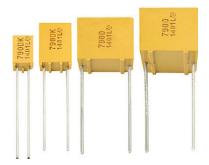


# Resin-Molded, Radial-Lead Solid Tantalum Capacitors



#### PERFORMANCE CHARACTERISTICS

Operating Temperature: -55 °C to +125 °C (above 85 °C, voltage derating is required) Capacitance Range: 0.1  $\mu$ F to 330  $\mu$ F Capacitance Tolerance:  $\pm$  10 %,  $\pm$  20 % Voltage Rating: 6.3  $V_{DC}$  to 50  $V_{DC}$ 

### **FEATURES**

- Terminations: tin / lead (SnPb), 100 % tin (Sn)
- Four case sizes precisely molded with a flame retardant epoxy resin



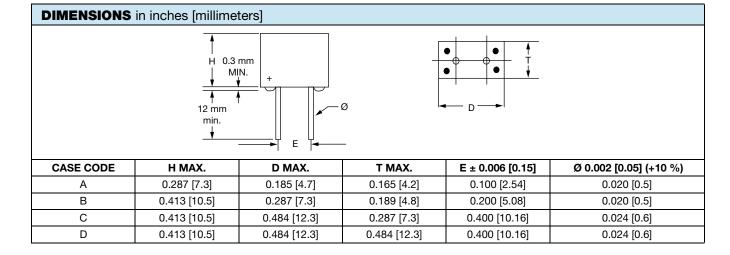
RoHS

- Stand off on all case sizes
- Available on tape for automatic insertion equipment (only A- and B-case, C- and D-case on request)
- Low leakage current
- Low impedance
- Extended value ranges available
- Material categorization: for definitions of compliance please see <a href="https://www.vishav.com/doc?99912"><u>www.vishav.com/doc?99912</u></a>

#### Note

\* This datasheet provides information about parts that are RoHS-compliant and / or parts that are non RoHS-compliant. For example, parts with lead (Pb) terminations are not RoHS-compliant. Please see the information / tables in this datasheet for details

| ORDER  | ING INFORM   | ATION                      |   |  |                                 |  |  |
|--|--|----------------------------|---|--|---------------------------------|--|--|
| 790D   | 157  | X0                         | 6R3   | С  | 2                               | В  | E3   |
| MODEL  | CAPACITANCE  | CAPACITANCE<br>TOLERANCE   | DC VOLTAGE<br>RATING  | CASE<br>CODE                                 | STYLE<br>NUMBER                 | PACKAGING  | RoHS<br>COMPLIANT  |
| 790D =<br>standard<br>and<br>extended<br>range | Expressed in picofarads. The first two digits are the significant figures. The third is the number of zeros following. | X0 = ± 20 %<br>X9 = ± 10 % | Expressed in volts. To complete the three-digit block, zeros precede the voltage rating. A decimal point is indicated by an "R" (6R3 = 6.3 V) | See<br>Ratings<br>and Case<br>Codes<br>table | Insulated<br>case<br>(standard) | See packing information B: bulk G: ammopack (H = 16.5 mm) H: ammopack (H = 18.5 mm) I: ammopack shouldered leads (A case) X: reel pack (H = 16.5 mm) Y: reel pack (H = 18.5 mm) Z: reel pack shouldered leads (A case) | E3 = 100 %<br>tin termination<br>(RoHS-<br>compliant)<br>Blank = SnPb<br>termination |



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| RAT                    | INGS A | IGS AND CASE CODES |      |      |  |      |       |        |                    |          |      |            |      |      |      |      |
|------------------------|--------|--------------------|------|------|--|------|-------|--------|--------------------|----------|------|------------|------|------|------|------|
|                        |        |                    |      |      |  |      | RATED | VOLTAG | E U <sub>R</sub> A | Γ +85 °C | ;    |            |      |      |      |      |
| _                      | 6.3    | 3 <b>V</b>         | 10   | V    | 16   | V    | 20    | V      | 25                 | V        | 35   | 5 <b>V</b> | 40   | V    | 50   | V    |
| C <sub>R</sub><br>(µF) |        |                    |      |      | CATEGORY VOLTAGE U <sub>C</sub> AT +125 °C |      |       |        |                    |          |      |            |      |      |      |      |
| . ,                    | 4.0    | V                  | 6.3  | 3 V  | 10   | V    | 13    | S V    | 16                 | V        | 23   | 3 V        | 25   | 5 V  | 32   | 2 V  |
|                        | STD.   | EXT.               | STD. | EXT. | STD.                                       | EXT. | STD.  | EXT.   | STD.               | EXT.     | STD. | EXT.       | STD. | EXT. | STD. | EXT. |
| 0.10                   |        |                    |      |      |  |      |       |        |                    |          |      |            | Α    |      | Α    |      |
| 0.15                   |        |                    |      |      |  |      |       |        |                    |          |      |            |      | Α    | Α    |      |
| 0.22                   |        |                    |      |      |  |      |       |        |                    |          |      |            |      | Α    | Α    |      |
| 0.33                   |        |                    |      |      |  |      |       |        |                    |          |      |            | Α    |      |      |      |
| 0.47                   |        |                    |      |      |  |      |       |        |                    |          |      |            | Α    |      |      |      |
| 0.68                   |        |                    |      |      |  |      |       |        |                    |          |      |            |      |      | Α    |      |
| 1.0                    |        |                    |      |      |  |      |       |        |                    |          |      |            | Α    |      | A/B  |      |
| 1.5                    |        |                    |      |      |  |      |       |        | Α                  |          |      |            | В    |      | В    |      |
| 2.2                    |        |                    |      |      | Α  |      | Α     |        |                    |          |      |            | В    |      | В    |      |
| 3.3                    |        |                    |      |      | Α  |      |       |        |                    |          |      | Α          | В    | Α    | В    |      |
| 4.7                    |        |                    | Α    |      |  |      |       |        |                    | Α        |      |            | В    |      | В    |      |
| 6.8                    | Α      |                    |      |      |  |      |       | Α      |                    |          |      |            | В    |      | С    |      |
| 10                     |        |                    |      |      |  | Α    |       |        | В                  |          |      | В          | С    |      | С    |      |
| 15                     |        |                    |      | Α    | В  |      | В     |        |                    | В        |      |            | С    |      | С    |      |
| 22                     |        | Α                  |      |      | В  |      |       | В      |                    | В        |      |            | С    |      |      |      |
| 33                     |        |                    | В    |      |  | В    |       |        | С                  |          |      | С          |      | D    |      |      |
| 47                     |        | В                  |      | В    | С  |      | С     |        |                    | D        |      |            |      | D    |      |      |
| 68                     |        |                    |      | В    | С  |      |       | С      |                    |          |      |            |      |      |      |      |
| 100                    |        |                    | С    |      | D  | С    | D     |        |                    |          |      |            |      |      |      |      |
| 150                    | С      |                    |      | С    |  | D    |       |        |                    |          |      |            |      |      |      |      |
| 220                    |        | С                  | D    |      |  |      |       |        |                    |          |      |            |      |      |      |      |
| 330                    | D      |                    |      |      |  |      |       |        |                    |          |      |            |      |      |      |      |

| STANDARD RA                        | STANDARD RATINGS / EXTENDED RATINGS   |                     |                               |                                     |   |  |  |
|------------------------------------|---|---------------------|-------------------------------|-------------------------------------|---|--|--|
| CAPACITANCE<br>C <sub>R</sub> (μF) | CASE CODE   | PART NUMBER         | MAX. DCL<br>AT +25 °C<br>(μΑ) | MAX. DF<br>120 Hz, AT +25 °C<br>(%) | MAX. IMPEDANCE<br>100 kHz, AT +25 °C<br>(Ω) |  |  |
|                                    | $U_R = 6.3 V_{DC} AT +85 °C$ , SURGE = 8 V; $U_C = 4 V_{DC} AT +125 °C$ , SURGE = 5 V |                     |                               |                                     |   |  |  |
| 6.8                                | Α   | 790D685X(1)6R3A2(2) | 1.0                           | 6                                   | 4.0   |  |  |
| 22                                 | Α   | 790D226X(1)6R3A2(2) | 1.3                           | 6                                   | 2.1   |  |  |
| 47                                 | В   | 790D476X(1)6R3B2(2) | 2.9                           | 6                                   | 1.3   |  |  |
| 68                                 | В   | 790D686X(1)6R3B2(2) | 4.2                           | 6                                   | 1.3   |  |  |
| 150                                | С   | 790D157X(1)6R3C2(2) | 9.4                           | 6                                   | 0.6   |  |  |
| 220                                | С   | 790D227X(1)6R3C2(2) | 13.8                          | 6                                   | 0.6   |  |  |
| 330                                | D   | 790D337X(1)6R3D2(2) | 20.7                          | 8                                   | 0.4   |  |  |

### Notes

- Part number definitions:
  - (1) Insert 0 for  $\pm$  20 % tolerance or 9 for  $\pm$  10 %
  - (2) See Ordering Information, packaging code
- Extended ratings in bold print

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| CAPACITANCE<br>C <sub>R</sub> (μF) | CASE CODE                             | PART NUMBER                            | MAX. DCL<br>AT +25 °C<br>(μA) | MAX. DF<br>120 Hz, AT +25 °C<br>(%) | MAX. IMPEDANCE<br>100 kHz, AT +25 °C<br>(Ω) |
|------------------------------------|---------------------------------------|--|-------------------------------|-------------------------------------|---|
|                                    | U <sub>R</sub> = 10 V <sub>DC</sub> A | T +85 °C, SURGE = 13 V; U <sub>C</sub> |                               |                                     |   |
| 4.7                                | Α                                     | 790D475X(1)010A2(2)                    | 1.0                           | 6                                   | 4.0   |
| 15                                 | Α                                     | 790D156X(1)010A2(2)                    | 1.5                           | 6                                   | 2.5   |
| 33                                 | В                                     | 790D336X(1)010B2(2)                    | 3.3                           | 6                                   | 1.3   |
| 47                                 | В                                     | 790D476X(1)010B2(2)                    | 4.7                           | 6                                   | 1.4   |
| 68                                 | В                                     | 790D686X(1)010B2(2)                    | 6.8                           | 6                                   | 1.3   |
| 100                                | С                                     | 790D107X(1)010C2(2)                    | 10.0                          | 6                                   | 0.6   |
| 150                                | С                                     | 790D157X(1)010C2(2)                    | 15.0                          | 6                                   | 0.6   |
| 220                                | D                                     | 790D227X(1)010D2(2)                    | 22.0                          | 8                                   | 0.4   |
|                                    | U <sub>R</sub> = 16 V <sub>DC</sub> A | T +85 °C, SURGE = 20 V; U <sub>C</sub> | = 10 V <sub>DC</sub> AT +125  | °C, SURGE = 13 V                    |   |
| 2.2                                | Α                                     | 790D225X(1)016A2(2)                    | 1.0                           | 6                                   | 5.5   |
| 3.3                                | Α                                     | 790D335X(1)016A2(2)                    | 1.0                           | 6                                   | 4.4   |
| 10                                 | Α                                     | 790D106X(1)016A2(2)                    | 1.6                           | 6                                   | 2.7   |
| 15                                 | В                                     | 790D156X(1)016B2(2)                    | 2.4                           | 6                                   | 1.6   |
| 22                                 | В                                     | 790D226X(1)016B2(2)                    | 3.5                           | 6                                   | 1.3   |
| 33                                 | В                                     | 790D336X(1)016B2(2)                    | 5.2                           | 6                                   | 1.6   |
| 47                                 | С                                     | 790D476X(1)016C2(2)                    | 7.5                           | 6                                   | 0.8   |
| 68                                 | С                                     | 790D686X(1)016C2(2)                    | 10.8                          | 6                                   | 0.6   |
| 100                                | С                                     | 790D107X(1)016C2(2)                    | 16.0                          | 6                                   | 0.7   |
| 100                                | D                                     | 790D107X(1)016D2(2)                    | 16.0                          | 6                                   | 0.5   |
| 150                                | D                                     | 790D157X(1)016D2(2)                    | 24.0                          | 8                                   | 0.4   |
|                                    | U <sub>R</sub> = 20 V <sub>DC</sub> A | T +85 °C, SURGE = 26 V; U <sub>C</sub> | = 13 V <sub>DC</sub> AT +125  | °C, SURGE = 16 V                    |   |
| 2.2                                | Α                                     | 790D225X(1)020A2(2)                    | 1.0                           | 6                                   | 5.5   |
| 6.8                                | Α                                     | 790D685X(1)020A2(2)                    | 1.3                           | 6                                   | 3.5   |
| 15                                 | В                                     | 790D156X(1)020B2(2)                    | 3.0                           | 6                                   | 1.5   |
| 22                                 | В                                     | 790D226X(1)020B2(2)                    | 4.4                           | 6                                   | 2.1   |
| 47                                 | С                                     | 790D476X(1)020C2(2)                    | 9.4                           | 6                                   | 0.7   |
| 68                                 | С                                     | 790D686X(1)020C2(2)                    | 13.6                          | 6                                   | 0.8   |
| 100                                | D                                     | 790D107X(1)020D2(2)                    | 20.0                          | 6                                   | 0.7   |
|                                    | U <sub>R</sub> = 25 V <sub>DC</sub> A | T +85 °C, SURGE = 32 V; U <sub>C</sub> |                               | °C, SURGE = 20 V                    |   |
| 1.5                                | Α                                     | 790D155X(1)025A2(2)                    | 1.0                           | 6                                   | 6.0   |
| 4.7                                | Α                                     | 790D475X(1)025A2(2)                    | 1.1                           | 6                                   | 4.5   |
| 10                                 | В                                     | 790D106X(1)025B2(2)                    | 2.5                           | 6                                   | 1.6   |
| 15                                 | В                                     | 790D156X(1)025B2(2)                    | 3.7                           | 6                                   | 2.4   |
| 22                                 | В                                     | 790D226X(1)025B2(2)                    | 5.5                           | 6                                   | 2.1   |
| 33                                 | C                                     | 790D336X(1)025C2(2)                    | 8.2                           | 6                                   | 0.8   |
| 47                                 | D                                     | 790D476X(1)025D2(2)                    | 11.8                          | 6                                   | 1.0   |
|                                    |                                       | T +85 °C, SURGE = 45 V; U <sub>C</sub> |                               |                                     |   |
| 3.3                                | Α                                     | 790D335X(1)035A2(2)                    | 1.2                           | 6                                   | 6.0   |
| 10                                 | В                                     | 790D106X(1)035B2(2)                    | 3.5                           | 6                                   | 2.6   |
| 33                                 | C                                     | 790D336X(1)035C2(2)                    | 11.6                          | 6                                   | 1.3   |

### Notes

- Part number definitions:
  - (1) Insert 0 for  $\pm$  20 % tolerance or 9 for  $\pm$  10 %
- (2) See Ordering Information, packaging code Extended ratings in bold print

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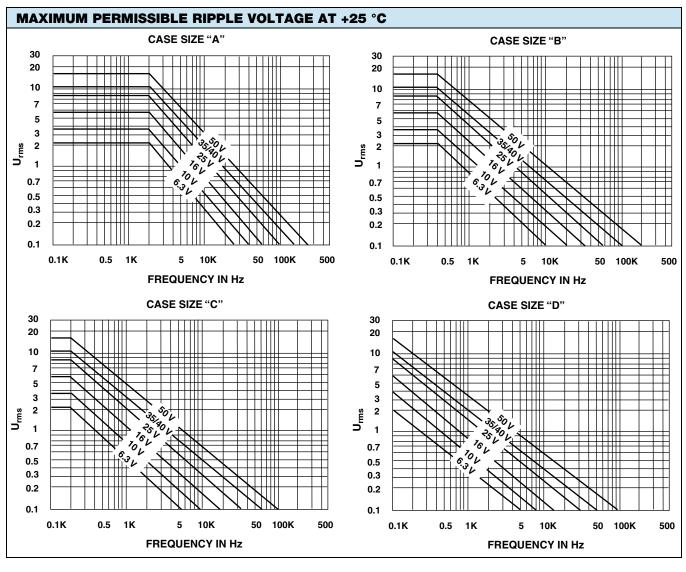
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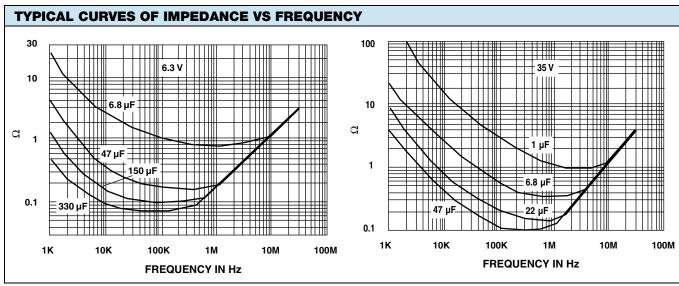
| STANDARD RA                        | TINGS / EXTEN                         | IDED RATINGS                           |                               |                                     |   |
|------------------------------------|---------------------------------------|--|-------------------------------|-------------------------------------|---|
| CAPACITANCE<br>C <sub>R</sub> (μF) | CASE CODE                             | PART NUMBER                            | MAX. DCL<br>AT +25 °C<br>(μΑ) | MAX. DF<br>120 Hz, AT +25 °C<br>(%) | MAX. IMPEDANCE<br>100 kHz, AT +25 °C<br>(Ω) |
|                                    | U <sub>R</sub> = 40 V <sub>DC</sub> A | T +85 °C, SURGE = 52 V; U <sub>C</sub> | = 25 V <sub>DC</sub> AT +125  | °C, SURGE = 32 V                    |   |
| 0.10                               | Α                                     | 790D104X(1)040A2(2)                    | 1.0                           | 6                                   | 30.0  |
| 0.15                               | Α                                     | 790D154X(1)040A2(2)                    | 1.0                           | 6                                   | 24.0  |
| 0.22                               | Α                                     | 790D224X(1)040A2(2)                    | 1.0                           | 6                                   | 18.0  |
| 0.33                               | Α                                     | 790D334X(1)040A2(2)                    | 1.0                           | 6                                   | 14.0  |
| 0.47                               | Α                                     | 790D474X(1)040A2(2)                    | 1.0                           | 6                                   | 11.0  |
| 1.0                                | Α                                     | 790D105X(1)040A2(2)                    | 1.0                           | 6                                   | 6.5   |
| 1.5                                | В                                     | 790D155X(1)040B2(2)                    | 1.0                           | 6                                   | 5.2   |
| 2.2                                | В                                     | 790D225X(1)040B2(2)                    | 1.0                           | 6                                   | 4.0   |
| 3.3                                | Α                                     | 790D335X(1)040A2(2)                    | 1.3                           | 6                                   | 2.8   |
| 3.3                                | В                                     | 790D335X(1)040B2(2)                    | 1.3                           | 6                                   | 2.8   |
| 4.7                                | В                                     | 790D475X(1)040B2(2)                    | 1.8                           | 6                                   | 2.0   |
| 6.8                                | В                                     | 790D685X(1)040B2(2)                    | 2.7                           | 6                                   | 1.6   |
| 10                                 | С                                     | 790D106X(1)040C2(2)                    | 4.0                           | 6                                   | 1.3   |
| 15                                 | С                                     | 790D156X(1)040C2(2)                    | 6.0                           | 6                                   | 1.0   |
| 22                                 | С                                     | 790D226X(1)040C2(2)                    | 8.8                           | 6                                   | 0.8   |
| 33                                 | D                                     | 790D336X(1)040D2(2)                    | 13.2                          | 6                                   | 0.6   |
| 47                                 | D                                     | 790D476X(1)040D2(2)                    | 18.8                          | 6                                   | 0.5   |
|                                    | U <sub>R</sub> = 50 V <sub>DC</sub> A | T +85 °C, SURGE = 65 V; U <sub>C</sub> | = 32 V <sub>DC</sub> AT +125  | °C, SURGE = 41 V                    |   |
| 0.10                               | А                                     | 790D104X(1)050A2(2)                    | 1.0                           | 6                                   | 30  |
| 0.15                               | Α                                     | 790D154X(1)050A2(2)                    | 1.0                           | 6                                   | 24  |
| 0.22                               | Α                                     | 790D224X(1)050A2(2)                    | 1.0                           | 6                                   | 18  |
| 0.68                               | Α                                     | 790D684X(1)050A2(2)                    | 1.0                           | 6                                   | 8.0   |
| 1.0                                | Α                                     | 790D105X(1)050A2(2)                    | 1.0                           | 6                                   | 6.5   |
| 1.0                                | В                                     | 790D105X(1)050B2(2)                    | 1.0                           | 6                                   | 6.5   |
| 1.5                                | В                                     | 790D155X(1)050B2(2)                    | 1.0                           | 6                                   | 5.2   |
| 2.2                                | В                                     | 790D225X(1)050B2(2)                    | 1.1                           | 6                                   | 4.0   |
| 3.3                                | В                                     | 790D335X(1)050B2(2)                    | 1.6                           | 6                                   | 2.8   |
| 4.7                                | В                                     | 790D475X(1)050B2(2)                    | 2.3                           | 6                                   | 2.0   |
| 6.8                                | С                                     | 790D685X(1)050C2(2)                    | 3.4                           | 6                                   | 1.6   |
| 10                                 | С                                     | 790D106X(1)050C2(2)                    | 5.0                           | 6                                   | 1.3   |
| 15                                 | С                                     | 790D156X(1)050C2(2)                    | 7.5                           | 6                                   | 1.0   |

### Notes

- Part number definitions:
  - (1) Insert 0 for  $\pm$  20 % tolerance or 9 for  $\pm$  10 % (2) See Ordering Information, packaging code
- Extended ratings in bold print







Revision: 05-Aug-2020 5 Document Number: 42072



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| PACKAGING QUANTITIES |               |      |      |  |  |
|----------------------|---------------|------|------|--|--|
| CASE CODE            | TAPE AND REEL | АММО | BULK |  |  |
| А                    | 1000          | 1000 | 500  |  |  |
| В                    | 1000          | 1000 | 250  |  |  |
| С                    | 300           | 300  | 100  |  |  |
| D                    | 200           | 200  | 50   |  |  |

### PERFORMANCE CHARACTERISTICS

- 1. Operating Temperature: -55 °C to +85 °C with rated voltage U<sub>R</sub> applied. +85 °C to 125 °C with linear voltage derating to category voltage  $U_{C}$  (see general information) applied.
- 2. Capacitance and Tolerance: capacitance measured at 100 Hz and +25 °C shall be within the specified tolerance limits of the nominal rating.
- 3. Reverse Voltage: 15 % of rated voltage at +25 °C 5 % of rated voltage at +85 °C
- 4. Surge Voltage: 130 % of U<sub>R</sub> at +85 °C 130 % of U<sub>C</sub> at +125 °C
- 5. Impedance at 100 kHz: measured at  $+20 \, ^{\circ}\text{C} \pm 5 \, ^{\circ}\text{C}$ , impedance shall not exceed the values listed in datasheet.
- 6. Stability at low and high temperatures: capacitance change with temperature, dissipation factor and DC leakage current shall not exceed the limits of the following table.

| TEMP.   | $ \begin{tabular}{ll} CAPACITANCE \\ CHANGE \\ C_RU_R \le 1900 \\ C_RU_R > 1900 \\ \end{tabular} $ | DISSIPATION<br>FACTOR<br>I <sub>L</sub> | LEAKAGE<br>CURRENT                       |
|---------|--|---|--|
| -55 °C  | -10 %  | 9 %                                     |  |
| -33 0   | -10 %  | 11 %                                    | -  |
| 25.00   |  | 6 %                                     | 0.01 C <sub>R</sub> x U <sub>R</sub> or  |
| +25 °C  | -  | 8 %                                     | 1 μA whichever is greater                |
| 25.00   | 10.07  | 9 %                                     | 0.1 C <sub>R</sub> x U <sub>R</sub> or   |
| +85 °C  | +12 %  | 11 %                                    | 10 μA whichever is greater               |
|         |  | 12 %                                    | 0.125 C <sub>R</sub> x U <sub>R</sub> or |
| +125 °C | +15 %  | 14 %                                    | 12.5 µA<br>whichever<br>is greater       |

7. Life Test: 2000 h at +85 °C with rated voltage applied 2000 h at +125 °C with category voltage applied  $\Delta C/C \le 10$  % of initial value IL ≤ 1.25 initial limit

DF ≤ initial limit

8. Humidity Test: 56 days at +40 °C, 90 % relative humidity

 $\Delta C/C \le 8$  % of initial value

IL ≤ initial limit

DF ≤ initial limit

9. Charge and Discharge Test:

1 million cycles at +85 °C, 0.5 s charge at U<sub>R</sub> 0.5 s discharge Series resistance  $< 0.5 \Omega$  $\Delta C/C \le 5$  % of initial value

IL ≤ initial limit DF ≤ initial limit

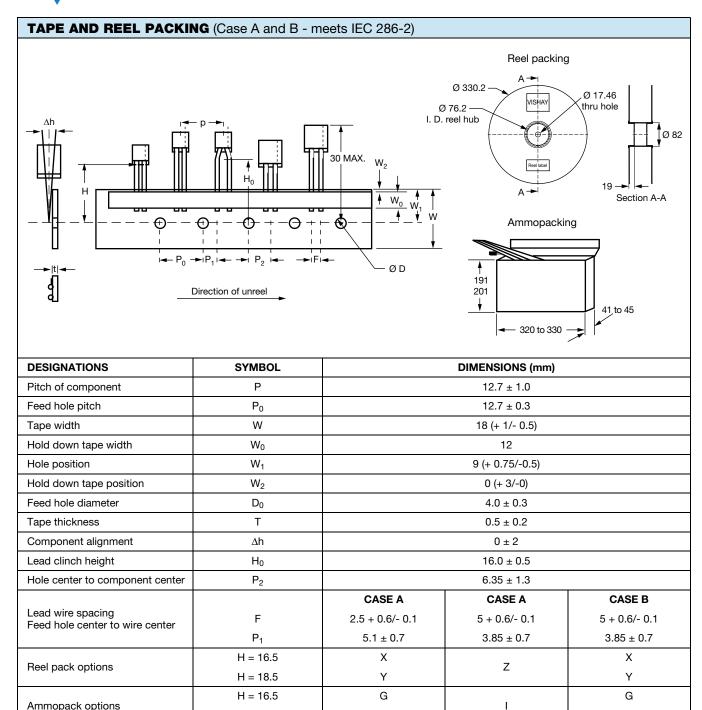
10. Marking:

Top: Rating and polarity

Front: Type, date code, Vishay identification

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Н

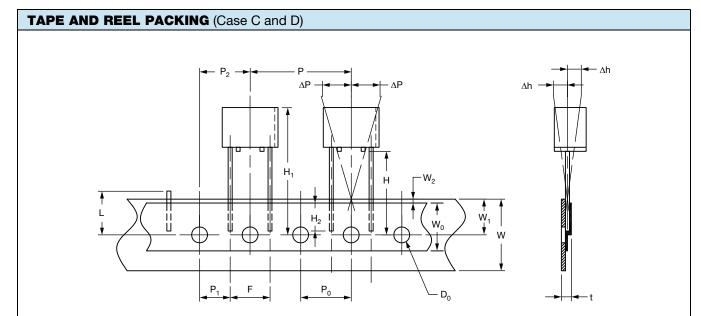


Н

H = 18.5

Ammopack options





| DESIGNATIONS                            | SYMBOL         | DIMENSI              | ONS (mm)          |  |  |
|---|----------------|----------------------|-------------------|--|--|
| Pitch of component                      | Р              | 25.4 ± 1.0           |                   |  |  |
| Feed hole pitch                         | P <sub>0</sub> | 12.7                 | ± 0.3             |  |  |
| Tape width                              | W              | 18.0 (+              | 1/- 0.5)          |  |  |
| Hold down tape width                    | W <sub>0</sub> | 1                    | 2                 |  |  |
| Hole position                           | W <sub>1</sub> | 9.0 (+ 0.            | 75/- 0.5)         |  |  |
| Hold down tape position                 | W <sub>2</sub> | 0 (+ 3               | 3/- 0)            |  |  |
| Maximum height of components            | H <sub>1</sub> | 32 r                 | nax.              |  |  |
| Tolerance of positioning parts sideways | ΔΡ             | 0 ±                  | 1.0               |  |  |
| Feed hole diameter                      | $D_0$          | $4.0 \pm 0.3$        |                   |  |  |
| Tape thickness                          | t              | $0.5 \pm 0.2$        |                   |  |  |
| Component alignment                     | Δh             | 0 ± 2                |                   |  |  |
| Cut out length                          | L              | 11 max.              |                   |  |  |
| Lead wire spacing                       | F              | 10.16 +              | 10.16 + 0.6/- 0.1 |  |  |
| Feed hole center to wire center         | P <sub>1</sub> | 7.62                 | ± 0.7             |  |  |
| Hole center to component center         | $P_2$          | 12.7                 | ± 1.0             |  |  |
| Length of leads under adhesive tape     | H <sub>2</sub> | 5.0 min. to 9.0 max. |                   |  |  |
|   |                | CASE C               | CASE D            |  |  |
| Reel pack options                       | H = 16.5       | X                    | X                 |  |  |
|   | H = 18.5       | Y                    | Υ                 |  |  |
| Ammanack antions                        | H = 16.5       | G                    | G                 |  |  |
| Ammopack options                        | H = 18.5       | Н                    | Н                 |  |  |

| PRODUCT INFORMATION  |                          |
|--|--------------------------|
| Quick Reference Guide  | www.vishay.com/doc?40037 |
| Selector Guide   | www.vishay.com/doc?49054 |
| Parameter Comparison Guide   | www.vishay.com/doc?40033 |
| Mounting of Through-Hole Components  | www.vishay.com/doc?40108 |
| Frequently Asked Questions   | www.vishay.com/doc?40110 |
| Solid Tantalum Capacitors (With MnO <sub>2</sub> Electrolyte) Voltage Derating | www.vishay.com/doc?40246 |

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