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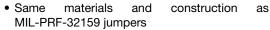
Vishay Dale

Thick Film Chip Resistors, Zero Ohm Jumper, **Industrial / High Reliability**



MATERIAL SPECIFICATIONS					
Resistive element	Conductive metal				
Encapsulation	Ероху				
Substrate	96 % alumina				
Termination	Solder-coated nickel barrier				
Solder finish	Pure tin or tin / lead solder alloy				

FEATURES





• Undergoes group A testing to MIL-PRF-32159 (precap visual inspection, thermal shock, DC resistance, 100 % visual inspection) prior to RoHS shipping



• Termination: tin / ead wraparound termination over nickel barrier. Also available lead (Pb)-free wraparound terminations



- · Capability to develop specific reliability programs designed to customer requirements
- · Size, packaging and materials can be customized for special customer requirements
- Operating temperature range: -65 °C to +155 °C
- Material categorization: for definitions of compliance please see www.vishay.com/doc?99912

Note

This datasheet provides information about parts that are RoHS-compliant and / or parts that are non RoHS-compliant. For example, parts with lead (Pb) terminations are not RoHS-compliant. Please see the information / tables in this datasheet for details

STANDARD ELECTRICAL SPECIFICATIONS							
GLOBAL MODEL	HISTORICAL MODEL	CASE SIZE	POWER RATING (1) P _{70 °C} W	CURRENT RATING A	MAXIMUM RESISTANCE Ω		
RCWP020199	RCWP-0201-99	0201	0.05	0.5	50m		
RCWP030299	RCWP-0302-99	0302	0.04	1.1	30m		
RCWP040299	RCWP-0402-99	0402	0.05	1.2	30m		
RCWP050299	RCWP-0502-99	0502	0.05	1.3	30m		
RCWP054099	RCWP-540-99	0504	0.08	2.2	20m		
RCWP060399	RCWP-0603-99	0603	0.10	1.5	30m		
RCWP055099	RCWP-550-99	0505	0.125	2.2	20m		
RCWP057599	RCWP-575-99	0705 ⁽²⁾	0.15	2.7	20m		
RCWP510099	RCWP-5100-99	1005	0.20	2.8	25m		
RCWP120699	RCWP-1206-99	1206	0.25	3.2	25m		
RCWP515099	RCWP-5150-99	1505	0.35	2.1	35m		
RCWP110099	RCWP-1100-99	1010	0.50	5.0	20m		
RCWP121099	RCWP-1210-99	1210	0.50	5.0	20m		
RCWP722599	RCWP-7225-99	2208	0.60	2.5	35m		
RCWP201099	RCWP-2010-99	2010	0.80	5.7	25m		
RCWP251299	RCWP-2512-99	2512	1.0	6.3	25m		

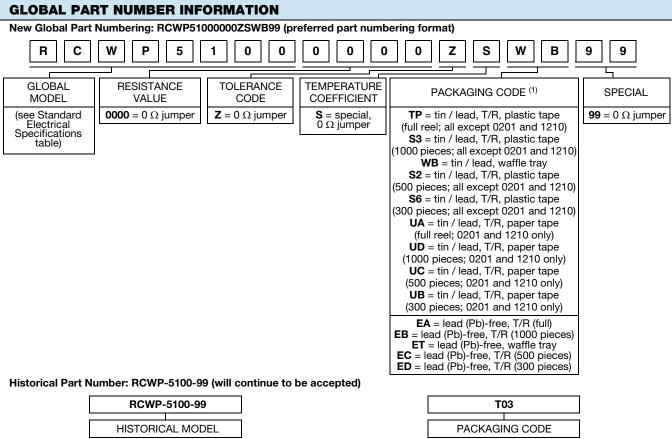
Notes

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

⁽²⁾ MIL case size 0705 and EIA case size 0805 are dimensionally the same

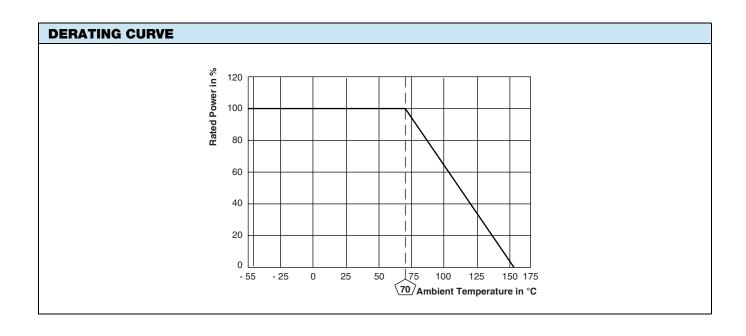


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Notes

- For additional information on packaging, refer to the Surface Mount Resistor Packaging document (www.vishav.com/doc?31543)
- (1) Tape and reel packaging with plastic tape standard for all case sizes except 0201 and 1210. For the 0201 and 1210 case sizes, the product is only offered in tape and reel packaging with paper tape

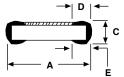




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DIMENSIONS in inches (millimeters)





			΄ Ε			
GLOBAL	A	B	C	D	E	
MODEL	(LENGTH)	(WIDTH)	(HEIGHT)	(TOP TERM)	(BOTTOM TERM)	
RCWP020199	0.024 ± 0.002	0.012 ± 0.002	0.009 ± 0.002	0.006 ± 0.003	0.006 + 0.002 - 0.004	
	(0.61 ± 0.05)	(0.30 ± 0.05)	(0.23 ± 0.05)	(0.15 ± 0.08)	(0.15 + 0.05 - 0.10)	
RCWP030299	0.034 ± 0.004	0.021 ± 0.003	0.013 ± 0.003	0.007 ± 0.005	0.008 ± 0.005	
	(0.86 ± 0.10)	(0.53 ± 0.08)	(0.33 ± 0.08)	(0.18 ± 0.13)	(0.20 ± 0.13)	
RCWP040299	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)	
RCWP050299	0.055 ± 0.005	0.023 ± 0.003	0.015 ± 0.003	0.010 ± 0.005	0.015 ± 0.005	
	(1.40 ± 0.13)	(0.58 ± 0.08)	(0.38 ± 0.08)	(0.25 ± 0.13)	(0.38 ± 0.13)	
RCWP054099	0.055 ± 0.005	0.040 ± 0.005	0.020 ± 0.005	0.010 ± 0.005	0.010 ± 0.005	
	(1.40 ± 0.13)	(1.02 ± 0.13)	(0.51 ± 0.13)	(0.25 ± 0.13)	(0.25 ± 0.13)	
RCWP055099	0.055 ± 0.005	0.050 ± 0.005	0.020 ± 0.005	0.010 ± 0.005	0.015 ± 0.005	
	(1.40 ± 0.13)	(1.27 ± 0.13)	(0.51 ± 0.13)	(0.25 ± 0.13)	(0.38 ± 0.13)	
RCWP057599	0.080 ± 0.005	0.050 ± 0.005	0.020 ± 0.005	0.016 ± 0.008	0.015 ± 0.005	
	(2.03 ± 0.13)	(1.27 ± 0.13)	(0.51 ± 0.13)	(0.41 ± 0.20)	(0.38 ± 0.13)	
RCWP060399	0.063 ± 0.005	0.032 ± 0.005	0.018 ± 0.005	0.012 ± 0.005	0.015 ± 0.005	
	(1.60 ± 0.13)	(0.81 ± 0.13)	(0.46 ± 0.13)	(0.30 ± 0.13)	(0.38 ± 0.13)	
RCWP110099	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)	
RCWP120699	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)	
RCWP121099	0.126 ± 0.008	0.098 ± 0.008	0.022 ± 0.002	0.016 ± 0.008	0.018 ± 0.008	
	(3.20 ± 0.20)	(2.50 ± 0.20)	(0.55 ± 0.05)	(0.40 ± 0.20)	(0.45 ± 0.20)	
RCWP201099	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)	
RCWP251299	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)	
RCWP510099	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)	
RCWP515099	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)	
RCWP722599	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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