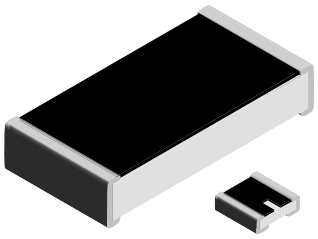
Thick Film Chip Resistors, Industrial



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.

Pb Available

e3

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
(see Standard Electrical Specifications table)

RESISTANCE VALUE
R = Decimal
K = Thousand
M = Million
10R0 = 10Ω
1K30 = 1.3KΩ
1M00 = 1.0MΩ
0000 = 0Ω Jumper

TOLERANCE CODE
F = ± 1%
G = ± 2%
J = ± 5%
K = ± 10%
Z = 0Ω Jumper

TEMPERATURE COEFFICIENT
K = 100ppm
M = 300ppm
S = Special, 0Ω Jumper

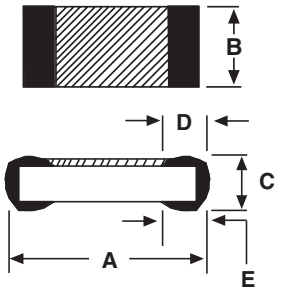
PACKAGING CODE
TP = Tin/Lead, T/R (Full)
S3 = Tin/Lead, T/R (1000 pcs)
WB = Tin/Lead, Tray
S2 = Tin/Lead, T/R (500 pcs)
S6 = Tin/Lead, T/R (300 pcs)
EA = Lead (Pb)-free, T/R (Full)
EB = Lead (Pb)-free, T/R (1000 pcs)
ET = Lead (Pb)-free, Tray
EC = Lead (Pb)-free, T/R (500 pcs)
ED = Lead (Pb)-free, T/R (300 pcs)

SPECIAL
Blank = Standard (Dash Number) (up to 2 digits)
From **1-99** as applicable
99 = 0Ω Jumper

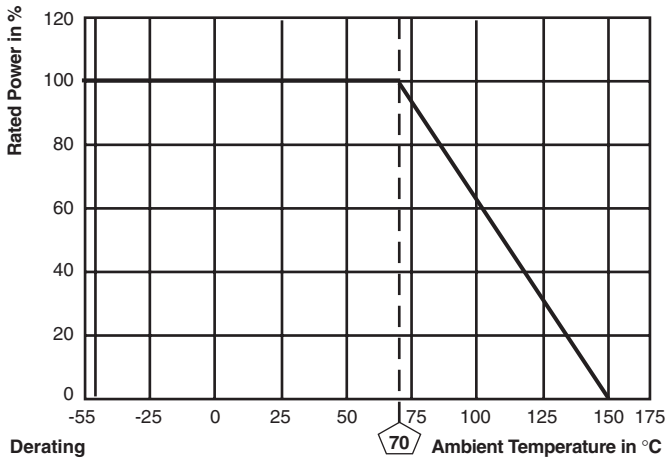
Historical Part Numbering: RCWP-5100103G (will continue to be accepted)

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

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 [02.67 ± 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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