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Vishay Dale

Thick Film Chip Resistors, Industrial, Low Value



FEATURES

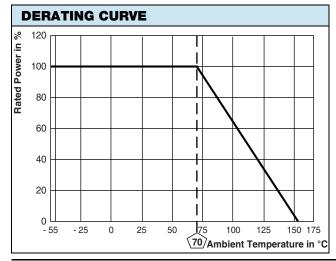
HALOGEN FREE

- Manufactured to the DLA L&M/DSCC drawings for military low value chip resistor products
- Group A and B screening to MIL-PRF-55342
- Extremely low resistance values (0.0499 Ω to 0.999 Ω)
- Termination: tin/lead wraparound termination over nickel barrier
- Operating temperature range: -65 °C to +155 °C
- Material categorization: for definitions of compliance please see <u>www.vishay.com/doc?99912</u>

STANDARD ELECTRICAL SPECIFICATIONS								
GLOBAL MODEL	DLA L&M/DSCC DRAWING NUMBER	CASE SIZE	POWER RATING (1) P _{70 °C} W	MAXIMUM WORKING VOLTAGE ⁽²⁾ V	RESISTANCE RANGE Ω	TOLERANCE ± %	TEMPERATURE COEFFICIENT ± ppm/°C	
RCWP04021A	12012	0402	0.05	0.224	0.0499 to 0.196	1, 2, 5, 10	200, 300	
					0.200 to 0.999	1, 2, 5, 10	100, 200, 300	
RCWP05021A	12003	0502	0.05	0.224	0.0499 to 0.200	1, 2, 5, 10	200, 300	
					0.205 to 0.999	1, 2, 5, 10	100, 200, 300	
RCWP06031A	03022	0603	0.07	0.265	0.0499 to 0.100	1, 2, 5, 10	200, 300	
					0.102 to 0.999	1, 2, 5, 10	100, 200, 300	
RCWP05501A	12004	0505	0.125	0.354	0.0499 to 0.0976	1, 2, 5, 10	200, 300	
					0.100 to 0.999	1, 2, 5, 10	100, 200, 300	
RCWP05751A	12008	0705 ⁽³⁾	0.15	0.388	0.0499 to 0.999	1, 2, 5, 10	100, 200, 300	
RCWP51001A	12005	1005	0.20	0.448	0.0499 to 0.999	1, 2, 5, 10	100, 200, 300	
RCWP12061A	02010	1206	0.25	0.50	0.0499 to 0.999	1, 2, 5, 10	100, 200, 300	
RCWP51501A	12006	1505	0.15	0.388	0.0499 to 0.999	1, 2, 5, 10	100, 200, 300	
RCWP11001A	12011	1010	0.50	0.708	0.0499 to 0.999	1, 2, 5, 10	100, 200, 300	
RCWP72251A	12007	2208	0.225	0.475	0.0499 to 0.999	1, 2, 5, 10	100, 200, 300	
RCWP20101A	12009	2010	0.80	0.895	0.0499 to 0.999	1, 2, 5, 10	100, 200, 300	
RCWP25121A	12010	2512	1.0	1.0	0.0499 to 0.999	1, 2, 5, 10	100, 200, 300	

Notes

- These drawings can be viewed at: www.landandmaritime.dla.mil/Programs/MilSpec/ListDwgs.aspx?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
- (3) MIL case size 0705 and EIA case size 0805 are dimensionally the same

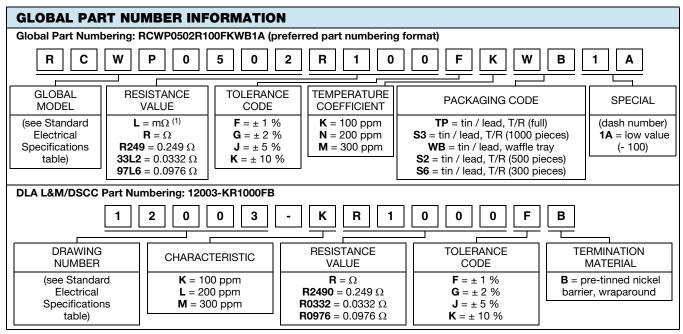


MATERIAL SPECIFICATIONS					
Resistive element	Ruthenium oxide				
Encapsulation	Ероху				
Substrate	96 % alumina				
Termination	Solder-coated nickel barrier				
Solder finish	Tin / lead solder alloy				

Revision: 10-Mar-17 **1** Document Number: 31095
For technical questions, contact: ff2aresistors@vishav.com

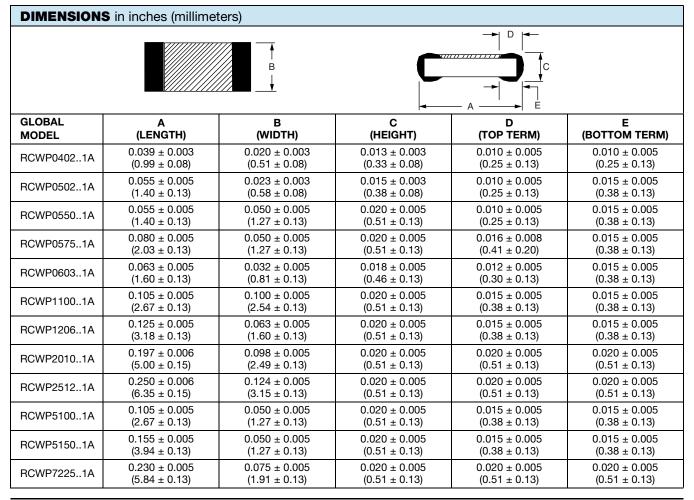


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Notes

- For additional information on packaging, refer to the Surface Mount Resistor Packaging document (<u>www.vishay.com/doc?31543</u>)
- $^{(1)}$ Use "L" for resistance values < 0.1 Ω





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