

## 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]  |

**ELECTRICAL DATA AND ORDERING INFORMATION**

| CAPACITANCE<br>( $\mu$ F)       | WVDC | CASE<br>CODE | PART NUMBER <sup>(1)</sup> |
|---------------------------------|------|--------------|----------------------------|
| <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.

| <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>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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Телефон: 8 (812) 309-75-97 (многоканальный)

Факс: 8 (812) 320-03-32

Электронная почта: [ocean@oceanchips.ru](mailto:ocean@oceanchips.ru)

Web: <http://oceanchips.ru/>

Адрес: 198099, г. Санкт-Петербург, ул. Калинина, д. 2, корп. 4, лит. А