

## Aluminum Capacitors + 85 °C, Miniature, Axial Lead



Fig.1 Component outlines

### FEATURES

- Low leakage current
- Long shelf life
- Ideal for application in TV sets, auto radios, radio-phone combinations, electronic testing equipment



### QUICK REFERENCE DATA

| DESCRIPTION                             | VALUE                                |
|-----------------------------------------|--------------------------------------|
| Nominal case size<br>Ø D x L in mm      | 6.350 x 12.700<br>to 34.925 x 92.075 |
| Operating temperature                   |                                      |
| 6 WVDC to 100 WVDC                      | - 40 °C to + 85 °C                   |
| 101 WVDC to 475 WVDC                    | - 20 °C to + 85 °C                   |
| 500 WVDC and higher                     | 20 °C to + 65 °C                     |
| Rated Capacitance range, C <sub>R</sub> | 1 µF to 15 000 µF                    |

### ORDERING EXAMPLE (1)

Order by Distribution part no. Example: TVA1318.7

**Note** (1) For lead (Pb)-free/RoHS compliant products add the suffix “-E3” to the part no. Example: TVA1318.7-E3

### DIMENSIONS in inches [millimeters]

| CASE CODE | D              | L              | CASE CODE | D              | L               |
|-----------|----------------|----------------|-----------|----------------|-----------------|
| BA        | 0.250 [6.350]  | 0.500 [12.700] | FJ        | 0.625 [15.875] | 1.625 [41.275]  |
| BB        | 0.250 [6.350]  | 0.687 [17.450] | FK        | 0.485 [12.319] | 1.750 [44.450]  |
| CB        | 0.312 [7.925]  | 0.687 [17.450] | GE        | 0.750 [19.050] | 1.125 [28.575]  |
| CC        | 0.312 [7.925]  | 0.812 [20.625] | GG        | 0.750 [19.050] | 1.375 [34.925]  |
| DC        | 0.375 [9.525]  | 0.812 [20.625] | GH        | 0.625 [15.875] | 1.500 [38.100]  |
| DD        | 0.375 [9.525]  | 0.937 [23.800] | GL        | 0.750 [19.050] | 2.125 [53.975]  |
| DF        | 0.375 [9.525]  | 1.250 [31.750] | GK        | 0.625 [15.875] | 1.750 [44.450]  |
| DH        | 0.375 [9.525]  | 1.500 [38.100] | GJ        | 0.750 [19.050] | 1.625 [41.275]  |
| EE        | 0.500 [12.700] | 1.125 [28.575] | HG        | 0.875 [22.225] | 1.375 [34.925]  |
| EF        | 0.438 [11.125] | 1.250 [31.750] | HJ        | 0.875 [22.225] | 1.625 [41.275]  |
| EG        | 0.500 [12.700] | 1.375 [34.925] | HK        | 0.875 [22.225] | 1.875 [47.625]  |
| EH        | 0.438 [11.125] | 1.500 [38.100] | HL        | 0.875 [22.225] | 2.125 [53.975]  |
| EJ        | 0.500 [12.700] | 1.625 [41.275] | JB        | 1.0 [25.4]     | 3.375 [85.725]  |
| FG        | 0.625 [15.875] | 1.375 [34.925] | JJ        | 1.0 [25.4]     | 1.625 [41.275]  |
| FH        | 0.485 [12.319] | 1.500 [38.100] | JK        | 1.0 [25.4]     | 1.875 [47.625]  |
| JL        | 1.0 [25.4]     | 2.125 [53.975] | KP        | 1.125 [28.575] | 2.625 [66.675]  |
| JN        | 1.0 [25.4]     | 2.375 [60.325] | KS        | 1.125 [28.575] | 3.125 [79.375]  |
| JP        | 1.0 [25.4]     | 2.625 [66.675] | LP        | 1.250 [31.750] | 2.625 [66.675]  |
| JR        | 1.0 [25.4]     | 2.875 [73.025] | LS        | 1.250 [31.750] | 3.125 [79.375]  |
| JS        | 1.0 [25.4]     | 3.125 [79.375] | LT        | 1.250 [31.750] | 3.625 [92.075]  |
| JU        | 1.0 [25.4]     | 3.625 [92.075] | MD        | 1.375 [34.925] | 4.125 [104.775] |
| JW        | 1.0 [25.4]     | 3.875 [98.425] | MN        | 1.375 [34.925] | 2.375 [60.325]  |
| KL        | 1.125 [28.575] | 2.125 [53.975] | MS        | 1.375 [34.925] | 3.125 [79.375]  |
| KN        | 1.125 [28.575] | 2.375 [60.325] | MT        | 1.375 [34.925] | 3.625 [92.075]  |



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**TVA ATOM®**  
Vishay Sprague

**ELECTRICAL DATA AND ORDERING INFORMATION**

| CAPACITANCE<br>( $\mu$ F) | WVDC | CASE<br>CODE | PART NUMBER <sup>(1)</sup> |
|---------------------------|------|--------------|----------------------------|
| SINGLE UNITS (POLARIZED)  |      |              |                            |
| 200.0                     | 6    | CB           | TVA1101.7                  |
| 5000.0                    | 10   | GK           | TVA1129.5                  |
| 25.0                      | 16   | BA           | TVA1148                    |
| 50.0                      | 16   | BB           | TVA1150                    |
| 100.0                     | 16   | CB           | TVA1160                    |
| 200.0                     | 16   | CC           | TVA1160.6                  |
| 250.0                     | 16   | DC           | TVA1161                    |
| 500.0                     | 16   | DD           | TVA1162                    |
| 600.0                     | 16   | DF           | TVA1162.2                  |
| 800.0                     | 16   | DF           | TVA1162.3                  |
| 1000.0                    | 16   | DH           | TVA1163                    |
| 1200.0                    | 16   | EH           | TVA1164                    |
| 1500.0                    | 16   | EH           | TVA1175.2                  |
| 2000.0                    | 16   | FK           | TVA1170                    |
| 3000.0                    | 16   | GH           | TVA1175                    |
| 5000.0                    | 16   | JL           | TVA1175.5                  |
| 10 000.0                  | 16   | LP           | TVA1175.8                  |
| 10.0                      | 25   | BA           | TVA1204                    |
| 25.0                      | 25   | BA           | TVA1205                    |
| 50.0                      | 25   | BB           | TVA1206                    |
| 75.0                      | 25   | CB           | TVA1206.1                  |
| 100.0                     | 25   | CC           | TVA1207                    |
| 150.0                     | 25   | DC           | TVA1207.5                  |
| 200.0                     | 25   | DC           | TVA1207.7                  |
| 250.0                     | 25   | DD           | TVA1208                    |
| 500.0                     | 25   | EF           | TVA1209                    |
| 1000.0                    | 25   | FH           | TVA1211                    |
| 1500.0                    | 25   | GH           | TVA1212                    |
| 2000.0                    | 25   | GK           | TVA1213                    |
| 2500.0                    | 25   | JK           | TVA1213.5                  |
| 5000.0                    | 25   | KP           | TVA1214.5                  |
| 500.0                     | 35   | EH           | TVA1227                    |
| 5500.0                    | 35   | JB           | TVA1229                    |
| 1.0                       | 50   | BA           | TVA1300                    |
| 2.0                       | 50   | BA           | TVA1301                    |
| 5.0                       | 50   | BA           | TVA1303                    |
| 5.0                       | 50   | BA           | TVA1303.1                  |
| 10.0                      | 50   | BA           | TVA1304                    |
| 15.0                      | 50   | BB           | TVA1305                    |
| 20.0                      | 50   | BB           | TVA1305.5                  |
| 25.0                      | 50   | BB           | TVA1306                    |
| 40.0                      | 50   | CC           | TVA1306.5                  |
| 50.0                      | 50   | CC           | TVA1308                    |
| 75.0                      | 50   | DC           | TVA1309.4                  |
| 100.0                     | 50   | DC           | TVA1310                    |
| 150.0                     | 50   | DD           | TVA1311                    |
| 200.0                     | 50   | DF           | TVA1311.5                  |
| 250.0                     | 50   | DH           | TVA1312                    |
| 300.0                     | 50   | EF           | TVA1312.1                  |
| 400.0                     | 50   | FH           | TVA1313                    |
| 500.0                     | 50   | FH           | TVA1315                    |
| 600.0                     | 50   | GH           | TVA1315.2                  |
| 1000.0                    | 50   | GK           | TVA1316                    |
| 1500.0                    | 50   | HL           | TVA1318                    |
| 2000.0                    | 50   | KL           | TVA1318.2                  |
| 2500.0                    | 50   | KP           | TVA1318.3                  |
| 3000.0                    | 50   | LP           | TVA1318.4                  |
| 5000.0                    | 50   | MS           | TVA1318.7                  |
| 1.0                       | 63   | BA           | TVA1319.10                 |
| 10.0                      | 100  | CB           | TVA1337                    |

**Note**

<sup>(1)</sup> For other capacitance and voltage ratings, please see Types 500D and 53D.

# ELECTRICAL DATA AND ORDERING INFORMATION

| CAPACITANCE<br>( $\mu$ F) | WVDC | CASE<br>CODE | PART NUMBER <sup>(1)</sup> |
|---------------------------|------|--------------|----------------------------|
| SINGLE UNITS (POLARIZED)  |      |              |                            |
| 50.0                      | 100  | DF           | TVA1343                    |
| 100.0                     | 100  | EH           | TVA1346                    |
| 250.0                     | 100  | GK           | TVA1349                    |
| 500.0                     | 100  | KL           | TVA1376                    |
| 1.0                       | 150  | BA           | TVA1400                    |
| 2.0                       | 150  | BB           | TVA1400.1                  |
| 4.0                       | 150  | CC           | TVA1402                    |
| 5.0                       | 150  | CC           | TVA1403                    |
| 8.0                       | 150  | DC           | TVA1405                    |
| 10.0                      | 150  | DC           | TVA1406                    |
| 16.0                      | 150  | DD           | TVA1409                    |
| 20.0                      | 150  | DF           | TVA1410                    |
| 25.0                      | 150  | DF           | TVA1411                    |
| 30.0                      | 150  | EF           | TVA1412                    |
| 40.0                      | 150  | EH           | TVA1413                    |
| 50.0                      | 150  | EH           | TVA1414                    |
| 80.0                      | 150  | GK           | TVA1418                    |
| 100.0                     | 150  | GK           | TVA1420                    |
| 150.0                     | 150  | HL           | TVA1422                    |
| 200.0                     | 150  | JL           | TVA1423                    |
| 300.0                     | 150  | KP           | TVA1425                    |
| 3.0                       | 200  | CC           | TVA1436                    |
| 5.0                       | 200  | DC           | TVA1438                    |
| 10.0                      | 200  | DD           | TVA1441                    |
| 20.0                      | 200  | EF           | TVA1442.1                  |
| 100.0                     | 200  | HL           | TVA1445                    |
| 4.0                       | 250  | DC           | TVA1501                    |
| 10.0                      | 250  | DF           | TVA1504                    |
| 12.0                      | 250  | EF           | TVA1505                    |
| 20.0                      | 250  | EH           | TVA1508                    |
| 30.0                      | 250  | GH           | TVA1510                    |
| 40.0                      | 250  | GK           | TVA1511                    |
| 50.0                      | 250  | HG           | TVA1512                    |
| 60.0                      | 250  | HJ           | TVA1513                    |
| 100.0                     | 250  | JK           | TVA1522                    |
| 1.0                       | 300  | CB           | TVA1540                    |
| 3.0                       | 350  | DD           | TVA1600.1                  |
| 4.0                       | 350  | DF           | TVA1601                    |
| 5.0                       | 350  | DF           | TVA1602.5                  |
| 8.0                       | 350  | EH           | TVA1603                    |
| 10.0                      | 350  | EH           | TVA1604                    |
| 15.0                      | 350  | FK           | TVA1607                    |
| 20.0                      | 350  | GK           | TVA1608                    |
| 60.0                      | 350  | HL           | TVA1613                    |
| 100.0                     | 350  | JP           | TVA1620                    |
| 1.0                       | 450  | DC           | TVA1700                    |
| 2.0                       | 450  | DF           | TVA1701                    |
| 4.0                       | 450  | EH           | TVA1702                    |
| 5.0                       | 450  | EH           | TVA1703                    |
| 8.0                       | 450  | FK           | TVA1704                    |
| 10.0                      | 450  | GK           | TVA1705                    |
| 12.0                      | 450  | GK           | TVA1706                    |
| 20.0                      | 450  | HJ           | TVA1709                    |
| 30.0                      | 450  | HK           | TVA1711                    |
| 40.0                      | 450  | HL           | TVA1712                    |
| 50.0                      | 450  | KL           | TVA1713                    |
| 100.0                     | 450  | LS           | TVA1718                    |
| 60.0                      | 450  | KL           | TVA1714                    |
| 80.0                      | 450  | JP           | TVA1716                    |
| 20.0                      | 500  | HL           | TVA1906                    |
| 16.0                      | 475  | HJ           | TVA1803.1                  |
| 40.0                      | 500  | JN           | TVA1908                    |
| 10.0                      | 600  | JR           | TVA1963                    |
| 20.0                      | 600  | JW           | TVA1966                    |
| 30.0                      | 500  | JJ           | TVA1907                    |

## Note

<sup>(1)</sup> For other capacitance and voltage ratings, please see Types 500D and 53D.



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|------------------------------------------|------|--------------|----------------------------|
| CAPACITANCE<br>( $\mu$ F)                | WVDC | CASE<br>CODE | PART NUMBER <sup>(1)</sup> |
| NON-POLARIZED                            |      |              |                            |
| 50.0                                     | 10   | CB           | TVAN1117                   |
| 10.0                                     | 25   | BB           | TVAN1204.1                 |
| 16.0                                     | 25   | BB           | TVAN1204.3                 |
| 25.0                                     | 25   | CB           | TVAN1205.1                 |
| 50.0                                     | 25   | CC           | TVAN1206.1                 |
| 100.0                                    | 25   | DD           | TVAN1207.1                 |
| 20.0                                     | 30   | CB           | TVAN1220                   |
| 2.0                                      | 50   | BA           | TVAN1301.1                 |
| 3.0                                      | 50   | BA           | TVAN1302.1                 |
| 5.0                                      | 50   | BB           | TVAN1303.1                 |
| 8.0                                      | 50   | BB           | TVAN1303.4                 |
| 10.0                                     | 50   | CB           | TVAN1304.1                 |
| 25.0                                     | 50   | DC           | TVAN1306.1                 |
| 50.0                                     | 50   | DD           | TVAN1308.1                 |
| 100.0                                    | 50   | DH           | TVAN1310.1                 |
| 10.0                                     | 100  | EJ           | TVAN1333                   |
| 20.0                                     | 100  | FJ           | TVAN1335                   |
| 60.0                                     | 200  | JP           | TVAN1440                   |
| 1.0                                      | 300  | EG           | TVAN1560                   |
| 5.0                                      | 350  | GJ           | TVAN1602                   |
| 20.0                                     | 400  | JL           | TVAN1652                   |

**Note**

<sup>(1)</sup> For other capacitance and voltage ratings, please see Types 500D and 53D.



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