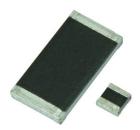


Vishay Dale

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



#### **LINKS TO ADDITIONAL RESOURCES**



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

### **FEATURES**

HALOGEN FREE

- Fully conforms to the requirements of 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 °C to +150 °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 <a href="https://www.vishav.com/doc?99912">www.vishav.com/doc?99912</a>

| STANDARD E                   | STANDARD ELECTRICAL SPECIFICATIONS |                       |       |              |  |                                     |  |                  |  |  |  |  |  |  |
|------------------------------|------------------------------------|-----------------------|-------|--------------|--|-------------------------------------|--|------------------|--|--|--|--|--|--|
| VISHAY DALE<br>MODEL         | MIL-PRF-55342<br>STYLE             | MIL<br>SPEC.<br>SHEET | TERM. | CASE<br>SIZE | POWER<br>RATING<br>P <sub>70 °C</sub><br>W | MAX.<br>WORKING<br>VOLTAGE (1)<br>V | $\begin{array}{c} \textbf{RESISTANCE} \\ \textbf{RANGE} \\ \Omega \end{array}$ | TOLERANCE<br>± % | TEMPERATURE<br>COEFFICIENT (2)<br>± ppm/°C |  |  |  |  |  |
| DOW/D14 0-00                 |                                    |                       |       |              |  |                                     | 1 to 9.1   | 2, 5, 10         | 200, 300                                   |  |  |  |  |  |
| RCWPM-0502,<br>RCWPM-0502-98 | RM0502                             | 01                    | В     | 0502         | 0.05                                       | 40                                  | 10 to 22M  | 1, 2, 5, 10      | 100, 200, 300                              |  |  |  |  |  |
| 110111 111 0002 00           |                                    |                       |       |              |  |                                     | 10 to 10M  | 0.5              | 100, 200, 300                              |  |  |  |  |  |
| DOWDM 550                    |                                    |                       |       |              |  |                                     | 1 to 9.1   | 2, 5, 10         | 200, 300                                   |  |  |  |  |  |
| RCWPM-550,<br>RCWPM-550-98   | RM0505                             | 02                    | В     | 0505         | 0.125                                      | 40                                  | 10 to 22M  | 1, 2, 5, 10      | 100, 200, 300                              |  |  |  |  |  |
| 110771 101 000 00            |                                    |                       |       |              |  |                                     | 10 to 10M  | 0.5              | 100, 200, 300                              |  |  |  |  |  |
| D011/D14 5100                |                                    |                       |       | 1005         | 0.20                                       | 75                                  | 1 to 5.1   | 2, 5, 10         | 200, 300                                   |  |  |  |  |  |
| RCWPM-5100,<br>RCWPM-5100-98 | RM1005                             | 03                    | В     |              |  |                                     | 5.6 to 22M   | 1, 2, 5, 10      | 100, 200, 300                              |  |  |  |  |  |
| 110771 101 0100 00           |                                    |                       |       |              |  |                                     | 5.62 to 10M  | 0.5              | 100, 200, 300                              |  |  |  |  |  |
| D011/D14 5150                | RM1505                             | 04                    | В     | 1505         | 0.15                                       | 125                                 | 1 to 5.1   | 2, 5, 10         | 200, 300                                   |  |  |  |  |  |
| RCWPM-5150,<br>RCWPM-5150-98 |                                    |                       |       |              |  |                                     | 5.6 to 22M   | 1, 2, 5, 10      | 100, 200, 300                              |  |  |  |  |  |
| 110111 111 0100 00           |                                    |                       |       |              |  |                                     | 5.62 to 10M  | 0.5              | 100, 200, 300                              |  |  |  |  |  |
| DOW/D14                      |                                    |                       |       |              |  |                                     | 1 to 5.1   | 2, 5, 10         | 200, 300                                   |  |  |  |  |  |
| RCWPM-7225,<br>RCWPM-7225-98 | RM2208                             | 05                    | В     | 2208         | 0.225                                      | 175                                 | 5.6 to 22M   | 1, 2, 5, 10      | 100, 200, 300                              |  |  |  |  |  |
| 110771 101 7220 00           |                                    |                       |       |              |  |                                     | 5.62 to 10M  | 0.5              | 100, 200, 300                              |  |  |  |  |  |
| DOW/D14                      |                                    |                       |       |              |  |                                     | 1 to 5.1   | 2, 5, 10         | 200, 300                                   |  |  |  |  |  |
| RCWPM-575,<br>RCWPM-575-98   | RM0705                             | 06                    | В     | 0705<br>(3)  | 0.15                                       | 50                                  | 5.6 to 22M   | 1, 2, 5, 10      | 100, 200, 300                              |  |  |  |  |  |
| 110771 101 070 00            |                                    |                       |       | (0)          |  |                                     | 5.62 to 10M  | 0.5              | 100, 200, 300                              |  |  |  |  |  |
| DOW/D14 4000                 |                                    |                       |       |              |  |                                     | 1 to 5.1   | 2, 5, 10         | 200, 300                                   |  |  |  |  |  |
| RCWPM-1206,<br>RCWPM-1206-98 | RM1206                             | 07                    | В     | 1206         | 0.25                                       | 100                                 | 5.6 to 22M   | 1, 2, 5, 10      | 100, 200, 300                              |  |  |  |  |  |
|                              |                                    |                       |       |              |  |                                     | 5.62 to 10M  | 0.5              | 100, 200, 300                              |  |  |  |  |  |



Vishay Dale

| STANDARD ELECTRICAL SPECIFICATIONS |                        |                       |       |              |  |                                     |  |                  |  |  |  |  |  |
|------------------------------------|------------------------|-----------------------|-------|--------------|--|-------------------------------------|--|------------------|--|--|--|--|--|
| VISHAY DALE<br>MODEL               | MIL-PRF-55342<br>STYLE | MIL<br>SPEC.<br>SHEET | TERM. | CASE<br>SIZE | POWER<br>RATING<br>P <sub>70 °C</sub><br>W | MAX.<br>WORKING<br>VOLTAGE (1)<br>V | $\begin{array}{c} \textbf{RESISTANCE} \\ \textbf{RANGE} \\ \Omega \end{array}$ | TOLERANCE<br>± % | TEMPERATURE<br>COEFFICIENT (2)<br>± ppm/°C |  |  |  |  |
| DOWDM 0040                         |                        |                       |       |              |  |                                     | 1 to 5.1   | 2, 5, 10         | 200, 300                                   |  |  |  |  |
| RCWPM-2010,<br>RCWPM-2010-98       | RM2010                 | 08                    | В     | 2010         | 0.80                                       | 150                                 | 5.6 to 22M   | 1, 2, 5, 10      | 100, 200, 300                              |  |  |  |  |
|                                    |                        |                       |       |              |  |                                     | 5.62 to 10M  | 0.5              | 100, 200, 300                              |  |  |  |  |
| DOWDM 0540                         |                        |                       |       | 2512         | 1.0  |                                     | 1 to 5.1   | 2, 5, 10         | 200, 300                                   |  |  |  |  |
| RCWPM-2512,<br>RCWPM-2512-98       | RM2512                 | 09                    | В     |              |  | 200                                 | 5.6 to 22M   | 1, 2, 5, 10      | 100, 200, 300                              |  |  |  |  |
| 110111111201200                    |                        |                       |       |              |  |                                     | 5.62 to 10M  | 0.5              | 100, 200, 300                              |  |  |  |  |
|                                    | RM1010                 |                       |       |              | 0.50                                       |                                     | 1 to 5.1   | 2, 5, 10         | 200, 300                                   |  |  |  |  |
| RCWPM-1100,<br>RCWPM-1100-98       |                        | 10                    | В     | 1010         |  | 75                                  | 5.6 to 22M   | 1, 2, 5, 10      | 100, 200, 300                              |  |  |  |  |
| 1100010111100000                   |                        |                       |       |              |  |                                     | 5.62 to 10M  | 0.5              | 100, 200, 300                              |  |  |  |  |
| DOWN 0 400                         |                        |                       |       |              |  |                                     | 1 to 9.1   | 2, 5, 10         | 200, 300                                   |  |  |  |  |
| RCWPM-0402,<br>RCWPM-0402-98       | RM0402                 | 11                    | В     | 0402         | 0.05                                       | 30                                  | 10 to 22M  | 1, 2, 5, 10      | 100, 200, 300                              |  |  |  |  |
| 110771 101 0402 00                 |                        |                       |       |              |  |                                     | 10 to 10M  | 0.5              | 100, 200, 300                              |  |  |  |  |
|                                    |                        |                       |       |              |  |                                     | 1 to 5.1   | 2, 5, 10         | 200, 300                                   |  |  |  |  |
| RCWPM-0603,<br>RCWPM-0603-98       | RM0603                 | 12                    | В     | 0603         | 0.10                                       | 50                                  | 5.6 to 22M   | 1, 2, 5, 10      | 100, 200, 300                              |  |  |  |  |
| 110771 171 0000 30                 |                        |                       |       |              |  |                                     | 5.62 to 10M  | 0.5              | 100, 200, 300                              |  |  |  |  |
|                                    |                        |                       |       |              |  |                                     | 1 to 9.1   | 2, 5, 10         | 200, 300                                   |  |  |  |  |
| RCWPM-0302,<br>RCWPM-0302-98       | RM0302                 | 13                    | В     | 0302         | 0.04                                       | 15                                  | 10 to 22M  | 1, 2, 5, 10      | 100, 200, 300                              |  |  |  |  |
| 110 111 111 0002 30                |                        |                       |       |              |  |                                     | 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  P <sub>70 °C</sub> W | RES. RANGE $\Omega$    | RES. TOL.<br>± % | TEMP. COEF.<br>± ppm/°C | MAX. WORKING<br>VOLTAGE <sup>(1)</sup><br>V |  |
|------------------------|----------------------|-------|------------------------------------|------------------------|------------------|-------------------------|---|--|
| 07009                  | RCWP-0201            | В     | 0.05                               | 10 to 46.4<br>47 to 1M | 1, 5             | 200<br>100              | 30  |  |

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

<sup>(1)</sup> Continuous working voltage shall be  $\sqrt{P \times R}$  or maximum working voltage, whichever is less

<sup>(2)</sup> Characteristics:  $K = \pm 100 \text{ ppm/°C}$ ;  $L = \pm 200 \text{ ppm/°C}$ ;  $M = \pm 300 \text{ ppm/°C}$ 

<sup>(3)</sup> MIL case size 0705 and EIA case size 0805 are dimensionally the same



Vishay Dale

| GLOBA  | GLOBAL PART NUMBER INFORMATION |  |       |      |                             |                                     |        |                |                  |          |                   |                                      |     |                             |         |                                   |  |  |  |   |  |   |  |  |   |                                     |
|--|--------------------------------|--|-------|------|-----------------------------|-------------------------------------|--------|----------------|------------------|----------|-------------------|--------------------------------------|-----|-----------------------------|---------|-----------------------------------|--|--|--|---|--|---|--|--|---|-------------------------------------|
| New Global Part Numbering: M55342M02B10E0RWB (preferred part number format)                        |                                |  |       |      |                             |                                     |        |                |                  |          |                   |                                      |     |                             |         |                                   |  |  |  |   |  |   |  |  |   |                                     |
| М  | 5                              | 5  | 3     |      | 4                           | 2                                   |        | М              | 0                |          | 2                 | В                                    |     | 1                           |         | )                                 | E  |  | 0  | R   |  | W   | В  |  |   |                                     |
| MIL<br>STYLE   |                                |  |       |      |                             |                                     |        |                | NATION YLE       | NC       |                   | UE AN                                |     |                             |         | ILUF<br>Rate                      |  |  | PA   | CKA   | SIN  | G <sup>(1)</sup>  |  | SPECIAL                                    |   |                                     |
| applies to<br>Style 07<br>(RM1206)<br>only.<br><b>M55342</b><br>applies to<br>all other<br>styles. | I                              | <b>(</b> = 100<br><b>−</b> = 200<br><b>1</b> = 300 | ) ppm |      | Elec<br>Elec<br>Elec<br>tal | tandar<br>trical<br>ication<br>ole) | s ni v | ickel<br>wrapa | e-tinn<br>barrie | er,<br>d | Tolers<br>Mu<br>t | (see<br>ance a<br>titiplier<br>able) | S   | P<br>R<br>U =<br>S =<br>V = | C = 1.0 | ) %/<br>%/<br>1 %/<br>%/1<br>1 %/ | 1000<br>1000<br>/1000<br>1000 I<br>/1000<br>1000 | h<br>h <sup>(2)</sup><br>O h<br>h <sup>(2)</sup> | TN T/F | e lot c 3 = tin / (1000c = tin / 000 p b W/E B = tir W/E B = tir W/E L = tir Wwaffle E lot c 2 = tin / piece join 3 (3000 E tin / 3 (3000 E tin / | (full)<br>/ lead<br>lead<br>lead<br>lead<br>lead<br>lead<br>lead<br>sol / lead<br>tradate<br>/ lead<br>lead<br>lead<br>lead<br>lead<br>lead<br>lead<br>lead<br>lead<br>lead<br>lead<br>lead<br>lead<br>lead<br>lead<br>lead<br>lead<br>lead<br>lead<br>lead<br>lead<br>lead<br>lead<br>lead<br>lead<br>lead<br>lead<br>lead<br>lead<br>lead<br>lead<br>lead<br>lead<br>lead<br>lead<br>lead<br>lead<br>lead<br>lead<br>lead<br>lead<br>lead<br>lead<br>lead<br>lead<br>lead<br>lead<br>lead<br>lead<br>lead<br>lead<br>lead<br>lead<br>lead<br>lead<br>lead<br>lead<br>lead<br>lead<br>lead<br>lead<br>lead<br>lead<br>lead<br>lead<br>lead<br>lead<br>lead<br>lead<br>lead<br>lead<br>lead<br>lead<br>lead<br>lead<br>lead<br>lead<br>lead<br>lead<br>lead<br>lead<br>lead<br>lead<br>lead<br>lead<br>lead<br>lead<br>lead<br>lead<br>lead<br>lead<br>lead<br>lead<br>lead<br>lead<br>lead<br>lead<br>lead<br>lead<br>lead<br>lead<br>lead<br>lead<br>lead<br>lead<br>lead<br>lead<br>lead<br>lead<br>lead<br>lead<br>lead<br>lead<br>lead<br>lead<br>lead<br>lead<br>lead<br>lead<br>lead<br>lead<br>lead<br>lead<br>lead<br>lead<br>lead<br>lead<br>lead<br>lead<br>lead<br>lead<br>lead<br>lead<br>lead<br>lead<br>lead<br>lead<br>lead<br>lead<br>lead<br>lead<br>lead<br>lead<br>lead<br>lead<br>lead<br>lead<br>lead<br>lead<br>lead<br>lead<br>lead<br>lead<br>lead<br>lead<br>lead<br>lead<br>lead<br>lead<br>lead<br>lead<br>lead<br>lead<br>lead<br>lead<br>lead<br>lead<br>lead<br>lead<br>lead<br>lead<br>lead<br>lead<br>lead<br>lead<br>lead<br>lead<br>lead<br>lead<br>lead<br>lead<br>lead<br>lead<br>lead<br>lead<br>lead<br>lead<br>lead<br>lead<br>lead<br>lead<br>lead<br>lead<br>lead<br>lead<br>lead<br>lead<br>lead<br>lead<br>lead<br>lead<br>lead<br>lead<br>lead<br>lead<br>lead<br>lead<br>lead<br>lead<br>lead<br>lead<br>lead<br>lead<br>lead<br>lead<br>lead<br>lead<br>lead<br>lead<br>lead<br>lead<br>lead<br>lead<br>lead<br>lead<br>lead<br>lead<br>lead<br>lead<br>lead<br>lead<br>lead<br>lead<br>lead<br>lead<br>lead<br>lead<br>lead<br>lead<br>lead<br>lead<br>lead<br>lead<br>lead<br>lead<br>lead<br>lead<br>lead<br>lead<br>lead<br>lead<br>lead<br>lead<br>lead<br>lead<br>lead<br>lead<br>lead<br>lead<br>lead<br>lead<br>lead<br>lead<br>lead<br>lead<br>lead<br>lead<br>lead<br>lead<br>lead<br>lead<br>lead<br>lead<br>lead<br>lead<br>lead<br>lead<br>lead<br>lead<br>lead<br>lead<br>lead<br>lead<br>lead<br>lead<br>lead<br>lead<br>lead<br>lead<br>lead<br>lead<br>lead<br>lead<br>lead<br>lead<br>lead<br>lead<br>lead<br>lead<br>lead<br>lead<br>lead<br>lead<br>lead<br>lead<br>lead<br>lead<br>lead<br>lead<br>lead<br>lead<br>lead<br>lead<br>lead<br>lead<br>lead<br>lead<br>lead<br>lead<br>lead<br>lead<br>lead<br>lead<br>lead<br>lead<br>lead<br>lead<br>lead<br>lea | ead,<br>ESD<br>d, T/R<br>e code<br>eaces)<br>d, T/R<br>ead,<br>ry,<br>ead,<br>ry,<br>ead,<br>ry,<br>ead,<br>ry,<br>ead,<br>ry,<br>ead,<br>ry,<br>ead,<br>ry,<br>ead,<br>ry,<br>ead,<br>ry,<br>ead,<br>ry,<br>ead,<br>ry,<br>ry,<br>reces) | (da<br>(up<br>I<br>to<br>sw/o<br>ma<br>spa<br>oipt<br>pa | ash to | standa<br>numbe<br>1 digits<br>0.5 %<br>ance (3)<br>5 =<br>e le level<br>on 1 pag<br>(-97)<br>F =<br>e vel (-92)<br>ion 1<br>narking<br>0) (4)<br>3 =<br>s 2 and<br>narking<br>0) (4) | er)<br>s)<br>)<br>art<br>(4)<br>98) |
| Historica  |                                | Numl   |       |      | 5342N                       | И02B1                               |        | •              | ill co           | ntin     |                   |                                      | сер | ted                         |         |                                   |  |  |  |   |  |   |  |  |   |                                     |
| M5534  | 2                              |  | M     |      |                             |                                     | 02     | 2              |                  | L        |                   | B                                    |     |                             | 1       | IOE(                              | 0  | <u></u>  |  | R   |  |   | <u> </u>   | W  | В   | _                                   |
| MIL<br>STYLE   |                                | СНА  | RACTI | ERIS | TICS                        | SF                                  | PEC. S | SHE            | ΕT               | T        | ERMI<br>ST        | NATIO<br>YLE                         | NC  |                             | VALI    | _                                 |  |  | F  | AILU<br>RATI  |  |   |  | CK/<br>CO                                  | AGING<br>DE   | í                                   |

### Notes

- For additional information on packaging, refer to the Surface Mount Resistor Packaging document (www.vishay.com/doc?31543)
- (4) 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
- (5) Failure rates U and V require group A and B inspection ran on each production lot
- (6) 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 %
- (7) MIL spec option 1, 2, and 3 part marking is not offered for the slash sheet 01, 02, 11, and 13 sizes

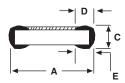
| RESISTANCE   | RESISTANCE TOLERANCE AND MULTIPLIERS |   |   |   |   |            |  |  |  |  |  |  |  |  |
|--|--------------------------------------|---|---|---|---|------------|--|--|--|--|--|--|--|--|
|  |                                      | MULTIPLIER  | VALUE   |   |   |            |  |  |  |  |  |  |  |  |
| ± 0.5 %  | ± 1 %                                | ± 2 %   | MOLTIPLIER  | <b>RANGE</b> ( $\Omega$ )                 |   |            |  |  |  |  |  |  |  |  |
| W  | D                                    | G   | J   | М   | 1   | 1 to 9xx   |  |  |  |  |  |  |  |  |
| Υ  | E                                    | Н   | K   | N   | 1000  | 1K to 9xxK |  |  |  |  |  |  |  |  |
| Z  | F                                    | Т   | L   | Р   | 1 000 000   | 1M to 22M  |  |  |  |  |  |  |  |  |
| Examples: $38W8 = 38.8 \Omega \pm 10Y0 = 10 \text{ k}\Omega \pm 0$ $988W = 988 \Omega \pm 0$ $2Z13 = 2.13 \text{ M}\Omega \pm 0$ | .5 %<br>).5 %                        | 11D3 = 11.<br>10E0 = 10 I<br>332D = 332<br>2F21 = 2.2<br>51G0 = 51<br>10H0 = 10<br>33H0 = 33<br>22T0 = 22 I | $K\Omega \pm 1 \%$<br>$C\Omega \pm 1 \%$<br>$1 M\Omega \pm 1 \%$<br>$\Omega \pm 2 \%$<br>$k\Omega \pm 2 \%$<br>$k\Omega \pm 2 \%$ | 10K<br>560k<br>8L20<br>10M<br>10N<br>2P70 | $0 = 15 \Omega \pm 5 \%$<br>$0 = 10 kΩ \pm 5 \%$<br>$K = 560 kΩ \pm 5 \%$<br>$K = 8.2 MΩ \pm 5 \%$<br>K = 10 Ω ± 10 %<br>K = 10 Ω ± 10 % |            |  |  |  |  |  |  |  |  |



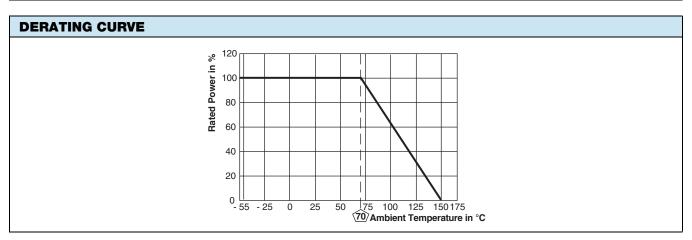
Vishay Dale

## **DIMENSIONS** in inches (millimeters)





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



CAGE CODE: 91637 and 2799A (formerly SH903)



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