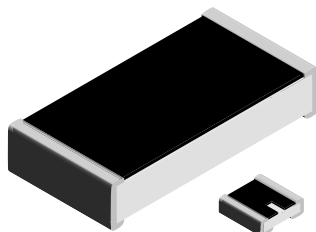


Thick Film Chip Resistors, Industrial



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
- For zero ohm jumpers, see Vishay Dale's RCWP Jumper data sheet
- Compliant to RoHS directive 2002/95/EC



Available

RoHS*
COMPLIANT

STANDARD ELECTRICAL SPECIFICATIONS

GLOBAL MODEL	HISTORICAL MODEL	POWER RATING $P_{70\text{ }^{\circ}\text{C}}$ W (1)	MAXIMUM OPERATING VOLTAGE	TEMPERATURE COEFFICIENT ppm/°C	TOLERANCE %	RESISTANCE RANGE Ω
RCWP0201	RCWP-0201	0.05	30	300 100, 300	± 5 to ± 10 ± 1 to ± 10	10 to 46.4 47 to 1M
RCWP0502	RCWP-0502	0.05	40	300 100, 300	± 2 to ± 10 ± 1 to ± 10	1 to 9.1 10 to 22M
RCWP0302	RCWP-0302	0.04	15	300 100, 300	± 2 to ± 10 ± 1 to ± 10	1 to 9.1 10 to 22M
RCWP0402	RCWP-0402	0.05	30	300 100, 300	± 2 to ± 10 ± 1 to ± 10	1 to 9.1 10 to 22M
RCWP0603	RCWP-0603	0.10	50	300 100, 300	± 2 to ± 10 ± 1 to ± 10	1 to 5.6 5.62 to 22M
RCWP0540	RCWP-540	0.08	40	300 100, 300	± 2 to ± 10 ± 1 to ± 10	1 to 9.1 10 to 22M
RCWP0550	RCWP-550	0.125	50	300 100, 300	± 2 to ± 10 ± 1 to ± 10	1 to 9.1 10 to 22M
RCWP0575	RCWP-575	0.15	70	300 100, 300	± 2 to ± 10 ± 1 to ± 10	1 to 5.6 5.62 to 22M
RCWP5100	RCWP-5100	0.20	100	300 100, 300	± 2 to ± 10 ± 1 to ± 10	1 to 5.6 5.62 to 22M
RCWP1206	RCWP-1206	0.25	100	300 100, 300	± 2 to ± 10 ± 1 to ± 10	1 to 5.6 5.62 to 22M
RCWP5150	RCWP-5150	0.35	125	300 100, 300	± 2 to ± 10 ± 1 to ± 10	1 to 5.6 5.62 to 22M
RCWP1100	RCWP-1100	0.50	100	300 100, 300	± 2 to ± 10 ± 1 to ± 10	1 to 5.6 5.62 to 22M
RCWP7225	RCWP-7225	0.60	200	300 100, 300	± 2 to ± 10 ± 1 to ± 10	1 to 5.6 5.62 to 22M
RCWP2010	RCWP-2010	0.80	200	300 100, 300	± 2 to ± 10 ± 1 to ± 10	1 to 5.6 5.62 to 22M
RCWP2512	RCWP-2512	1.0	200	300 100, 300	± 2 to ± 10 ± 1 to ± 10	1 to 5.6 5.62 to 22M

Notes

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

- Consult factory for extended resistance range

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

GLOBAL PART NUMBER INFORMATION

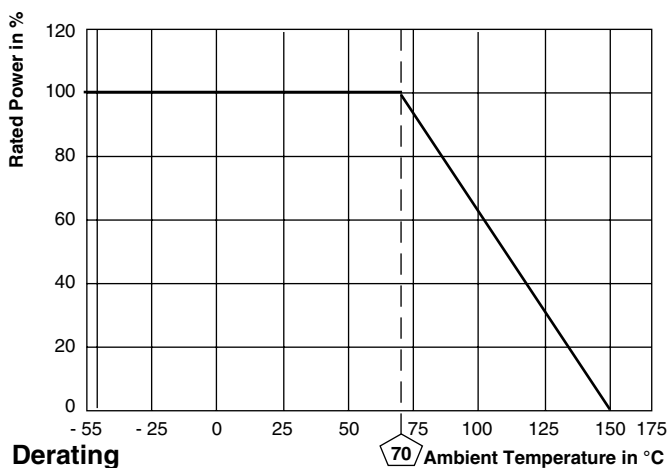
New Global Part Numbering: RCWP510010K0GMWB (preferred part numbering format)

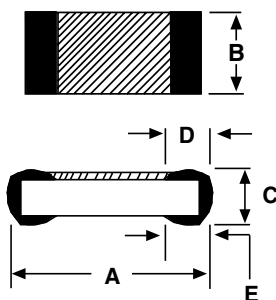
R **C** **W** **P** **5** **1** **0** **0** **1** **0** **K** **0** **G** **M** **W** **B**

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 = 1.3 k Ω 1M00 = 1.0 M Ω 0000 = 0 Ω Jumper	F = $\pm 1\%$ G = $\pm 2\%$ J = $\pm 5\%$ K = $\pm 10\%$ Z = 0 Ω Jumper	K = 100 ppm M = 300 ppm S = Special, 0 Ω Jumper	TP = Tin/lead, T/R (full) S3 = Tin/lead, T/R (1000 pieces) WB = Tin/lead, tray S2 = Tin/lead, T/R (500 pieces) S6 = Tin/lead, T/R (300 pieces) EA = Lead (Pb)-free, T/R (full) EB = Lead (Pb)-free, T/R (1000 pieces) ET = Lead (Pb)-free, tray EC = Lead (Pb)-free, T/R (500 pieces) ED = Lead (Pb)-free, T/R (300 pieces)	Blank = Standard (Dash Number) (Up to 2 digits) From 1 to 99 as applicable 99 = 0 Ω Jumper

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

RCWP-5100	103	G	T03
HISTORICAL MODEL	RESISTANCE VALUE	TOLERANCE CODE	PACKAGING CODE



DIMENSIONS in inches [millimeters]

GLOBAL MODEL	A (Length)	B (Width)	C (Height)	D (Top Term)	E (Bottom Term)
RCWP0201	0.024 ± 0.002 [0.60 ± 0.05]	0.012 ± 0.002 [0.30 ± 0.05]	0.009 ± 0.002 [0.23 ± 0.05]	0.006 ± 0.003 [0.15 ± 0.07]	0.006 ± 0.002 - 0.004 [0.15 ± 0.05 - 0.10]
RCWP0302	0.034 ± 0.004 [0.86 ± 0.10]	0.021 ± 0.003 [0.53 ± 0.08]	0.015 ± 0.003 [0.38 ± 0.08]	0.007 ± 0.005 [0.18 ± 0.13]	0.008 ± 0.005 [0.20 ± 0.13]
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]
RCWP0502	0.055 ± 0.005 [1.40 ± 0.13]	0.023 ± 0.003 [0.58 ± 0.08]	0.015 ± 0.003 [0.38 ± 0.08]	0.010 ± 0.005 [0.25 ± 0.13]	0.015 ± 0.005 [0.38 ± 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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