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Vishay Dale

Thick Film Chip Resistors, Zero Ohm Jumper, Military / Established Reliability MIL-PRF-32159 Qualified, Type RCZ



FEATURES

HALOGEN FREE

- Fully conforms to the requirements MIL-PRF-32159
- · Established reliability verified failure rate; M and T levels
- 100 % group A screening per MIL-PRF-32159
- Termination style B tin / lead wraparound over nickel barrier
- Operating temperature range is -65 °C to +150 °C
 For MIL-PRF-55342 chip resistors, see Vishay Dale's RCWPM (Military M (www.vishay.com/doc?31010) RCWPM M/D55342) datasheet
- Material categorization: for definitions of compliance please see www.vishay.com/doc?99912

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STANDARD ELECTRICAL SPECIFICATIONS							
VISHAY DALE MODEL	MIL-PRF-32159 STYLE	MIL SPEC. SHEET	TERM.	CASE SIZE	POWER RATING P _{70 °C} W	CURRENT RATING A	MAXIMUM RESISTANCE Ω
RCWPM-0502-99, RCWPM-0502-5	RCZ0502	01	В	0502	0.05	1.3	30m
RCWPM-550-99, RCWPM-550-5	RCZ0505	02	В	0505	0.100	2.2	20m
RCWPM-5100-99, RCWPM-5100-5	RCZ1005	03	В	1005	0.20	2.8	25m
RCWPM-5150-99, RCWPM-5150-5	RCZ1505	04	В	1505	0.15	2.1	35m
RCWPM-7225-99, RCWPM-7225-5	RCZ2208	05	В	2208	0.225	2.5	35m
RCWPM-575-99, RCWPM-575-5	RCZ0705	06	В	0705 ⁽¹⁾	0.15	2.7	20m
RCWPM-1206-99, RCWPM-1206-5	RCZ1206	07	В	1206	0.25	3.2	25m
RCWPM-2010-99, RCWPM-2010-5	RCZ2010	08	В	2010	0.80	5.7	25m
RCWPM-2512-99, RCWPM-2512-5	RCZ2512	09	В	2512	1.0	6.3	25m
RCWPM-1100-99, RCWPM-1100-5	RCZ1010	10	В	1010	0.50	5.0	20m
RCWPM-0402-99, RCWPM-0402-5	RCZ0402	11	В	0402	0.04	1.2	30m
RCWPM-0603-99, RCWPM-0603-5	RCZ0603	12	В	0603	0.07	1.5	30m
RCWPM-0302-99, RCWPM-0302-5	RCZ0302	13	В	0302	0.035	1.1	30m

DSCC has created a series of drawings to support the need for zero ohm jumper product. Vishay Dale is listed as a resource on these drawings as follows:

DSCC DRAWING NUMBER	VISHAY DALE MODEL	TERM.	MAXIMUM RESISTANCE mΩ	MAX. CURRENT RATING A	MAXIMUM WORKING VOLTAGE V
03011	RCWPM020199	В	50	0.5	30
03012	RCWPM030299	В	20	1.1	15
03014	RCWPM040299	В	25	1.2	30
88032	RCWPM050299	В	20	1.3	40
03013	RCWPM060399	В	25	1.5	50
03002	RCWPM055099	В	25	2.2	40
90048	RCWPM057599	В	20	2.7	50
90049	RCWPM510099	В	30	2.8	75
94011	RCWPM120699	В	20	3.2	100
90092	RCWPM515099	В	40	2.1	125
87011	RCWPM110099	В	20	5.0	75
90047	RCWPM722599	В	40	2.5	175
03015	RCWPM201099	В	40	5.7	150
03016	RCWPM251299	В	40	6.3	200

These drawings can be viewed at: www.landandmaritime.dla.mil/Programs/MilSpec/ListDwgs.aspx?DocTYPE=DSCCdwg

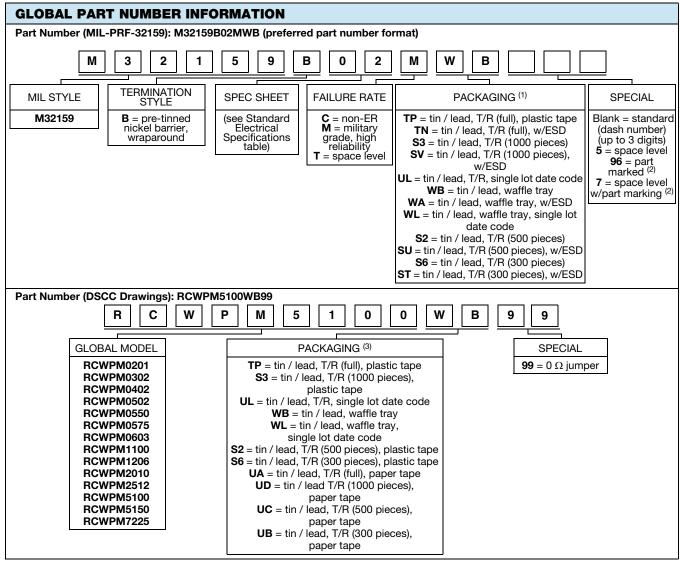
Revision: 10-Mar-17 Document Number: 31028

⁽¹⁾ 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.vishay.com/doc?31543)
- (1) Products with space level failure rates are only offered in packaging codes with ESD overpack and labeling. For all other failure rates, the ESD pack codes are an optional type of packaging
- (2) Optional MIL spec part marking is not offered for the slash sheet 01, 02, 11, and 13 sizes
- (3) Tape and Reel packaging with plastic tape standard for all case sizes except 0201. For the 0201 case size, the product is only offered in Tape and Reel packaging with paper tape

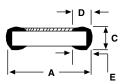


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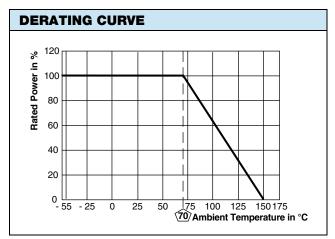
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DIMENSIONS in inches (millimeters)





VISHAY DALE MODEL	MIL-PRF-32159 STYLE	MIL. SPEC. SHEET	A (LENGTH)	B (WIDTH)	C (HEIGHT)	(TOP TERM)	E (BOTTOM TERM)
RCWPM-0502	RCZ0502	01	0.055 ± 0.005 (1.40 ± 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)
RCWPM-550	RCZ0505	02	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)
RCWPM-5100	RCZ1005	03	0.105 ± 0.005 (2.67 ± 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)
RCWPM-5150	RCZ1505	04	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)
RCWPM-7225	RCZ2208	05	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)
RCWPM-575	RCZ0705	06	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)
RCWPM-1206	RCZ1206	07	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)
RCWPM-2010	RCZ2010	08	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)
RCWPM-2512	RCZ2512	09	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)
RCWPM-1100	RCZ1010	10	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)
RCWPM-0402	RCZ0402	11	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)
RCWPM-0603	RCZ0603	12	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 (0.30 ± 0.13)	0.015 ± 0.005 (0.38 ± 0.13)
RCWPM-0302	RCZ0302	13	0.034 ± 0.004 (0.86 ± 0.10)	0.021 ± 0.003 (0.53 ± 0.08)	0.013 ± 0.003 (0.33 ± 0.08)	0.007 ± 0.005 (0.18 ± 0.13)	0.008 ± 0.005 (0.20 ± 0.13)
RCWPM-0201			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)



CAGE CODE: 91637 and 2799A (formerly SH903)

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

Revision: 10-Mar-17 3 Document Number: 31028



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