Vishay Dale



Thick Film Chip Resistors, Industrial



FEATURES

- Operating temperature range: 55 °C to + 150 °C
- Same materials and construction as MIL-PRF-55342



- 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.

GLOBAL MODEL	HISTORICAL MODEL	POWER RATING	MAXIMUM	TEMPERATURE	TOLERANCE	RESISTANCE
		<i>P</i> _{70 °C} W ¹)	OPERATING VOLTAGE	COEFFICIENT ppm/°C	%	RANGE Ω
RCWP0502	RCWP-0502	0.02	40	300 100, 300	± 2 to ± 10 ± 1 to ± 10	1 - 9.1 10 - 22M
		Zero-Ohm Resistor: $R_{\text{max}} = 30 \text{ m}\Omega$, $I_{\text{max}} = 1.3 \text{ A}$				
RCWP0302	RCWP-0302	0.04	15	300 100, 300	± 5 to ± 10 ± 1 to ± 10	1 - 9.1 10 - 22M
		Zero-Ohm Resistor: $R_{\text{max}} = 30 \text{ m}\Omega$, $I_{\text{max}} = 1.1 \text{ A}$				
RCWP0402	RCWP-0402	0.04	25	100, 300	± 1 to ± 10	1 - 22M
		Zero-Ohm Resistor: $R_{\text{max}} = 30 \text{ m}\Omega$, $I_{\text{max}} = 1.2 \text{ A}$				
RCWP0603	RCWP-0603	0.07	50	100, 300	± 1 to ± 10	1 - 22M
		Zero-Ohm Resistor: $R_{\text{max}} = 30 \text{ m}\Omega$, $I_{\text{max}} = 1.5 \text{ A}$				
RCWP0540	RCWP-540	0.08	40	100, 300	± 1 to ± 10	1 - 22M
		Zero-Ohm Resistor: $R_{\text{max}} = 20 \text{ m}\Omega$, $I_{\text{max}} = 2.2 \text{ A}$				
RCWP0550	RCWP-550	0.10	50	100, 300	± 1 to ± 10	1 - 22M
		Zero-Ohm Resistor: $R_{\text{max}} = 20 \text{ m}\Omega$, $I_{\text{max}} = 2.2 \text{ A}$				
RCWP0575	RCWP-575	0.15	70	100, 300	± 1 to ± 10	1 - 22M
		Zero-Ohm Resistor: $R_{\text{max}} = 20 \text{ m}\Omega$, $I_{\text{max}} = 2.7 \text{ A}$				
RCWP5100	RCWP-5100	0.20	100	100, 300	± 1 to ± 10	1 - 22M
		Zero-Ohm Resistor: $R_{\text{max}} = 25 \text{ m}\Omega$, $I_{\text{max}} = 2.8 \text{ A}$				
RCWP1206	RCWP-1206	0.25	100	100, 300	± 1 to ± 10	1 - 22M
		Zero-Ohm Resistor: $R_{\text{max}} = 25 \text{ m}\Omega$, $I_{\text{max}} = 3.2 \text{ A}$				
RCWP5150	RCWP-5150	0.35	125	100, 300	± 1 to ± 10	1 - 22M
		Zero-Ohm Resistor: $R_{\text{max}} = 35 \text{ m}\Omega$, $I_{\text{max}} = 2.1 \text{ A}$				
RCWP1100	RCWP-1100	0.50	100	100, 300	± 1 to ± 10	1 - 22M
		Zero-Ohm Resistor: $R_{\text{max}} = 20 \text{ m}\Omega$, $I_{\text{max}} = 5 \text{ A}$				
RCWP7225	RCWP-7225	0.60	200	100, 300	± 1 to ± 10	1 - 22M
		Zero-Ohm Resistor: $R_{\text{max}} = 35 \text{ m}\Omega$, $I_{\text{max}} = 2.5 \text{ A}$				
RCWP2010	RCWP-2010	0.80	200	100, 300	± 1 to ± 10	1 - 22M
		Zero-Ohm Resistor: $R_{\text{max}} = 25 \text{ m}\Omega$, $I_{\text{max}} = 5.7 \text{ A}$				
RCWP2512	RCWP-2512	1.0	200	100, 300	± 1 to ± 10	1 - 22M
		Zero-Ohm Resistor:	$R_{\text{max}} = 25 \text{ m}\Omega$, $I_{\text{max}} = 6.3 R$	4		

Notes:

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

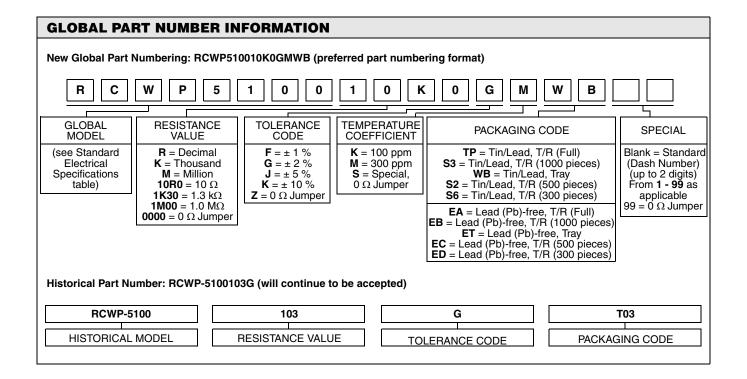
Consult factory for extended resistance range.

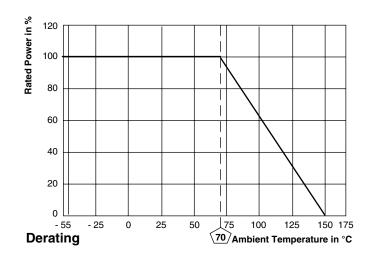






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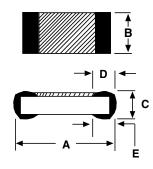




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DIMENSIONS in inches [millimeters]



GLOBAL	A	B	C	D	E
MODEL	(Length)	(Width)	(Height)	(Top Term)	(Bottom Term)
RCWP0302	0.034 ± 0.004 $[0.86 \pm 0.10]$	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	0.020 ± 0.003	0.013 ± 0.003	0.010 ± 0.005	0.010 ± 0.005
	[0.99 ± 0.08]	[0.51 ± 0.08]	[0.33 ± 0.08]	[0.25 ± 0.13]	[0.25 ± 0.13]
RCWP0502	0.055 ± 0.005 $[1.40 \pm 0.13]$	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 $[1.40 \pm 0.13]$	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 $[1.40 \pm 0.13]$	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 $[2.03 \pm 0.13]$	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 $[1.60 \pm 0.13]$	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	0.100 ± 0.005	0.020 ± 0.005	0.015 ± 0.005	0.015 ± 0.005
	[2.67 ± 0.13]	[2.54 ± 0.13]	[0.51 ± 0.13]	[0.38 ± 0.13]	[0.38 ± 0.13]
RCWP1206	0.125 ± 0.005	0.063 ± 0.005	0.020 ± 0.005	0.015 ± 0.005	0.015 ± 0.005
	[3.18 ± 0.13]	[1.60 ± 0.13]	[0.51 ± 0.13]	[0.38 ± 0.13]	[0.38 ± 0.13]
RCWP2010	0.197 ± 0.006	0.098 ± 0.005	0.020 ± 0.005	0.020 ± 0.005	0.020 ± 0.005
	[5.00 ± 0.15]	[2.49 ± 0.13]	[0.51 ± 0.13]	[0.51 ± 0.13]	[0.51 ± 0.13]
RCWP2512	0.250 ± 0.006	0.124 ± 0.005	0.020 ± 0.005	0.020 ± 0.005	0.020 ± 0.005
	[6.35 ± 0.15]	[3.15 ± 0.13]	[0.51 ± 0.13]	[0.51 ± 0.13]	[0.51 ± 0.13]
RCWP5100	0.105 ± 0.005	0.050 ± 0.005	0.020 ± 0.005	0.015 ± 0.005	0.015 ± 0.005
	[2.67 ± 0.13]	[1.27 ± 0.13]	[0.51 ± 0.13]	[0.38 ± 0.13]	[0.38 ± 0.13]
RCWP5150	0.155 ± 0.005	0.050 ± 0.005	0.020 ± 0.005	0.015 ± 0.005	0.015 ± 0.005
	[3.94 ± 0.13]	[1.27 ± 0.13]	[0.51 ± 0.13]	[0.38 ± 0.13]	[0.38 ± 0.13]
RCWP7225	0.230 ± 0.005	0.075 ± 0.005	0.020 ± 0.005	0.020 ± 0.005	0.020 ± 0.005
	[5.84 ± 0.13]	[1.91 ± 0.13]	[0.51 ± 0.13]	[0.51 ± 0.13]	[0.51 ± 0.13]

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