# Thick Film Chip Resistors, Military / Established Reliability MIL-PRF-55342 Qualified, Type RM 



## features

HALOGEN

- Fully conforms to the requirements of FREE MIL-PRF-55342
- Established reliability - verified failure rate; M, P, R, U, S, V, and T levels
- Construction is sulfur impervious against a high sulfur environment (ASTM B 809-95 test method)
- 100 \% group A screening per MIL-PRF-55342
- Termination style B - tin / lead wraparound over nickel barrier
- Operating temperature range is $-65^{\circ} \mathrm{C}$ to $+150^{\circ} \mathrm{C}$
- For MIL-PRF-32159 zero ohm jumpers, see Vishay Dale's RCWPM Jumper (Military M32159) datasheet (www.vishay.com/doc?31028)
- Material categorization: for definitions of compliance please see www.vishay.com/doc?99912

| STANDARD ELECTRICAL SPECIFICATIONS |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| VISHAY DALE MODEL | $\begin{array}{\|c} \text { MIL-PRF-55342 } \\ \text { STYLE } \end{array}$ | $\begin{array}{\|c} \text { MIL } \\ \text { SPEC. } \\ \text { SHEET } \end{array}$ | TERM. | CASE <br> SIZE | POWER RATING ${ }^{P_{70}}{ }^{\circ}{ }^{\circ}$ | $\begin{array}{\|c\|} \hline \text { MAX. } \\ \text { WORKING } \\ \text { VOLTAGGE } \\ \mathbf{v} \\ \hline \end{array}$ | RESISTANCE <br> RANGE <br> $\Omega$ | $\underset{ \pm \%}{\text { TOLERANCE }}$ | TEMPERATURE COEFFICIENT ${ }^{(2)}$ $\pm \mathrm{ppm} /{ }^{\circ} \mathrm{C}$ |
| RCWPM-0502, RCWPM-0502-98 | RM0502 | 01 | B | 0502 | 0.05 | 40 | 1 to 9.1 | 2, 5, 10 | 200, 300 |
|  |  |  |  |  |  |  | 10 to 22M | 1, 2, 5, 10 | 100, 200, 300 |
|  |  |  |  |  |  |  | 10 to 10M | 0.5 | 100, 200, 300 |
| RCWPM-550, RCWPM-550-98 | RM0505 | 02 | B | 0505 | 0.125 | 40 | 1 to 9.1 | 2, 5, 10 | 200, 300 |
|  |  |  |  |  |  |  | 10 to 22M | 1, 2, 5, 10 | 100, 200, 300 |
|  |  |  |  |  |  |  | 10 to 10M | 0.5 | 100, 200, 300 |
| RCWPM-5100, RCWPM-5100-98 | RM1005 | 03 | B | 1005 | 0.20 | 75 | 1 to 5.1 | 2, 5, 10 | 200, 300 |
|  |  |  |  |  |  |  | 5.6 to 22M | 1, 2, 5, 10 | 100, 200, 300 |
|  |  |  |  |  |  |  | 5.62 to 10M | 0.5 | 100, 200, 300 |
| RCWPM-5150, RCWPM-5150-98 | RM1505 | 04 | B | 1505 | 0.15 | 125 | 1 to 5.1 | 2, 5, 10 | 200, 300 |
|  |  |  |  |  |  |  | 5.6 to 22M | 1, 2, 5, 10 | 100, 200, 300 |
|  |  |  |  |  |  |  | 5.62 to 10M | 0.5 | 100, 200, 300 |
| RCWPM-7225, RCWPM-7225-98 | RM2208 | 05 | B | 2208 | 0.225 | 175 | 1 to 5.1 | 2, 5, 10 | 200, 300 |
|  |  |  |  |  |  |  | 5.6 to 22M | 1, 2, 5, 10 | 100, 200, 300 |
|  |  |  |  |  |  |  | 5.62 to 10M | 0.5 | 100, 200, 300 |
| RCWPM-575, RCWPM-575-98 | RM0705 | 06 | B | $0705{ }^{(3)}$ | 0.15 | 50 | 1 to 5.1 | 2, 5, 10 | 200, 300 |
|  |  |  |  |  |  |  | 5.6 to 22M | 1, 2, 5, 10 | 100, 200, 300 |
|  |  |  |  |  |  |  | 5.62 to 10M | 0.5 | 100, 200, 300 |
| RCWPM-1206, RCWPM-1206-98 | RM1206 | 07 | B | 1206 | 0.25 | 100 | 1 to 5.1 | 2, 5, 10 | 200, 300 |
|  |  |  |  |  |  |  | 5.6 to 22M | 1, 2, 5, 10 | 100, 200, 300 |
|  |  |  |  |  |  |  | 5.62 to 10M | 0.5 | 100, 200, 300 |
| RCWPM-2010, RCWPM-2010-98 | RM2010 | 08 | B | 2010 | 0.80 | 150 | 1 to 5.1 | 2, 5, 10 | 200, 300 |
|  |  |  |  |  |  |  | 5.6 to 22M | 1, 2, 5, 10 | 100, 200, 300 |
|  |  |  |  |  |  |  | 5.62 to 10M | 0.5 | 100, 200, 300 |
| RCWPM-2512, RCWPM-2512-98 | RM2512 | 09 | B | 2512 | 1.0 | 200 | 1 to 5.1 | 2, 5, 10 | 200, 300 |
|  |  |  |  |  |  |  | 5.6 to 22M | 1, 2, 5, 10 | 100, 200, 300 |
|  |  |  |  |  |  |  | 5.62 to 10M | 0.5 | 100, 200, 300 |
| RCWPM-1100, RCWPM-1100-98 | RM1010 | 10 | B | 1010 | 0.50 | 75 | 1 to 5.1 | 2, 5, 10 | 200, 300 |
|  |  |  |  |  |  |  | 5.6 to 22M | 1, 2, 5, 10 | 100, 200, 300 |
|  |  |  |  |  |  |  | 5.62 to 10M | 0.5 | 100, 200, 300 |
| RCWPM-0402, RCWPM-0402-98 | RM0402 | 11 | B | 0402 | 0.05 | 30 | 1 to 9.1 | 2, 5, 10 | 200, 300 |
|  |  |  |  |  |  |  | 10 to 22M | 1, 2, 5, 10 | 100, 200, 300 |
|  |  |  |  |  |  |  | 10 to 10M | 0.5 | 100, 200, 300 |

## STANDARD ELECTRICAL SPECIFICATIONS

| VISHAY DALE MODEL | MIL-PRF-55342 STYLE | MIL SPEC. SHEET | TERM. | $\begin{aligned} & \text { CASE } \\ & \text { SIZE } \end{aligned}$ | POWER RATING $P_{70}{ }^{\circ} \mathrm{C}$ W | MAX. WORKING VOLTAGE ${ }^{(1)}$ V | RESISTANCE RANGE $\Omega$ | $\begin{gathered} \text { TOLERANCE } \\ \pm \% \end{gathered}$ | TEMPERATURE COEFFICIENT ${ }^{(2)}$ $\pm \mathrm{ppm} /{ }^{\circ} \mathrm{C}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| RCWPM-0603, RCWPM-0603-98 | RM0603 | 12 | B | 0603 | 0.10 | 50 | 1 to 5.1 | 2, 5, 10 | 200, 300 |
|  |  |  |  |  |  |  | 5.6 to 22M | 1, 2, 5, 10 | 100, 200, 300 |
|  |  |  |  |  |  |  | 5.62 to 10M | 0.5 | 100, 200, 300 |
| RCWPM-0302, RCWPM-0302-98 | RM0302 | 13 | B | 0302 | 0.04 | 15 | 1 to 9.1 | 2, 5, 10 | 200, 300 |
|  |  |  |  |  |  |  | 10 to 22M | 1,2,5,10 | 100, 200, 300 |
|  |  |  |  |  |  |  | 10 to 10M | 0.5 | 100, 200, 300 |

## Notes

DSCC has created a series of drawings to support the need for 0201-sized product. Vishay Dale is listed as a resource on this drawing as follows:

| DSCC DRAWING <br> NUMBER | VISHAY DALE <br> MODEL | TERM. | POWER RATING <br> $\boldsymbol{P}_{\mathbf{7 0}}{ }^{\circ} \mathbf{C}$ | RES. RANGE <br> $\boldsymbol{\Omega}$ | RES. TOL. <br> $\mathbf{\pm} \%$ | TEMP. COEF. <br> $\mathbf{m p p m} /{ }^{\circ} \mathbf{C}$ | MAX. WORKING <br> VOLTAGE (1) <br> $\mathbf{V}$ |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 07009 | RCWP-0201 | B | 0.05 | 10 to 46.4 <br> 47 to 1 M | 1,5 | 200 | 100 |

This drawing can be viewed at: www.landandmaritime.dla.mil/Programs/MilSpec/ListDwgs.aspx?DocTYPE=DSCCdwg
${ }^{(1)}$ Continuous working voltage shall be $\sqrt{P \times R}$ or maximum working voltage, whichever is less
(2) Characteristics: $\mathrm{K}= \pm 100 \mathrm{ppm} /{ }^{\circ} \mathrm{C} ; \mathrm{L}= \pm 200 \mathrm{ppm} /{ }^{\circ} \mathrm{C} ; \mathrm{M}= \pm 300 \mathrm{ppm} /{ }^{\circ} \mathrm{C}$
(3) MIL case size 0705 and EIA case size 0805 are dimensionally the same

## GLOBAL PART NUMBER INFORMATION

New Global Part Numbering: M55342M02B10E0RWB (preferred part number format)


## 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) Failure rates $U$ and $V$ require group $A$ and $B$ inspection ran on each production lot
(3) Add a "D" after the packaging code at the end of the global part number to specify Vishay Dale Thick Film product with a tolerance of $0.5 \%$
(4) MIL spec option 1, 2, and 3 part marking is not offered for the slash sheet $01,02,11$, and 13 sizes

| RESISTANCE TOLERANCE AND MULTIPLIERS |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| TOLERANCE |  |  |  |  | MULTIPLIER | VALUE RANGE ( $\Omega$ ) |
| $\pm 0.5$ \% | $\pm 1$ \% | $\pm 2$ \% | $\pm 5$ \% | $\pm 10 \%$ |  |  |
| W | D | G | $J$ | M | 1 | 1 to 9xx |
| Y | E | H | K | N | 1000 | 1K to 9xxK |
| Z | F | T | L | P | 1000000 | 1M to 22M |
| Examples: $\begin{aligned} & 38 \mathrm{~W} 8=38.8 \\ & 10 Y 0=10 \mathrm{k} \\ & 988 \mathrm{~W}=988 \\ & 2 Z 13=2.13 \end{aligned}$ |  | $\begin{aligned} & 11 \mathrm{D} 3=11.3 \Omega \pm 1 \% \\ & 10 \mathrm{EO}=10 \mathrm{k} \Omega \pm 1 \% \\ & 332 \mathrm{D}=332 \Omega \pm 1 \% \\ & 2 \mathrm{~F} 21=2.21 \mathrm{M} \Omega \pm 1 \% \\ & 51 \mathrm{GO}=51 \Omega \pm 2 \% \\ & 10 \mathrm{HO}=10 \mathrm{k} \Omega \pm 2 \% \\ & 33 \mathrm{HO}=33 \mathrm{k} \Omega \pm 2 \% \\ & 22 \mathrm{TO}=22 \mathrm{M} \Omega \pm 2 \% \end{aligned}$ |  |  | $\begin{aligned} & 15 \mathrm{JO}=15 \Omega \pm 5 \% \\ & 10 \mathrm{KO}=10 \mathrm{k} \Omega \pm 5 \% \\ & 560 \mathrm{~K}=560 \mathrm{k} \Omega \pm 5 \% \\ & 8 \mathrm{~L} 20=8.2 \mathrm{M} \Omega \pm 5 \% \\ & 10 \mathrm{MO}=10 \Omega \pm 10 \% \\ & 10 \mathrm{NO}=10 \mathrm{k} \Omega \pm 10 \% \\ & 2 \mathrm{P} 70=2.7 \mathrm{M} \Omega \pm 10 \% \\ & 8 \mathrm{P} 20=8.2 \mathrm{M} \Omega \pm 10 \% \end{aligned}$ |  |

## DIMENSIONS in inches (millimeters)



| VISHAY DALE MODEL | MIL-PRF-55342 STYLE | $\begin{gathered} \text { MIL } \\ \text { SPEC. } \\ \text { SHEET } \end{gathered}$ | A (LENGTH) | $\begin{gathered} \text { B } \\ \text { (WIDTH) } \end{gathered}$ | $\begin{gathered} \text { C } \\ \text { (HEIGHT) } \end{gathered}$ | $\underset{\text { (TOP TERM) }}{\text { D }}$ | (BOTTOM TERM) |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| RCWPM-0502 | RM0502 | 01 | $\begin{gathered} 0.055 \pm 0.005 \\ (1.40 \pm 0.13) \end{gathered}$ | $\begin{gathered} 0.023 \pm 0.003 \\ (0.58 \pm 0.08) \end{gathered}$ | $\begin{gathered} 0.015 \pm 0.003 \\ (0.38 \pm 0.08) \end{gathered}$ | $\begin{gathered} 0.010 \pm 0.005 \\ (0.25 \pm 0.13) \\ \hline \end{gathered}$ | $\begin{gathered} 0.015 \pm 0.005 \\ (0.38 \pm 0.13) \end{gathered}$ |
| RCWPM-550 | RM0505 | 02 | $\begin{gathered} 0.055 \pm 0.005 \\ (1.40 \pm 0.13) \end{gathered}$ | $\begin{gathered} 0.050 \pm 0.005 \\ (1.27 \pm 0.13) \end{gathered}$ | $\begin{gathered} 0.020 \pm 0.005 \\ (0.51 \pm 0.13) \end{gathered}$ | $\begin{gathered} 0.010 \pm 0.005 \\ (0.25 \pm 0.13) \end{gathered}$ | $\begin{gathered} 0.015 \pm 0.005 \\ (0.38 \pm 0.13) \end{gathered}$ |
| RCWPM-5100 | RM1005 | 03 | $\begin{gathered} 0.105 \pm 0.005 \\ (2.67 \pm 0.13) \end{gathered}$ | $\begin{gathered} 0.050 \pm 0.005 \\ (1.27 \pm 0.13) \end{gathered}$ | $\begin{gathered} 0.020 \pm 0.005 \\ (0.51 \pm 0.13) \end{gathered}$ | $\begin{gathered} 0.015 \pm 0.005 \\ (0.38 \pm 0.13) \end{gathered}$ | $\begin{gathered} 0.015 \pm 0.005 \\ (0.38 \pm 0.13) \\ \hline \end{gathered}$ |
| RCWPM-5150 | RM1505 | 04 | $\begin{gathered} 0.155 \pm 0.005 \\ (3.94 \pm 0.13) \end{gathered}$ | $\begin{gathered} 0.050 \pm 0.005 \\ (1.27 \pm 0.13) \end{gathered}$ | $\begin{gathered} 0.020 \pm 0.005 \\ (0.51 \pm 0.13) \\ \hline \end{gathered}$ | $\begin{gathered} 0.015 \pm 0.005 \\ (0.38 \pm 0.13) \end{gathered}$ | $\begin{gathered} 0.015 \pm 0.005 \\ (0.38 \pm 0.13) \\ \hline \end{gathered}$ |
| RCWPM-7225 | RM2208 | 05 | $\begin{gathered} 0.230 \pm 0.005 \\ (5.84 \pm 0.13) \end{gathered}$ | $\begin{gathered} 0.075 \pm 0.005 \\ (1.91 \pm 0.13) \end{gathered}$ | $\begin{gathered} 0.020 \pm 0.005 \\ (0.51 \pm 0.13) \end{gathered}$ | $\begin{gathered} 0.020 \pm 0.005 \\ (0.51 \pm 0.13) \end{gathered}$ | $\begin{gathered} 0.020 \pm 0.005 \\ (0.51 \pm 0.13) \end{gathered}$ |
| RCWPM-575 | RM0705 | 06 | $\begin{gathered} 0.080 \pm 0.005 \\ (2.03 \pm 0.13) \end{gathered}$ | $\begin{gathered} 0.050 \pm 0.005 \\ (1.27 \pm 0.13) \end{gathered}$ | $\begin{gathered} 0.020 \pm 0.005 \\ (0.51 \pm 0.13) \end{gathered}$ | $\begin{gathered} 0.016 \pm 0.008 \\ (0.41 \pm 0.20) \end{gathered}$ | $\begin{gathered} 0.015 \pm 0.005 \\ (0.38 \pm 0.13) \end{gathered}$ |
| RCWPM-1206 | RM1206 | 07 | $\begin{gathered} 0.125 \pm 0.005 \\ (3.18 \pm 0.13) \end{gathered}$ | $\begin{gathered} 0.063 \pm 0.005 \\ (1.60 \pm 0.13) \end{gathered}$ | $\begin{gathered} 0.020 \pm 0.005 \\ (0.51 \pm 0.13) \end{gathered}$ | $\begin{gathered} 0.015 \pm 0.005 \\ (0.38 \pm 0.13) \end{gathered}$ | $\begin{gathered} 0.015 \pm 0.005 \\ (0.38 \pm 0.13) \end{gathered}$ |
| RCWPM-2010 | RM2010 | 08 | $\begin{gathered} \hline 0.197 \pm 0.006 \\ (5.00 \pm 0.15) \end{gathered}$ | $\begin{gathered} 0.098 \pm 0.005 \\ (2.49 \pm 0.13) \end{gathered}$ | $\begin{gathered} 0.020 \pm 0.005 \\ (0.51 \pm 0.13) \end{gathered}$ | $\begin{gathered} 0.020 \pm 0.005 \\ (0.51 \pm 0.13) \end{gathered}$ | $\begin{gathered} 0.020 \pm 0.005 \\ (0.51 \pm 0.13) \end{gathered}$ |
| RCWPM-2512 | RM2512 | 09 | $\begin{gathered} 0.250 \pm 0.005 \\ (6.35 \pm 0.13) \\ \hline \end{gathered}$ | $\begin{gathered} 0.124 \pm 0.005 \\ (3.15 \pm 0.13) \\ \hline \end{gathered}$ | $\begin{gathered} 0.020 \pm 0.005 \\ (0.51 \pm 0.13) \\ \hline \end{gathered}$ | $\begin{gathered} 0.020 \pm 0.005 \\ (0.51 \pm 0.13) \\ \hline \end{gathered}$ | $\begin{gathered} 0.020 \pm 0.005 \\ (0.51 \pm 0.13) \\ \hline \end{gathered}$ |
| RCWPM-1100 | RM1010 | 10 | $\begin{gathered} 0.105 \pm 0.005 \\ (2.67 \pm 0.13) \\ \hline \end{gathered}$ | $\begin{gathered} 0.100 \pm 0.005 \\ (2.54 \pm 0.13) \\ \hline \end{gathered}$ | $\begin{gathered} 0.020 \pm 0.005 \\ (0.51 \pm 0.13) \\ \hline \end{gathered}$ | $\begin{gathered} 0.015 \pm 0.005 \\ (0.38 \pm 0.13) \\ \hline \end{gathered}$ | $\begin{gathered} 0.015 \pm 0.005 \\ (0.38 \pm 0.13) \\ \hline \end{gathered}$ |
| RCWPM-0402 | RM0402 | 11 | $\begin{gathered} 0.039 \pm 0.003 \\ (0.99 \pm 0.08) \end{gathered}$ | $\begin{gathered} 0.020 \pm 0.003 \\ (0.51 \pm 0.08) \end{gathered}$ | $\begin{gathered} 0.013 \pm 0.003 \\ (0.33 \pm 0.08) \end{gathered}$ | $\begin{gathered} 0.010 \pm 0.005 \\ (0.25 \pm 0.13) \end{gathered}$ | $\begin{gathered} 0.010 \pm 0.005 \\ (0.25 \pm 0.13) \end{gathered}$ |
| RCWPM-0603 | RM0603 | 12 | $\begin{gathered} 0.063 \pm 0.005 \\ (1.60 \pm 0.13) \\ \hline \end{gathered}$ | $\begin{gathered} 0.032 \pm 0.005 \\ (0.81 \pm 0.13) \\ \hline \end{gathered}$ | $\begin{gathered} 0.018 \pm 0.005 \\ (0.46 \pm 0.13) \\ \hline \end{gathered}$ | $\begin{gathered} 0.012 \pm 0.005 \\ (0.30 \pm 0.13) \\ \hline \end{gathered}$ | $\begin{gathered} 0.015 \pm 0.005 \\ (0.38 \pm 0.13) \\ \hline \end{gathered}$ |
| RCWPM-0302 | RM0302 | 13 | $\begin{gathered} 0.034 \pm 0.004 \\ (0.86 \pm 0.10) \end{gathered}$ | $\begin{gathered} 0.021 \pm 0.003 \\ (0.53 \pm 0.08) \end{gathered}$ | $\begin{gathered} 0.013 \pm 0.003 \\ (0.33 \pm 0.08) \end{gathered}$ | $\begin{gathered} 0.007 \pm 0.005 \\ (0.18 \pm 0.13) \end{gathered}$ | $\begin{gathered} 0.008 \pm 0.005 \\ (0.20 \pm 0.13) \end{gathered}$ |
| RCWP-0201 |  |  | $\begin{gathered} 0.024 \pm 0.002 \\ (0.61 \pm 0.05) \end{gathered}$ | $\begin{gathered} 0.012 \pm 0.002 \\ (0.30 \pm 0.05) \end{gathered}$ | $\begin{gathered} 0.009 \pm 0.002 \\ (0.23 \pm 0.05) \end{gathered}$ | $\begin{gathered} 0.006 \pm 0.003 \\ (0.15 \pm 0.08) \end{gathered}$ | $\begin{gathered} 0.006+0.002-0.004 \\ (0.15+0.05-0.10) \end{gathered}$ |

## DERATING CURVE



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