**Specification Details:** **Date: 5/17/2021**

Specification: MIL-PRF-12934
Title: Resistor, Variable, Wire-Wound, Precision
Federal Supply Class (FSC): 5905
Conventional: Yes
Specification contains quality assurance program: No
MIL-STD-790 Established Reliability & High Reliability: No
MIL-STD-690 Failure Rate Sampling Plans & Procedures: No
Weibull Graded: No
Specification contains space level reliability requirements: No
Specification allows test optimization: No

**Contact Information:**

Office of Primary Involvement: Passive Devices Branch, DLA Land and Maritime - VQP
Primary Qualifying Activity Contact: 614-692-3757, e-mail: vqp.dl@dla.mil
Secondary Qualifying Activity Contact: 614-692-0609, e-mail: vqp.do@dla.mil

**Notes:**

* Procurement of Category II resistors shall be confined to sources of the corresponding Category I resistor. Also, only manufacturers having their resistors annotated with an asterisk (*) have complied with the quality assurance program requirements and are eligible to supply similar Category II resistors within the limitations specified in MIL-R-12934.

Style: The style is identified by the two-letter symbol "RR" followed by a four-digit number. The letters "RR" identify precision, variable, wire-wound resistors. The first two digits in the number identifies physical size, the last two digits identifies a category I or category II resistor. The digits for a category I resistor I should be "00". The digits for a category II resistor will be "XX". The category III item is not identified by a single number, but is described in the user's drawing.

Function and shaft length: The type of function and shaft length are identified by a single letter.

Class and center tap: The class and center tap is identified by a single digit.

Resistance temperature characteristic: The resistance temperature characteristic of the completed resistor is identified by a single letter.

Rotational life characteristic: The rotational life characteristic is identified by a single digit.

Function conformity tolerance and resistance tolerance characteristic: The function conformity tolerance and resistance tolerance characteristic is identified by a single letter.

Resistance: The nominal total resistance value expressed in ohms is identified by a three digit number. The first two digits represent significant figures and the last digit specifies the number of zeros to follow. When fractional values of an ohm, or values of less that 10 ohms are required, the letter "R" is substituted for one of the significant digits to represent the decimal point. When the letter "R" is used, the succeeding digits of the group represent significant figures.

**Part Configuration:**

Category I Resistors: RR0900A2A7J103

| Style | Function and Shaft Length | Class and Center Tap | Resistance Temperature Characteristic | Rotational Life Characteristic | Function Conformity Tolerance and Resistance Tolerance Characteristic | Resistance |
|---|---|---|---|---|---|---|
| RR0900 | A | 2 | A | 7 | J | 103 |

Category II Resistors: RR09XXA2A7J103

**PART LISTINGS**

| GOVERNMENT DESIGNATION | MANUFACTURER'S DESIGNATION OR TYPE NUMBER | TEST OR QUALIFICATION REFERENCE | SPECIFI-CATION SHEET | SUPPLIER'S NAME (ADDRESS ON LAST PAGE) |
|---|---|---|---|---|
| **RR0900*** | | | | |
| Func. and shaft lengths A, B, C, D, E, F: classes 2, 3, 4, 5; res. temp. chars. A, B, C, D, E, F, G, H; rotational life chars. 7, 8, 9; function conformity tol. and res. tol. chars. G, H, I, J, K, L, S, T, U, V, W, X; nom. total res. values 100 ohms thru 10 kilohms | 701 | 12934-593-73 | /1 | Spectrol Electronics Corp. |

| GOVERNMENT DESIGNATION | MANUFACTURER'S DESIGNATION OR TYPE NUMBER | TEST OR QUALIFICATION REFERENCE | SPECIFI-CATION SHEET | SUPPLIER'S NAME (ADDRESS ON LAST PAGE) |
|---|---|---|---|---|
| **RR1000*** | | | | |
| Func. and shaft lengths A, B, C, D, E, F: classes 2, 3, 4, 5; res. temp. chars. A, B, C, D, E, F, G, H; rotational life chars. 7, 8, 9; function conformity tol. and res. tol. chars. G, H, I, J, K, L, S, T, U, V, W, X; nom. total res. values 100 ohms thru 50 kilohms | 501 | 12934-583-77A | /6 | Spectrol Electronics Corp. |
| **RR1100*** | | | | |
| Func. and shaft lengths A, B, C, D, E, F: classes 2, 3, 4, 5; res. temp. chars. A, B, C, D, E, F, G, H; rotational life chars. 7, 8, 9; function conformity tol. and res. tol. chars. G, H, I, J, K, L, S, T, U, V, W, X; nom. total res. values 100 ohms thru 20 kilohms | 121 | 12934-593-73 | /2 | Spectrol Electronics Corp. |
| **RR1300*** | | | | |
| Func. and shaft lengths A, B, C, D, E, F: classes 2, 3, 4, 5; res. temp. chars. A, B, C, D, E, F, G, H; rotational life chars. 7, 8, 9; function conformity tol. and res. tol. chars. G, H, I, J, K, L, S, T, U, V, W, X; nom. total res. values 100 ohms thru 40 kilohms | 171 | 12934-593-73 | /19 | Spectrol Electronics Corp. |
| **RR1400*** | | | | |
| Func. and shaft lengths A, B, C, D, E, F: classes 2, 3, 4, 5; res. temp. chars. A, B, C, D, E, F, G, H; rotational life chars. 7, 8, 9; function conformity tol. and res. tol. chars. G, H, I, J, K, L, S, T, U, V, W, X; nom. total res. values 200 ohms thru 200 kilohms | 871 | 12934-594-73 | /20 | Spectrol Electronics Corp. |
| **RR2000*** | | | | |
| Func. and shaft lengths A, B, C, D, E, F: classes 2, 3, 4, 5; res. temp. chars. A, B, C, D, E, F, G, H; rotational life chars. 7, 8, 9; function conformity tol. and res. tol. chars. G, H, I, J, K, L, S, T, U, V, W, X; nom. total res. values 100 ohms thru 60 kilohms | 301 | 12934-593-73 | /4 | Spectrol Electronics Corp. |
| **RR2100*** | | | | |
| Func. and shaft lengths A, B, C, D, E, F: classes 2, 3, 4, 5; res. temp. chars. A, B, C, D, E, F, G, H; rotational life chars. 7, 8, 9; function conformity tol. and res. tol. chars. G, H, I, J, K, L, S, T, U, V, W, X; nom. total res. values 200 ohms thru 250 kilohms | 801 | 12934-594-73 | /9 | Spectrol Electronics Corp. |
| **RR3000*** | | | | |
| Func. and shaft lengths A, B, C, D, E, F: classes 2, 3, 4, 5; res. temp. chars. A, B, C, D, E, F, G, H; rotational life chars. 7, 8, 9; function conformity tol. and res. tol. chars. G, H, I, J, K, L, S, T, U, V, W, X; nom. total res. values 200 ohms thru 100 kilohms | 401 | 12934-593-73 | /5 | Spectrol Electronics Corp. |
| **RR3100*** | | | | |
| Func. and shaft lengths A, B, C, D, E, F: classes 2, 3, 4, 5; res. temp. chars. A, B, C, D, E, F, G, H; rotational life chars. 7, 8, 9; function conformity tol. and res. tol. chars. G, H, I, S, T, U; nom. total res. values 100 ohms thru 10 kilohms | 701 | 12934-593-73 | /10 | Spectrol Electronics Corp. |
| **RR3200*** | | | | |
| Func. and shaft lengths A, B, C, D, E, F: classes 2, 3, 4, 5; res. temp. chars. A, B, C, D, E, F, G, H; rotational life chars. 7, 8, 9; function conformity tol. and res. tol. chars. A, B, C, D, E, F, G, H, I, J, K, L, M, N, O, P, Q, R, S, T, U, V, W, X; nom. total res. values 100 ohms thru 20 kilohms | 121 | 12934-593-73 | /15 | Spectrol Electronics Corp. |

| GOVERNMENT DESIGNATION | MANUFACTURER'S DESIGNATION OR TYPE NUMBER | TEST OR QUALIFICATION REFERENCE | SPECIFI-CATION SHEET | SUPPLIER'S NAME (ADDRESS ON LAST PAGE) |
|---|---|---|---|---|
| **RR3300*** | | | | |
| Func. and shaft lengths A, B, C, D, E, F: classes 2, 3, 4, 5; res. temp. chars. A, B, C, D, E, F, G, H; rotational life chars. 7, 8, 9; function conformity tol. and res. tol. chars. A, B, C, D, E, F, G, H, I, J, K, L, M, N, O, P, Q, R, S, T, U, V, W, X; nom. total res. values 100 ohms thru 40 kilohms | 171 | 12934-593-73 | /16 | Spectrol Electronics Corp. |
| **RR3400*** | | | | |
| Func. and shaft lengths A, B, C, D, E, F: classes 2, 3, 4, 5; res. temp. chars. A, B, C, D, E, F, G, H; rotational life chars. 7, 8, 9; function conformity tol. and res. tol. chars. A, B, C, D, E, F, G, H, I, J, K, L, M, N, O, P, Q, R, S, T, U, V, W, X; nom. total res. values 100 ohms thru 60 kilohms | 301 | 12934-593-73 | /17 | Spectrol Electronics Corp. |
| **RR3500*** | | | | |
| Func. and shaft lengths A, B, C, D, E, F: classes 2, 3, 4, 5; res. temp. chars. A, B, C, D, E, F, G, H; rotational life chars. 7, 8, 9; function conformity tol. and res. tol. chars. A, B, C, D, E, F, G, H, I, J, K, L, M, N, O, P, Q, R, S, T, U, V, W, X; nom. total res. values 200 ohms thru 100 kilohms | 401 | 12934-593-73 | /18 | Spectrol Electronics Corp. |
| **RR3900*** | | | | |
| Func. and shaft lengths C, D, E, F: classes 2, 3, 4, 5; res. temp. chars. A, B, C, D, E, F, G, H; rotational life chars. 7, 8, 9; function conformity tol. and res. tol. chars. G, H, I, J, K, L, S, T, U, V, W, X; nom. total res. values 100 ohms thru 50 kilohms | 501 | 12934-6011-21 | /30 | Vishay Spectrol Electronics Corp. |
| **RR4000*** | | | | |
| Func. and shaft lengths C, D, E, F: classes 2, 3, 4, 5; res. temp. chars. A, B, C, D, E, F, G, H; rotational life chars. 7, 8, 9; function conformity tol. and res. tol. chars. G, H, I, J, K, L, S, T, U, V, W, X; nom. total res. values 100 ohms thru 50 kilohms | 501 | 12934-583-77A | /31 | Spectrol Electronics Corp. |
| **RR4100*** | | | | |
| Func. and shaft lengths C, D, E, F: classes 2, 3, 4, 5; res. temp. chars. A, B, C, D, E, F, G, H; rotational life chars. 7, 8, 9; function conformity tol. and res. tol. chars. G, H, I, J, K, L, S, T, U, V, W, X; nom. total res. values 200 ohms thru 250 kilohms | 801 | 12934-594-73 | /32 | Spectrol Electronics Corp. |

## Manufacturer and Supplier Location Information

**Manufacturer: Vishay Spectrol Electronics Corp. (CAGE Code: 02111)**

Location: 4051 Greystone Drive, Ontario, CA 91761-3100, US

Plants:

1. Plant: Same Address as Manufacturer