

Aluminum Capacitors +85 °C, Miniature, Axial Lead



FEATURES

- Low leakage current
- Long shelf life
- Ideal for application in TV sets, auto radios, radio-phone combinations, electronic testing equipment
- Material categorization: for definitions of compliance please see www.vishay.com/doc?99912



| QUICK REFERENCE DATA | |
|--|---|
| DESCRIPTION | VALUE |
| Nominal case size Ø D x L in mm | 6.350 x 12.700 to 34.925 x 92.075 |
| Operating temperature 6 WV _{DC} to 100 WV _{DC} 101 WV _{DC} to 475 WV _{DC} 500 WV _{DC} and higher | -40 °C to +85 °C -20 °C to +85 °C 20 °C to +65 °C |
| Rated capacitance range, C _R | 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 (µF) | CASE CODE | PART NUMBER (1) | LEAD DIAMETER (AWG) |
| SINGLE UNITS (POLARIZED) | | | |
| 6 WV_{DC} | | | |
| 200.0 | CB | TVA1101.7 | 20 |
| 10 WV_{DC} | | | |
| 5000.0 | GK | TVA1129.5 | 20 |
| 16 WV_{DC} | | | |
| 25.0 | BA | TVA1148 | 20 |
| 50.0 | BB | TVA1150 | 20 |
| 100.0 | CB | TVA1160 | 20 |
| 200.0 | CC | TVA1160.6 | 20 |
| 250.0 | DC | TVA1161 | 20 |
| 500.0 | DD | TVA1162 | 20 |
| 600.0 | DF | TVA1162.2 | 20 |
| 800.0 | DF | TVA1162.3 | 20 |
| 1000.0 | DH | TVA1163 | 20 |
| 1200.0 | EH | TVA1164 | 20 |
| 1500.0 | EH | TVA1175.2 | 20 |
| 2000.0 | FK | TVA1170 | 20 |
| 3000.0 | GH | TVA1175 | 20 |
| 5000.0 | JL | TVA1175.5 | 20 |
| 10 000.0 | LP | TVA1175.8 | 20 |
| 25 WV_{DC} | | | |
| 10.0 | BA | TVA1204 | 20 |
| 25.0 | BA | TVA1205 | 20 |
| 50.0 | BB | TVA1206 | 20 |
| 75.0 | CB | TVA1206.1 | 20 |
| 100.0 | CC | TVA1207 | 20 |
| 150.0 | DC | TVA1207.5 | 20 |
| 200.0 | DC | TVA1207.7 | 20 |
| 250.0 | DD | TVA1208 | 20 |
| 500.0 | EF | TVA1209 | 20 |
| 1000.0 | FH | TVA1211 | 20 |
| 1500.0 | GH | TVA1212 | 20 |
| 2000.0 | GK | TVA1213 | 20 |
| 2500.0 | JK | TVA1213.5 | 20 |
| 5000.0 | KP | TVA1214.5 | 18 |
| 35 WV_{DC} | | | |
| 500.0 | EH | TVA1227 | 20 |
| 5500.0 | JB | TVA1229 | 18 |
| 50 WV_{DC} | | | |
| 1.0 | BA | TVA1300 | 20 |
| 2.0 | BA | TVA1301 | 20 |
| 5.0 | BA | TVA1303 | 20 |
| 5.0 | BA | TVA1303.1 | 20 |
| 10.0 | BA | TVA1304 | 20 |
| 15.0 | BB | TVA1305 | 20 |
| 20.0 | BB | TVA1305.5 | 20 |
| 25.0 | BB | TVA1306 | 20 |
| 40.0 | CC | TVA1306.5 | 20 |
| 50.0 | CC | TVA1308 | 20 |
| 75.0 | DC | TVA1309.4 | 20 |
| 100.0 | DC | TVA1310 | 20 |
| 150.0 | DD | TVA1311 | 20 |
| 200.0 | DF | TVA1311.5 | 20 |
| 250.0 | DH | TVA1312 | 20 |
| 300.0 | EF | TVA1312.1 | 20 |
| 400.0 | FH | TVA1313 | 20 |
| 500.0 | FH | TVA1315 | 20 |
| 600.0 | GH | TVA1315.2 | 20 |
| 1000.0 | GK | TVA1316 | 20 |

Note

(1) For other capacitance and voltage ratings, please see types 500D and 53D.



| ELECTRICAL DATA AND ORDERING INFORMATION | | | |
|--|-----------|-----------------|---------------------|
| CAPACITANCE (μF) | CASE CODE | PART NUMBER (1) | LEAD DIAMETER (AWG) |
| SINGLE UNITS (POLARIZED) | | | |
| 50 WV_{DC} | | | |
| 1500.0 | HL | TVA1318 | 18 |
| 2000.0 | KL | TVA1318.2 | 18 |
| 2500.0 | KP | TVA1318.3 | 18 |
| 3000.0 | LP | TVA1318.4 | 18 |
| 5000.0 | MS | TVA1318.7 | 18 |
| 63 WV_{DC} | | | |
| 1.0 | BA | TVA1319.10 | 20 |
| 100 WV_{DC} | | | |
| 10.0 | CB | TVA1337 | 20 |
| 50.0 | DF | TVA1343 | 20 |
| 100.0 | EH | TVA1346 | 20 |
| 250.0 | GK | TVA1349 | 20 |
| 500.0 | KL | TVA1376 | 20 |
| 150 WV_{DC} | | | |
| 1.0 | BA | TVA1400 | 20 |
| 2.0 | BB | TVA1400.1 | 20 |
| 4.0 | CC | TVA1402 | 20 |
| 5.0 | CC | TVA1403 | 20 |
| 8.0 | DC | TVA1405 | 20 |
| 10.0 | DC | TVA1406 | 20 |
| 16.0 | DD | TVA1409 | 20 |
| 20.0 | DF | TVA1410 | 20 |
| 25.0 | DF | TVA1411 | 20 |
| 30.0 | EF | TVA1412 | 20 |
| 40.0 | EH | TVA1413 | 20 |
| 50.0 | EH | TVA1414 | 20 |
| 80.0 | GK | TVA1418 | 20 |
| 100.0 | GK | TVA1420 | 20 |
| 150.0 | HL | TVA1422 | 20 |
| 200.0 | JL | TVA1423 | 18 |
| 300.0 | KP | TVA1425 | 18 |
| 200 WV_{DC} | | | |
| 3.0 | CC | TVA1436 | 20 |
| 5.0 | DC | TVA1438 | 20 |
| 10.0 | DD | TVA1441 | 20 |
| 20.0 | EF | TVA1442.1 | 20 |
| 100.0 | HL | TVA1445 | 18 |
| 250 WV_{DC} | | | |
| 4.0 | DC | TVA1501 | 20 |
| 10.0 | DF | TVA1504 | 20 |
| 12.0 | EF | TVA1505 | 20 |
| 20.0 | EH | TVA1508 | 20 |
| 30.0 | GH | TVA1510 | 20 |
| 40.0 | GK | TVA1511 | 20 |
| 50.0 | HG | TVA1512 | 18 |
| 60.0 | HJ | TVA1513 | 18 |
| 100.0 | JK | TVA1522 | 18 |
| 300 WV_{DC} | | | |
| 1.0 | CB | TVA1540 | 20 |
| 350 WV_{DC} | | | |
| 3.0 | DD | TVA1600.1 | 20 |
| 4.0 | DF | TVA1601 | 20 |
| 5.0 | DF | TVA1602.5 | 20 |
| 8.0 | EH | TVA1603 | 20 |
| 10.0 | EH | TVA1604 | 20 |
| 15.0 | FK | TVA1607 | 20 |
| 20.0 | GK | TVA1608 | 20 |
| 60.0 | HL | TVA1613 | 18 |
| 100.0 | JP | TVA1620 | 18 |

Note

(1) For other capacitance and voltage ratings, please see types 500D and 53D.



| ELECTRICAL DATA AND ORDERING INFORMATION | | | |
|--|-----------|-----------------|---------------------|
| CAPACITANCE (μF) | CASE CODE | PART NUMBER (1) | LEAD DIAMETER (AWG) |
| SINGLE UNITS (POLARIZED) | | | |
| 450 WV_{DC} | | | |
| 1.0 | DC | TVA1700 | 20 |
| 2.0 | DF | TVA1701 | 20 |
| 4.0 | EH | TVA1702 | 20 |
| 5.0 | EH | TVA1703 | 20 |
| 8.0 | FK | TVA1704 | 20 |
| 10.0 | GK | TVA1705 | 20 |
| 12.0 | GK | TVA1706 | 20 |
| 20.0 | HJ | TVA1709 | 18 |
| 30.0 | HK | TVA1711 | 18 |
| 40.0 | HL | TVA1712 | 18 |
| 50.0 | KL | TVA1713 | 18 |
| 100.0 | LS | TVA1718 | 18 |
| 60.0 | KL | TVA1714 | 18 |
| 80.0 | JP | TVA1716 | 18 |
| 475 WV_{DC} | | | |
| 16.0 | HJ | TVA1803.1 | 18 |
| 500 WV_{DC} | | | |
| 20.0 | HL | TVA1906 | 18 |
| 40.0 | JN | TVA1908 | 18 |
| 30.0 | JJ | TVA1907 | 18 |
| 600 WV_{DC} | | | |
| 10.0 | JR | TVA1963 | 18 |
| 20.0 | JW | TVA1966 | 18 |
| NON-POLARIZED | | | |
| 10 WV_{DC} | | | |
| 50.0 | CB | TVAN1117 | 20 |
| 25 WV_{DC} | | | |
| 10.0 | BB | TVAN1204.1 | 20 |
| 16.0 | BB | TVAN1204.3 | 20 |
| 25.0 | CB | TVAN1205.1 | 20 |
| 50.0 | CC | TVAN1206.1 | 20 |
| 100.0 | DD | TVAN1207.1 | 20 |
| 30 WV_{DC} | | | |
| 20.0 | CB | TVAN1220 | 20 |
| 50 WV_{DC} | | | |
| 2.0 | BA | TVAN1301.1 | 20 |
| 3.0 | BA | TVAN1302.1 | 20 |
| 5.0 | BB | TVAN1303.1 | 20 |
| 8.0 | BB | TVAN1303.4 | 20 |
| 10.0 | CB | TVAN1304.1 | 20 |
| 25.0 | DC | TVAN1306.1 | 20 |
| 50.0 | DD | TVAN1308.1 | 20 |
| 100.0 | DH | TVAN1310.1 | 20 |
| 100 WV_{DC} | | | |
| 10.0 | EJ | TVAN1333 | 18 |
| 20.0 | FJ | TVAN1335 | 18 |
| 200 WV_{DC} | | | |
| 60.0 | JP | TVAN1440 | 18 |
| 300 WV_{DC} | | | |
| 1.0 | EG | TVAN1560 | 18 |
| 350 WV_{DC} | | | |
| 5.0 | GJ | TVAN1602 | 18 |
| 400 WV_{DC} | | | |
| 20.0 | JL | TVAN1652 | 18 |

Note

(1) For other capacitance and voltage ratings, please see types 500D and 53D.

Statements about product lifetime are based on calculations and internal testing. They should only be interpreted as estimations. Also due to external factors, the lifetime in the field application may deviate from the calculated lifetime. In general, nothing stated herein shall be construed as a guarantee of durability.



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