, 300	± 2 to ± 10 ± 1 to ± 10	3 - 20M 5.62 - 15M
RCWP2512	RCWP-2512	1.0	200	300 100, 300	± 2 to ± 10 ± 1 to ± 10	5 - 20M 5.62 - 15M

*Consult factory for extended resistance range.

**Power rating depends on the max. temperature at the solder point, the component placement density and the substrate material.

GLOBAL PART NUMBER INFORMATION

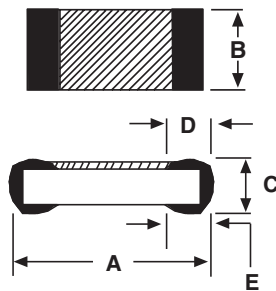
New Global Part Numbering: RCWP510010K0GMWB (preferred part numbering format)

R C W P 5 1 0 0 1 0 K 0 G M W B

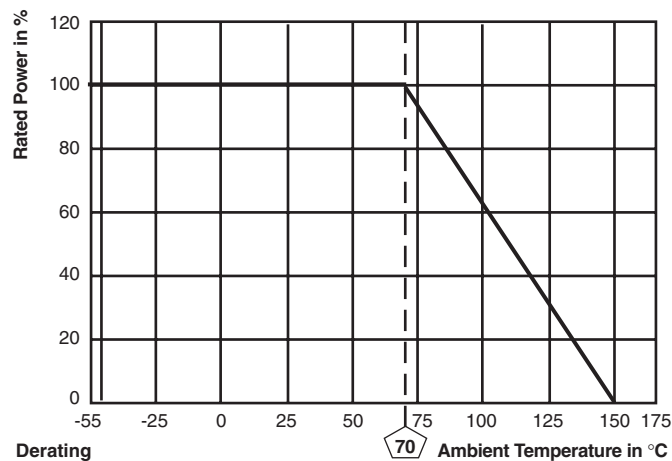
GLOBAL MODEL	RESISTANCE VALUE	TOLERANCE CODE	TEMPERATURE COEFFICIENT	PACKAGING CODE	SPECIAL
(see Standard Electrical Specifications table)	R = Decimal K = Thousand M = Million 10R0 = 10 Ω 1K30 = 1.3K Ω 1M00 = 1.0M Ω 0000 = 0 Ω Jumper	F = $\pm 1\%$ G = $\pm 2\%$ J = $\pm 5\%$ K = $\pm 10\%$ Z = 0 Ω Jumper	K = 100ppm M = 300ppm S = Special, 0 Ω Jumper	TP = Tin/Lead, T/R (Full) S3 = Tin/Lead, T/R (1000 pcs) WB = Tin/Lead, Tray S2 = Tin/Lead, T/R (500 pcs) S6 = Tin/Lead, T/R (300 pcs) EA = Lead (Pb)-free, T/R (Full) EB = Lead (Pb)-free, T/R (1000 pcs) ET = Lead (Pb)-free, Tray EC = Lead (Pb)-free, T/R (500 pcs) ED = Lead (Pb)-free, T/R (300 pcs)	Blank = Standard (Dash Number) (up to 2 digits) From 1-99 as applicable 99 = 0 Ω Jumper

Historical Part Numbering: RCWP-5100103G (will continue to be accepted)




DIMENSIONS


DIMENSIONS [in millimeters]					
GLOBAL MODEL	A (Length)	B (Width)	C (Height)	D (Top Term)	E (Bottom Term)
RCWP0402	0.039 ± 0.003 [0.99 ± 0.08]	0.020 ± 0.003 [0.51 ± 0.08]	0.013 ± 0.003 [0.33 ± 0.08]	0.010 ± 0.005 [0.25 ± 0.13]	0.010 ± 0.005 [0.25 ± 0.13]
RCWP0540	0.055 ± 0.005 [1.40 ± 0.13]	0.040 ± 0.005 [1.02 ± 0.13]	0.020 ± 0.005 [0.51 ± 0.13]	0.010 ± 0.005 [0.25 ± 0.13]	0.010 ± 0.005 [0.25 ± 0.13]
RCWP0550	0.055 ± 0.005 [1.40 ± 0.13]	0.050 ± 0.005 [1.27 ± 0.13]	0.020 ± 0.005 [0.51 ± 0.13]	0.010 ± 0.005 [0.25 ± 0.13]	0.015 ± 0.005 [0.38 ± 0.13]
RCWP0575	0.080 ± 0.005 [2.03 ± 0.13]	0.050 ± 0.005 [1.27 ± 0.13]	0.020 ± 0.005 [0.51 ± 0.13]	0.015 ± 0.005 [0.38 ± 0.13]	0.015 ± 0.005 [0.38 ± 0.13]
RCWP0603	0.063 ± 0.005 [1.60 ± 0.13]	0.032 ± 0.005 [0.81 ± 0.13]	0.018 ± 0.005 [0.46 ± 0.13]	0.012 ± 0.005 [0.31 ± 0.13]	0.015 ± 0.005 [0.38 ± 0.13]
RCWP1100	0.105 ± 0.005 [2.67 ± 0.13]	0.100 ± 0.005 [2.54 ± 0.13]	0.020 ± 0.005 [0.51 ± 0.13]	0.015 ± 0.005 [0.38 ± 0.13]	0.015 ± 0.005 [0.38 ± 0.13]
RCWP1206	0.125 ± 0.005 [3.18 ± 0.13]	0.063 ± 0.005 [1.60 ± 0.13]	0.020 ± 0.005 [0.51 ± 0.13]	0.015 ± 0.005 [0.38 ± 0.13]	0.015 ± 0.005 [0.38 ± 0.13]
RCWP2010	0.197 ± 0.006 [5.00 ± 0.15]	0.098 ± 0.005 [2.49 ± 0.13]	0.020 ± 0.005 [0.51 ± 0.13]	0.020 ± 0.005 [0.51 ± 0.13]	0.020 ± 0.005 [0.51 ± 0.13]
RCWP2512	0.250 ± 0.006 [6.35 ± 0.15]	0.124 ± 0.005 [3.15 ± 0.13]	0.020 ± 0.005 [0.51 ± 0.13]	0.020 ± 0.005 [0.51 ± 0.13]	0.020 ± 0.005 [0.51 ± 0.13]
RCWP5100	0.105 ± 0.005 [2.67 ± 0.13]	0.050 ± 0.005 [1.27 ± 0.13]	0.020 ± 0.005 [0.51 ± 0.13]	0.015 ± 0.005 [0.38 ± 0.13]	0.015 ± 0.005 [0.38 ± 0.13]
RCWP5150	0.155 ± 0.005 [3.94 ± 0.13]	0.050 ± 0.005 [1.27 ± 0.13]	0.020 ± 0.005 [0.51 ± 0.13]	0.015 ± 0.005 [0.38 ± 0.13]	0.015 ± 0.005 [0.38 ± 0.13]
RCWP7225	0.230 ± 0.005 [5.84 ± 0.13]	0.075 ± 0.005 [1.91 ± 0.13]	0.020 ± 0.005 [0.51 ± 0.13]	0.020 ± 0.005 [0.51 ± 0.13]	0.020 ± 0.005 [0.51 ± 0.13]





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