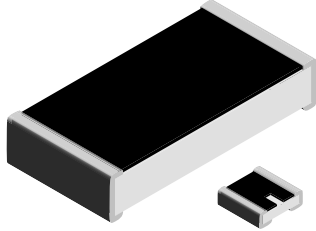


Thick Film Chip Resistors, Industrial, Moisture Resistant



FEATURES

- Manufactured to the DSCC drawings for Military Moisture Resistant chip resistor products
- 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
- Designed to be resistant to the degrading effects of moisture while under power

STANDARD ELECTRICAL SPECIFICATIONS						
VISHAY DALE MODEL	DSCC DRAWING NUMBER	POWER RATING ⁽¹⁾ $P_{70\text{ }^{\circ}\text{C}}$ W	RESISTANCE RANGE Ω	TOLERANCE \pm %	TEMPERATURE COEFFICIENT \pm ppm/°C	MAXIMUM WORKING VOLTAGE ⁽²⁾ V
RCWP0201..69	07010	0.05	10 to 47	5, 10	300	30
			47.5 to 1M	1, 2, 5, 10	100, 300	
RCWP0302..69	04007	0.04	1 to 9.1	2, 5, 10	300	15
			10 to 22M	1, 2, 5, 10	100, 300	
RCWP0402..69	04008	0.05	1 to 9.1	2, 5, 10	300	30
			10 to 22M	1, 2, 5, 10	100, 300	
RCWP0502..69	94025	0.05	1 to 9.1	2, 5, 10	300	40
			10 to 22M	1, 2, 5, 10	100, 300	
RCWP0603..69	04009	0.10	1 to 5.6	2, 5, 10	300	50
			5.62 to 22M	1, 2, 5, 10	100, 300	
RCWP0550..69	94012	0.125	1 to 9.1	2, 5, 10	300	40
			10 to 22M	1, 2, 5, 10	100, 300	
RCWP0575..69	94015	0.15	1 to 5.6	2, 5, 10	300	50
			5.62 to 22M	1, 2, 5, 10	100, 300	
RCWP5100..69	94013	0.20	1 to 5.6	2, 5, 10	300	75
			5.62 to 22M	1, 2, 5, 10	100, 300	
RCWP1206..69	94016	0.25	1 to 5.6	2, 5, 10	300	100
			5.62 to 22M	1, 2, 5, 10	100, 300	
RCWP5150..69	94026	0.15	1 to 5.6	2, 5, 10	300	125
			5.62 to 22M	1, 2, 5, 10	100, 300	
RCWP1100..69	94019	0.50	1 to 5.6	2, 5, 10	300	75
			5.62 to 22M	1, 2, 5, 10	100, 300	
RCWP7225..69	94014	0.225	1 to 5.6	2, 5, 10	300	175
			5.62 to 22M	1, 2, 5, 10	100, 300	
RCWP2010..69	94017	0.80	1 to 5.6	2, 5, 10	300	150
			5.62 to 22M	1, 2, 5, 10	100, 300	
RCWP2512..69	94018	1.00	1 to 5.6	2, 5, 10	300	200
			5.62 to 22M	1, 2, 5, 10	100, 300	

Notes

- Consult factory for extended resistance range.
 - These drawings can be viewed at: www.dscc.dla.mil/Programs/MilSpec/ListDwgs.asp?DocType=DSCCdwg.
- (1) Power rating depends on max. temperature at the solder joint, the component placement density and the substrate material.
 (2) Continuous working voltage shall be $\sqrt{P \times R}$ or maximum working voltage, whichever is less.

RCWP Moisture Resistant



Vishay Dale

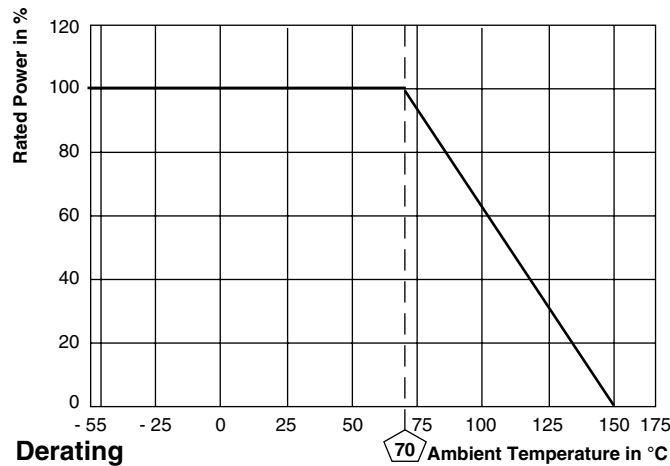
Thick Film Chip Resistors, Industrial,
Moisture Resistant

GLOBAL PART NUMBER INFORMATION

Global Part Numbering: RCWP510010K0GMWB69 (preferred part numbering format)

R **C** **W** **P** **5** **1** **0** **0** **1** **0** **K** **0** **G** **M** **W** **B** **6** **9**

GLOBAL MODEL	RESISTANCE VALUE	TOLERANCE CODE	TEMPERATURE COEFFICIENT	PACKAGING CODE	SPECIAL
(See Standard Electrical Specifications table)	R = Ω K = $k\Omega$ M = $M\Omega$ 10R0 = 10 Ω 1K30 = 1.3 $k\Omega$ 1M00 = 1.0 $M\Omega$	F = $\pm 1\%$ G = $\pm 2\%$ J = $\pm 5\%$ K = $\pm 10\%$	K = 100 ppm M = 300 ppm	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)	69 = Moisture resistant

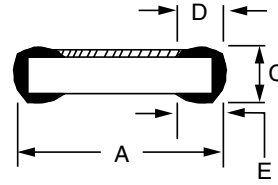
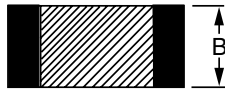


MATERIAL SPECIFICATIONS

Resistive element	Ruthenium oxide
Encapsulation	Epoxy
Substrate	96 % alumina
Termination	Solder-coated nickel barrier
Solder finish	Tin/lead solder alloy



DIMENSIONS in inches (millimeters)



GLOBAL MODEL	A (Length)	B (Width)	C (Height)	D (Top Term)	E (Bottom Term)
RCWP0201...69	0.024 ± 0.002 (0.61 ± 0.05)	0.012 ± 0.002 (0.30 ± 0.05)	0.009 ± 0.002 (0.23 ± 0.05)	0.006 ± 0.003 (0.15 ± 0.08)	0.006 + 0.002 - 0.004 (0.15 + 0.05 - 0.10)
RCWP0302...69	0.034 ± 0.004 (0.86 ± 0.10)	0.021 ± 0.003 (0.53 ± 0.08)	0.013 ± 0.003 (0.33 ± 0.08)	0.007 ± 0.005 (0.18 ± 0.13)	0.008 ± 0.005 (0.20 ± 0.13)
RCWP0402...69	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...69	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)
RCWP0550...69	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...69	0.080 ± 0.005 (2.03 ± 0.13)	0.050 ± 0.005 (1.27 ± 0.13)	0.020 ± 0.005 (0.51 ± 0.13)	0.016 ± 0.008 (0.41 ± 0.20)	0.015 ± 0.005 (0.38 ± 0.13)
RCWP0603...69	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 (0.30 ± 0.13)	0.015 ± 0.005 (0.38 ± 0.13)
RCWP1100...69	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...69	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...69	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...69	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...69	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...69	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...69	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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