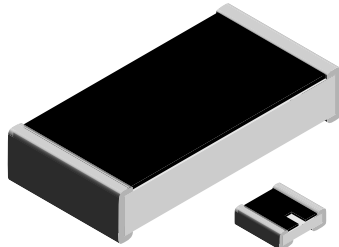




Vishay Dale

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



FEATURES

- Allows wide design flexibility for use with hybrid circuitry
- Meets requirements of MIL-PRF-55342
- Established reliability - Verified failure rate
- Operating temperature range is - 55°C to + 150°C
- 100% screen tested per Group A, Subgroup 1-4, MIL-PRF-55342
- Variety of termination material and One-surface or wrap-around termination styles

| STANDARD ELECTRICAL SPECIFICATIONS | | | | | | | | |
|------------------------------------|---------------------|----------------|--------------|---------------------|---|--|---------------------------|--------------------------------|
| VISHAY DALE MODEL | MIL-PRF-55342 STYLE | MIL. SHEET NO. | TERMINATIONS | CHAR. | RESISTANCE RANGE (Ohms) | TOLERANCE % | MAXIMUM OPERATING VOLTAGE | POWER RATING P _{70°C} |
| RCWPM, RCWM, RCM, -550 | RM0505 | 02 | B, C, T, U, | M K, M K, M | 5.6 - 470k 10 - 470k 10 - 464k | ± 10 ± 2 - ± 10 ± 1 | 40 | 55 mW |
| RCWPM, RCWM, RCM, -5100 | RM1005 | 03 | B, C, T, U, | M K, M | 5.6 - 1M 10 - 1M | ± 10 ± 1 - ± 10 | 40 | 100 mW |
| RCWPM, RCWM, RCM, -5150 | RM1505 | 04 | B, C, T, U, | M M K, M | 5.6 - 4.7M 10 - 4.7M 10 - 1M | ± 10 ± 2 - ± 5 ± 1 - ± 10 | 40 | 150 mW |
| RCWPM, RCWM, RCM, -7225 | RM2208 | 05 | B, C, T | M M K, M | 5.6 - 15M 10 - 15M 10 - 2M | ± 10 ± 2 - ± 5 ± 1 - ± 10 | 40 | 225 mW |
| RCWPM, RCWM, RCM, -575 | RM0705 | 06 | B, C, T, U, | M K, M | 5.6 - 1M 10 - 1M | ± 10 ± 1 - ± 10 | 50 | 100 mW |
| RCWPM, RCWM, RCM, -1206 | RM1206 | 07 | B, C, T, U, | M M K | 5.6 - 1M 10 - 5.62M 10 - 1M | ± 10 ± 1 - ± 5 ± 1 - ± 10 | 100 | 250 mW |
| RCWPM, RCWM, RCM, -2010 | RM2010 | 08 | B, C, T, U, | M M M K, M | 5.6 - 15M 10 - 15M 10 - 7.5M 10 - 1M | ± 10 ± 2 - ± 5 ± 1 ± 1 - ± 10 | 150 | 800 mW |
| RCWPM, RCWM, RCM-2512 | RM2512 | 09 | B, C, T, U, | M M M K, M | 5.6 - 15M 10 - 15M 10 - 7.5M 10 - 1M | ± 10 ± 2 - ± 5 ± 1 ± 1 - ± 10 | 200 | 1000 mW |
| RCWPM, RCWM RCM-1100 | RM1010 | 10 | B, C, T, U, | M K, M | 5.49 - 5.62M 10 - 499k | ± 1 - ± 10 ± 1% - ± 10 | 75 | 500 mW |
| RCWPM-0603-60 | RM0603 | 12 | B | M M K | 5.6 - 1M 10 - 1M 10 - 1M | ± 10 ± 1, ± 2, ± 5 ± 1, ± 2, ± 5, ± 10 | 50 | 70 mW |

| ORDERING INFORMATION - MILITARY PART NUMBER | | | | | |
|---|------------------------------------|-------------------------|--|-------------------------------|---|
| M55342 MIL. SPEC. NO. INDICATING MIL-PRF-55342 | M CHARACTERISTIC | 02 MIL. SPEC. SHEET NO. | B TERMINATION MATERIAL | 10E0 RESISTANCE AND TOLERANCE | R PRODUCT LEVEL (LIFE FAILURE RATE) |
| D55342 applies to Style 07 (RM1206) only. M55342 applies to all other styles. | M = ± 300PPM/°C K = ± 100PPM/°C | | B = Pre-tinned Nickel Barrier, wraparound (RCWPM) ("B" code is stocked) C = Untinned Palladium Silver, wraparound (RCWM-XXXX-8) T = Untinned Platinum-Gold, one-surface (RCM) U = Untinned Platinum-Gold, wraparound (RCWM) | See Code Letters | C = Non-ERL M = 1.0%/1000 hours P = 0.1%/1000 hours R = 0.01%/1000 hours S = 0.001%/1000 hours T = Space level |



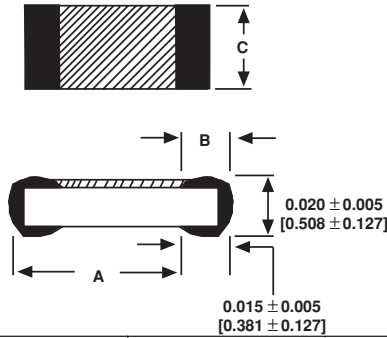
RCWPM, RCWM, RCM

Thick Film Chip Resistors, Military/Established Reliability

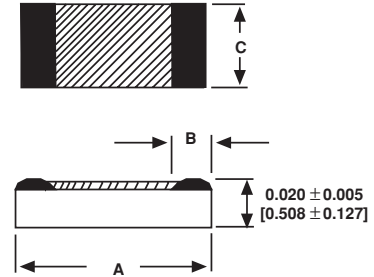
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DIMENSIONS in inches [millimeters]

RCWPM/RCWM
(Wraparound termination)



RCM
(One-surface termination)



| VISHAY DALE MODEL | MIL-PRF-55342 STYLE | MIL. SHEET NO. | A ± 0.005 [0.127] | B ± 0.005 [0.127] | C ± 0.005 [0.127] |
|-----------------------------------|---------------------|----------------|------------------------------|--------------------------------|------------------------------|
| RCWPM-550, RCWM-550 RCM-550 | RM0505 | 02 | 0.050 [1.27] 0.055 [1.40] | 0.010 [0.254] 0.010 [0.254] | 0.050 [1.27] 0.050 [1.27] |
| RCWPM-5100, RCWM-5100 RCM-5100 | RM1005 | 03 | 0.100 [2.54] 0.105 [2.67] | 0.015 [0.381] 0.015 [0.381] | 0.050 [1.27] 0.050 [1.27] |
| RCWPM-5150, RCWM-5150 RCM-5150 | RM1505 | 04 | 0.150 [3.81] 0.155 [3.94] | 0.015 [0.381] 0.015 [0.381] | 0.050 [1.27] 0.050 [1.27] |
| RCWPM-7225, RCWM-7225 RCM-7225 | RM2208 | 05 | 0.225 [5.72] 0.230 [5.84] | 0.015 [0.381] 0.015 [0.381] | 0.075 [1.91] 0.075 [1.91] |
| RCWPM-575, RCWM-575 RCM-575 | RM0705 | 06 | 0.075 [1.91] 0.080 [2.03] | 0.015 [0.381] 0.015 [0.381] | 0.050 [1.27] 0.050 [1.27] |
| RCWPM-1206, RCWM-1206 RCM-1206 | RM1206 | 07 | 0.120 [3.05] 0.125 [3.18] | 0.015 [0.381] 0.015 [0.381] | 0.060 [1.52] 0.060 [1.52] |
| RCWPM-2010, RCWM-2010 RCM-2010 | RM2010 | 08 | 0.200 [5.08] 0.205 [5.21] | 0.020 [0.508] 0.015 [0.381] | 0.100 [2.54] 0.100 [2.54] |
| RCWPM-2512, RCWM-2512 RCM-2512 | RM2512 | 09 | 0.250 [6.35] 0.255 [6.48] | 0.020 [0.508] 0.015 [0.381] | 0.125 [3.18] 0.125 [3.18] |
| RCWPM-1100, RCWM-1100 RCM-1100 | RM1010 | 10 | 0.100 [2.54] 0.105 [2.67] | 0.015 [0.381] 0.015 [0.381] | 0.100 [2.54] 0.100 [2.54] |
| RCWPM-0603-60 | RM0603 | 12 | 0.063 [1.60] | 0.012 [0.305] | 0.031 [0.793] |

| CODE LETTERS (Tolerance & Multipliers) | | | | | |
|--|--------------------|-----|------|------------|--------------------|
| TOLERANCE | | | | MULTIPLIER | VALUE RANGE (Ohms) |
| ±1% | ±2% | ±5% | ±10% | | |
| D | G | J | M | 1 | 1 - 9xx |
| E | H | K | N | 1,000 | 1k - 9xxk |
| F | T | L | P | 1,000,000 | 1M - 10M |
| Examples: | | | | | |
| 11D3 = 11.3Ω ± 1% | 15J0 = 15Ω ± 5% | | | | |
| 10E0 = 10kΩ ± 1% | 10K0 = 10kΩ ± 5% | | | | |
| 332D = 332Ω ± 1% | 560K = 560kΩ ± 5% | | | | |
| 2F21 = 2.21MΩ ± 1% | 8L20 = 8.2MΩ ± 5% | | | | |
| 51G0 = 51Ω ± 2% | 10M0 = 10Ω ± 10% | | | | |
| 10H0 = 10kΩ ± 2% | 10N0 = 10kΩ ± 10% | | | | |
| 33H0 = 33kΩ ± 2% | 2P70 = 2.7MΩ ± 10% | | | | |
| 22T0 = 22MΩ ± 2% | 8P20 = 8.2MΩ ± 10% | | | | |

