

## 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]  |



| <b>ELECTRICAL DATA AND ORDERING INFORMATION</b> |             |                      |                                   |
|---|-------------|----------------------|-----------------------------------|
| <b>CAPACITANCE<br/>(µF)</b>                     | <b>WVDC</b> | <b>CASE<br/>CODE</b> | <b>PART NUMBER <sup>(1)</sup></b> |
| <b>SINGLE UNITS (POLARIZED)</b>                 |             |                      |                                   |
| 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> |
|---------------------------------|------|--------------|----------------------------|
| <b>SINGLE UNITS (POLARIZED)</b> |      |              |                            |
| 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.



| <b>ELECTRICAL DATA AND ORDERING INFORMATION</b> |             |                      |                                   |
|---|-------------|----------------------|-----------------------------------|
| <b>CAPACITANCE<br/>(<math>\mu</math>F)</b>      | <b>WVDC</b> | <b>CASE<br/>CODE</b> | <b>PART NUMBER <sup>(1)</sup></b> |
| <b>NON-POLARIZED</b>                            |             |                      |                                   |
| 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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