RCWP Jumper



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

materials construction Same and as MIL-PRF-32159 jumpers



• 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 with 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⁾ <i>P</i> _{70 °C} W	CURRENT RATING A		
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

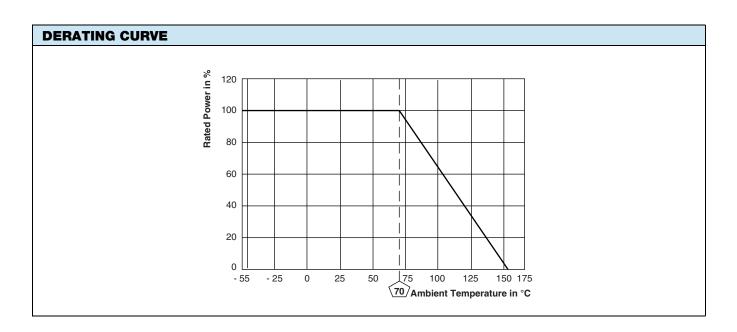


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GLOBAL PA	GLOBAL PART NUMBER INFORMATION					
New Global Part Numbering: RCWP51000000ZSWB99 (preferred part numbering format)						
RC	W P 5 1	0 0	0 0 0	0	ZSWB	9 9
GLOBAL MODEL	VALUE	ODE	EMPERATURE COEFFICIENT		PACKAGING CODE ⁽¹⁾	SPECIAL
(see Standard Electrical Specifications table)	0000 = 0 Ω jumper Z = 0	Ω jumper	S = special, 0 Ω jumper	(full re S3 = (1000 pi (500 pie (500 pie (300 pie (300 pie (1000 (1000 UC (500 UB	tin / lead, T/R, plastic tape ele; all except 0201 and 1210) tin / lead, T/R, plastic tape ecces; all except 0201 and 1210) B = tin / lead, T/R, plastic tapeecces; all except 0201 and 1210)tin / lead, T/R, plastic tapeecces; all except 0201 and 1210)tin / lead, T/R, plastic tapeecces; all except 0201 and 1210)= tin / lead, T/R, paper tapepieces; 0201 and 1210 only)= tin / lead, T/R, paper tapepieces; 0201 and 1210 only)= tin / lead, T/R, paper tapepieces; 0201 and 1210 only)= tin / lead, T/R, paper tapepieces; 0201 and 1210 only)	99 = 0 Ω jumper
				EB = le ET EC = le	a = lead (Pb)-free, T/R (full) ad (Pb)-free, T/R (1000 pieces) = lead (Pb)-free, waffle tray ead (Pb)-free, T/R (500 pieces) ead (Pb)-free, T/R (300 pieces)	
Historical Part Number: RCWP-5100-99 (will continue to be accepted)						
	RCWP-5100-99				Т03	
	HISTORICAL MODEL				PACKAGING CODE]

Notes

- For additional information on packaging, refer to the Surface Mount Resistor Packaging document (www.vishay.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)

	₿ ↓				C
GLOBAL MODEL	A (LENGTH)	B (WIDTH)	C (HEIGHT)	D (TOP TERM)	E (BOTTOM TERM)
RCWP020199	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)
RCWP030299	0.034 ± 0.004 (0.86 ± 0.10)	$\begin{array}{c} 0.021 \pm 0.003 \\ (0.53 \pm 0.08) \end{array}$	$\begin{array}{c} 0.013 \pm 0.003 \\ (0.33 \pm 0.08) \end{array}$	0.007 ± 0.005 (0.18 ± 0.13)	0.008 ± 0.005 (0.20 ± 0.13)
RCWP040299	$\begin{array}{c} 0.039 \pm 0.003 \\ (0.99 \pm 0.08) \end{array}$	$\begin{array}{c} 0.020 \pm 0.003 \\ (0.51 \pm 0.08) \end{array}$	$\begin{array}{c} 0.013 \pm 0.003 \\ (0.33 \pm 0.08) \end{array}$	0.010 ± 0.005 (0.25 ± 0.13)	0.010 ± 0.005 (0.25 ± 0.13)
RCWP050299	0.055 ± 0.005 (1.40 ± 0.13)	$\begin{array}{c} 0.023 \pm 0.003 \\ (0.58 \pm 0.08) \end{array}$	$\begin{array}{c} 0.015 \pm 0.003 \\ (0.38 \pm 0.08) \end{array}$	0.010 ± 0.005 (0.25 ± 0.13)	0.015 ± 0.005 (0.38 ± 0.13)
RCWP054099	0.055 ± 0.005 (1.40 ± 0.13)	$\begin{array}{c} 0.040 \pm 0.005 \\ (1.02 \pm 0.13) \end{array}$	$\begin{array}{c} 0.020 \pm 0.005 \\ (0.51 \pm 0.13) \end{array}$	0.010 ± 0.005 (0.25 ± 0.13)	0.010 ± 0.005 (0.25 ± 0.13)
RCWP055099	0.055 ± 0.005 (1.40 ± 0.13)	0.050 ± 0.005 (1.27 ± 0.13)	$\begin{array}{c} 0.020 \pm 0.005 \\ (0.51 \pm 0.13) \end{array}$	0.010 ± 0.005 (0.25 ± 0.13)	0.015 ± 0.005 (0.38 ± 0.13)
RCWP057599	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)
RCWP060399	0.063 ± 0.005 (1.60 ± 0.13)	$\begin{array}{c} 0.032 \pm 0.005 \\ (0.81 \pm 0.13) \end{array}$	$\begin{array}{c} 0.018 \pm 0.005 \\ (0.46 \pm 0.13) \end{array}$	0.012 ± 0.005 (0.30 ± 0.13)	0.015 ± 0.005 (0.38 ± 0.13)
RCWP110099	0.105 ± 0.005 (2.67 ± 0.13)	0.100 ± 0.005 (2.54 ± 0.13)	$\begin{array}{c} 0.020 \pm 0.005 \\ (0.51 \pm 0.13) \end{array}$	0.015 ± 0.005 (0.38 ± 0.13)	0.015 ± 0.005 (0.38 ± 0.13)
RCWP120699	0.125 ± 0.005 (3.18 ± 0.13)	$\begin{array}{c} 0.063 \pm 0.005 \\ (1.60 \pm 0.13) \end{array}$	$\begin{array}{c} 0.020 \pm 0.005 \\ (0.51 \pm 0.13) \end{array}$	0.015 ± 0.005 (0.38 ± 0.13)	0.015 ± 0.005 (0.38 ± 0.13)
RCWP121099	0.126 ± 0.008 (3.20 ± 0.20)	0.098 ± 0.008 (2.50 ± 0.20)	$\begin{array}{c} 0.022 \pm 0.002 \\ (0.55 \pm 0.05) \end{array}$	0.016 ± 0.008 (0.40 ± 0.20)	0.018 ± 0.008 (0.45 ± 0.20)
RCWP201099	0.197 ± 0.006 (5.00 ± 0.15)	0.098 ± 0.005 (2.49 ± 0.13)	$\begin{array}{c} 0.020 \pm 0.005 \\ (0.51 \pm 0.13) \end{array}$	0.020 ± 0.005 (0.51 ± 0.13)	0.020 ± 0.005 (0.51 ± 0.13)
RCWP251299	0.250 ± 0.006 (6.35 ± 0.15)	0.124 ± 0.005 (3.15 ± 0.13)	$\begin{array}{c} 0.020 \pm 0.005 \\ (0.51 \pm 0.13) \end{array}$	0.020 ± 0.005 (0.51 ± 0.13)	0.020 ± 0.005 (0.51 ± 0.13)
RCWP510099	0.105 ± 0.005 (2.67 ± 0.13)	0.050 ± 0.005 (1.27 ± 0.13)	$\begin{array}{c} 0.020 \pm 0.005 \\ (0.51 \pm 0.13) \end{array}$	0.015 ± 0.005 (0.38 ± 0.13)	0.015 ± 0.005 (0.38 ± 0.13)
RCWP515099	0.155 ± 0.005 (3.94 ± 0.13)	0.050 ± 0.005 (1.27 ± 0.13)	$\begin{array}{c} 0.020 \pm 0.005 \\ (0.51 \pm 0.13) \end{array}$	0.015 ± 0.005 (0.38 ± 0.13)	$\begin{array}{c} 0.015 \pm 0.005 \\ (0.38 \pm 0.13) \end{array}$
RCWP722599	0.230 ± 0.005 (5.84 ± 0.13)	0.075 ± 0.005 (1.91 ± 0.13)	$\begin{array}{c} 0.020 \pm 0.005 \\ (0.51 \pm 0.13) \end{array}$	0.020 ± 0.005 (0.51 ± 0.13)	0.020 ± 0.005 (0.51 ± 0.13)

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