

**DLA Land and Maritime - VQ  
Supplemental Information Sheet for Electronic QPL-55182**

**Date: 4/15/2015**

**Specification Details:**

Specification: MIL-PRF-55182  
 Title: Resistors, Fixed, Film, Nonestablished Reliability, Established Reliability, and Space Level  
 Federal Supply Class (FSC): 5905  
 Conventional: No  
 Specification contains quality assurance program: No  
 MIL-STD-790 Established Reliability & High Reliability: Yes  
 MIL-STD-690 Failure Rate Sampling Plans & Procedures: Yes  
 Weibull Graded: No  
 Specification contains space level reliability requirements: No  
 Specification allows test optimization: Yes

**Contact Information:**

Office of Primary Involvement: Passive Devices Branch, DLA Land and Maritime - VQP  
 Primary Qualifying Activity Contact: 614-692-0597, e-mail: vqp.jz@dla.mil  
 Secondary Qualifying Activity Contact: 614-692-0609, e-mail: vqp.do@dla.mil

**Notes:**

THE ACTIVITY RESPONSIBLE FOR THIS QPL IS THE U.S. ARMY COMMUNICATIONS-ELECTRONICS COMMAND AND FORT MONMOUTH. The activity designated as agent for all contacts relative to this QPL is DLA Land and Maritime-VQ, Columbus, OH 43218-3990.

Per Amendment 2 of MIL-R-55182/1 and MIL-R-55182/7 a requirement was added for a one-digit code to be marked on the resistor to identify each manufacturer. The codes for the manufacturers are as follows:

Vishay Dale: D  
 IRC (Boone): R

Contact the manufacturer or refer to the manufacturers website for a list of Authorized Distributors.

**Part Configuration:**

RN\*551/C49R9FM

| Style and Termination Type | Characteristic | Resistance | Resistance Tolerance | Product Level Designator |
|----------------------------|----------------|------------|----------------------|--------------------------|
| RN*55 1/                   | C              | 49R9       | F                    | M                        |

**PART LISTINGS**

| GOVERNMENT DESIGNATION | MANUFACTURER'S DESIGNATION OR TYPE NUMBER | TEST OR QUALIFICATION REFERENCE | SPECIFICATION SHEET | SUPPLIER'S NAME (ADDRESS ON LAST PAGE) |
|------------------------|---|---------------------------------|---------------------|--|
|------------------------|---|---------------------------------|---------------------|--|

**Part 1**

|   |                   |                                |     |                            |
|---|-------------------|--------------------------------|-----|----------------------------|
| <b>RNC50</b><br>Chars. H, J; res. values 10 ohms thru 796 kilohms; tols. B, D, F; life failure rates C, M, P, R, S  | ERC-50, ERC-50-31 | 55182-1107-79;<br>55182-304-87 | /7  | Vishay Dale (Columbus, NE) |
| <b>RNC50</b><br>Chars. K; res. values 10 ohms thru 796 kilohms; tols. D, F; life failure rates C, M, P, R, S        | ERC-50, ERC-50-31 | 55182-1107-79;<br>55182-304-87 | /7  | Vishay Dale (Columbus, NE) |
| <b>RNC51</b><br>Chars. H, J; res. values 10 ohms thru 200 kilohms; tols. B, D, F; life failure rates C, M, P, R, S  | ERC-50-12         | 55182-84-72                    | /11 | Vishay Dale (Columbus, NE) |
| <b>RNC51</b><br>Chars. K; res. values 10 ohms thru 200 kilohms; tols. D, F; life failure rates C, M, P, R, S        | ERC-50-12         | 55182-84-72                    | /11 | Vishay Dale (Columbus, NE) |
| <b>RNC55</b><br>Chars. H, J; res. values 10 ohms thru 2 megohms; tols. B, D, F; life failure rates C, M, P, R, S    | ERC-55, ERC-55-65 | 55182-304-87;<br>55182-438-81  | /1  | Vishay Dale (Columbus, NE) |
| <b>RNC55</b><br>Chars. K; res. values 10 ohms thru 2 megohms; tols. D, F; life failure rates C, M, P, R, S          | ERC-55, ERC-55-65 | 55182-304-87;<br>55182-438-81  | /1  | Vishay Dale (Columbus, NE) |
| <b>RNC56</b><br>Chars. H, J; res. values 10 ohms thru 1.21 megohms; tols. B, D, F; life failure rates C, M, P, R, S | ERC-55-91         | 55182-590-82                   | /12 | Vishay Dale (Columbus, NE) |

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| <b>Part 1</b>   |   |  |                     |  |
| <b>RNC56</b><br>Chars. K; res. values 10 ohms thru 1.21 megohms; tols. D, F; life failure rates C, M, P, R, S           | ERC-55-91                                 | 55182-590-82   | /12                 | Vishay Dale (Columbus, NE)             |
| <b>RNC60</b><br>Chars. H, J, K; res. values 10 ohms thru 2 megohms; tols. B, D, F; life failure rates C, M, P, R, S     | ERC-55-200, ERC-55-201                    | 55182-542-88;<br>55182-94-88   | /3                  | Vishay Dale (Columbus, NE)             |
| <b>RNC60</b><br>Chars. H, J, K; res. values 2 megohms thru 3.01 megohms; tols. D, F; life failure rates C, M            | ERC-55-200, ERC-55-201                    | 55182-542-88;<br>55182-94-88   | /3                  | Vishay Dale (Columbus, NE)             |
| <b>RNC65</b><br>Chars. H, J; res. values 10 ohms thru 3.01 megohms; tols. B, D, F; life failure rates C, M, P, R        | ERC-65, ERC-65-65                         | 55182-185-77;<br>55182-304-65  | /5                  | Vishay Dale (Columbus, NE)             |
| <b>RNC65</b><br>Chars. K; res. values 10 ohms thru 3.01 megohms; tols. D, F; life failure rates C, M, P, R              | ERC-65, ERC-65-65                         | 55182-185-77;<br>55182-304-87  | /5                  | Vishay Dale (Columbus, NE)             |
| <b>RNC70</b><br>Chars. H, J; res. values 10 ohms thru 3.01 megohms; tols. B, D, F; life failure rates C, M, P, R        | ERC-70, ERC-70-4                          | 55182-304-87;<br>55182-506-86  | /6                  | Vishay Dale (Columbus, NE)             |
| <b>RNC70</b><br>Chars. K; res. values 10 ohms thru 3.01 megohms; tols. D, F; life failure rates C, M, P, R              | ERC-70, ERC-70-4                          | 55182-304-87;<br>55182-506-86  | /6                  | Vishay Dale (Columbus, NE)             |
| <b>RNC90</b><br>Chars. T, Y; res. values 4.99 ohms thru 16 ohms; tols. B, D, F; life failure rates M, P, R              | S555, S555L                               | 55182-001-99;<br>55182-066-96;<br>55182-152-97;<br>55182-317-02  | /9                  | Vishay Advanced Technologies, Inc.     |
| <b>RNC90</b><br>Chars. T, Y; res. values 30.1 ohms thru 121 kilohms; tols. A, B, D, F, T, V; life failure rates M, P, R | S555, S555L                               | 55182-002-99;<br>55182-066-96;<br>55182-152-97;<br>55182-317-02  | /9                  | Vishay Advanced Technologies, Inc.     |
| <b>RNC90</b><br>Chars. T, Y; res. values 16.2 ohms thru 30 ohms; tols. A, B, D, F; life failure rates M, P, R           | S555, S555L                               | 55182-001-99;<br>55182-119-99;<br>55182-145-94;<br>55182-317-02  | /9                  | Vishay Advanced Technologies, Inc.     |
| <b>RNC90</b><br>Chars. S, Z; res. values 30.1 ohms thru 121 kilohms; tols. A, B, D, F, T, V; life failure rates M, P, R | Z555, Z555L                               | 55182-052-01;<br>55182-2208-08;<br>55182-2209-08;<br>55182-316-02;<br>55182-670-03                                 | /9                  | Vishay Advanced Technologies, Inc.     |
| <b>RNC90</b><br>Chars. T, Y; res. values 4.99 ohms thru 121 kilohms; tols. A, B, D, F, T, V; life failure rates M, P, R | WQ, WT                                    | 55182-154-98;<br>55182-155-98;<br>55182-157-02;<br>55182-254-02;<br>55182-484-03;<br>55182-859-04;<br>55182-860-04 | /9                  | Wilbrecht LEDCO, Inc.                  |
| <b>RNC90</b><br>Chars. S, Z; res. values 30.1 ohms thru 121 kilohms; tols. A, B, D, F, T, V; life failure rates M, P, R | WZ  | 55182-1312-05  | /9                  | Wilbrecht LEDCO, Inc.                  |
| <b>RNN55</b><br>Chars. C, E; res. values 10 ohms thru 1.21 megohms; tols. B, D, F; life failure rates C, M, P, R, S     | HDN-55, HDN-55-65                         | 55182-052-96;<br>55182-118-95;<br>55182-121-96;<br>55182-134-95;<br>55182-158-96;<br>55182-222-94;<br>55182-237-93 | /1                  | Vishay Dale (Columbus, NE)             |

**PART LISTINGS**

| GOVERNMENT DESIGNATION  | MANUFACTURER'S DESIGNATION OR TYPE NUMBER | TEST OR QUALIFICATION REFERENCE  | SPECIFICATION SHEET | SUPPLIER'S NAME (ADDRESS ON LAST PAGE) |
|---|---|--|---------------------|--|
| <b>Part 1</b>   |   |  |                     |  |
| <b>RNN57</b><br>Chars. C, E; res. values 49.9 ohms thru 200 kilohms; tols. F; life failure rates C, M, P, R, S      | HDN-57, HDN-57-1                          | 55182-026-97;<br>55182-117-95;<br>55182-121-96   | /2                  | Vishay Dale (Columbus, NE)             |
| <b>RNN60</b><br>Chars. C, E; res. values 10 ohms thru 2.49 megohms; tols. B, D, F; life failure rates C, M, P, R, S | HDN-60, HDN-60-1                          | 55182-105-96;<br>55182-121-96;<br>55182-125-96;<br>55182-223-94  | /3                  | Vishay Dale (Columbus, NE)             |
| <b>RNN65</b><br>Chars. C, E; res. values 24.9 ohms thru 4.99 megohms; tols. B, D, F; life failure rates C, M, P     | HDN-65, HDN-65-65                         | 55182-050-99;<br>55182-071-97;<br>55182-124-96;<br>55182-162-99  | /5                  | Vishay Dale (Columbus, NE)             |
| <b>RNN70</b><br>Chars. C, E; res. values 24.9 ohms thru 4.99 megohms; tols. B, D, F; life failure rates C, M, P     | HDN-70, HDN-70-4                          | 55182-050-99;<br>55182-071-97;<br>55182-124-96   | /6                  | Vishay Dale (Columbus, NE)             |
| <b>RNN75</b><br>Chars. E, J; res. values 49.9 ohms thru 1.21 megohms; tols. B, D, F; life failure rates C, M        | HDN-75, HDN-75-1                          | 55182-033-98;<br>55182-050-99  | /10                 | Vishay Dale (Columbus, NE)             |
| <b>RNR50</b><br>Chars. H, J; res. values 10 ohms thru 796 kilohms; tols. B, D, F; life failure rates M, P, R, S     | ERC-50, ERC-50-31                         | 55182-1107-79;<br>55182-304-87   | /7                  | Vishay Dale (Columbus, NE)             |
| <b>RNR50</b><br>Chars. K; res. values 10 ohms thru 796 kilohms; tols. D, F; life failure rates M, P, R, S           | ERC-50, ERC-50-31                         | 55182-1107-79;<br>55182-304-87   | /7                  | Vishay Dale (Columbus, NE)             |
| <b>RNR51</b><br>Chars. H, J; res. values 10 ohms thru 200 kilohms; tols. B, D, F; life failure rates C, M, P, R, S  | ERC-50-12                                 | 55182-84-72  | /11                 | Vishay Dale (Columbus, NE)             |
| <b>RNR51</b><br>Chars. K; res. values 10 ohms thru 200 kilohms; tols. D, F; life failure rates C, M, P, R, S        | ERC-50-12                                 | 55182-84-72  | /11                 | Vishay Dale (Columbus, NE)             |
| <b>RNR55</b><br>Chars. H, J; res. values 10 ohms thru 2 megohms; tols. B, D, F; life failure rates M, P, R, S       | ERC-55, ERC-55-65                         | 55182-304-87;<br>55182-438-81  | /1                  | Vishay Dale (Columbus, NE)             |
| <b>RNR55</b><br>Chars. K; res. values 10 ohms thru 2 megohms; tols. D, F; life failure rates M, P, R, S             | ERC-55, ERC-55-65                         | 55182-304-87;<br>55182-438-81  | /1                  | Vishay Dale (Columbus, NE)             |
| <b>RNR55</b><br>Chars. C, E; res. values 10 ohms thru 1.21 megohms; tols. B, D, F; life failure rates C, M, P, R, S | HDN-55, HDN-55-65                         | 55182-052-96;<br>55182-118-95;<br>55182-121-96;<br>55182-134-95;<br>55182-158-96;<br>55182-222-94;<br>55182-237-93 | /1                  | Vishay Dale (Columbus, NE)             |
| <b>RNR56</b><br>Chars. H, J; res. values 10 ohms thru 1.21 megohms; tols. B, D, F; life failure rates M, P, R, S    | ERC-55-91                                 | 55182-590-82   | /12                 | Vishay Dale (Columbus, NE)             |
| <b>RNR56</b><br>Chars. H, J; res. values 10 ohms thru 1.21 megohms; tols. D, F; life failure rates M, P, R, S       | ERC-55-91                                 | 55182-590-82   | /12                 | Vishay Dale (Columbus, NE)             |
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**PART LISTINGS**

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| <b>Part 1</b>  |   |   |                             |   |
| <b>RNR60</b><br>Chars. C, E; res. values 10 ohms thru 2.49 megohms;<br>tols. B, D, F; life failure rates C, M, P, R, S | HDN-60, HDN-60-1                                | 55182-105-96;<br>55182-121-96;<br>55182-125-96;<br>55182-223-94 | /3                          | Vishay Dale (Columbus, NE)                |
| <b>RNR60</b><br>Chars. H, J, K; res. values 2 megohms thru 3.01<br>megohms; tols. D, F; life failure rates C, M        | ERC-55-200, ERC-55-<br>201                      | 55182-542-88;<br>55182-94-88                                    | /3                          | Vishay Dale (Columbus, NE)                |
| <b>RNR60</b><br>Chars. H, J, K; res. values 10 ohms thru 2 megohms;<br>tols. B, D, F; life failure rates C, M, P, R, S | ERC-55-200, ERC-55-<br>201                      | 55182-542-88;<br>55182-94-88                                    | /3                          | Vishay Dale (Columbus, NE)                |
| <b>RNR65</b><br>Chars. H, J; res. values 10 ohms thru 3.01 megohms;<br>tols. B, D, F; life failure rates M, P, R       | ERC-65, ERC-65-65                               | 55182-185-77;<br>55182-304-87                                   | /5                          | Vishay Dale (Columbus, NE)                |
| <b>RNR65</b><br>Chars. K; res. values 10 ohms thru 3.01 megohms;<br>tols. D, F; life failure rates M, P, R             | ERC-65, ERC-65-65                               | 55182-185-77;<br>55182-304-87                                   | /5                          | Vishay Dale (Columbus, NE)                |
| <b>RNR65</b><br>Chars. C, E; res. values 24.9 ohms thru 4.99<br>megohms; tols. B, D, F; life failure rates C, M, P     | HDN-65, HDN-65-65                               | 55182-050-99;<br>55182-071-97;<br>55182-124-96;<br>55182-162-99 | /5                          | Vishay Dale (Columbus, NE)                |
| <b>RNR70</b><br>Chars. K; res. values 10 ohms thru 3.01 megohms;<br>tols. D, F; life failure rates M, P, R             | ERC-70, ERC-70-4                                | 55182-304-87;<br>55182-506-86                                   | /6                          | Vishay Dale (Columbus, NE)                |
| <b>RNR70</b><br>Chars. H, J; res. values 10 ohms thru 3.01 megohms;<br>tols. B, D, F; life failure rates M, P, R       | ERC-70, ERC-70-4                                | 55182-304-87;<br>55182-506-86                                   | /6                          | Vishay Dale (Columbus, NE)                |
| <b>RNR70</b><br>Chars. C, E; res. values 24.9 ohms thru 4.99<br>megohms; tols. B, D, F; life failure rates C, M, P     | HDN-70, HDN-70-4                                | 55182-050-99;<br>55182-071-97;<br>55182-124-96                  | /6                          | Vishay Dale (Columbus, NE)                |
| <b>RNR75</b><br>Chars. E, J; res. values 49.9 ohms thru 1.21 megohms;<br>tols. B, D, F; life failure rates C, M        | HDN-75, HDN-75-1                                | 55182-033-98;<br>55182-050-99                                   | /10                         | Vishay Dale (Columbus, NE)                |

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**Manufacturer and Supplier Location Information**

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**Manufacturer: Vishay Dale Electronics, Inc. (CAGE Code: 91637)**

Location: P.O. Box 609, 1122 23rd Street, Columbus, NE 68602-0609, US

## Plants:

1. Plant: Same Address as Manufacturer

**Manufacturer: Vishay Precision Group, Inc. (CAGE Code: 658E7)**

Location: 3 Great Valley Parkway, Suite 150, Malvern, PA 19355-1417, US

## Plants:

1. Vishay Advanced Technologies, Ltd., CAGE: S8016, 2 Haofan Street, Holon 58814, Israel

**Manufacturer: Wilbrecht LEDCO, Inc. (CAGE Code: 0KUU5)**

Location: 1400 Energy Park Drive, Suite 18, St. Paul, MN 55108-5248, US