# Aluminum Capacitors $+85^{\circ} \mathrm{C}$, 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


## 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

| QUICK REFERENCE DATA |  |
| :---: | :---: |
| DESCRIPTION | VALUE |
| Nominal case size $\varnothing \mathrm{D} \times \mathrm{L}$ in mm | $\begin{gathered} 6.350 \times 12.700 \\ \text { to } 34.925 \times 92.075 \end{gathered}$ |
| Operating temperature $6 \mathrm{WV}_{D C}$ to $100 \mathrm{WV}_{D C}$ $101 \mathrm{WV}_{\mathrm{DC}}$ to $475 \mathrm{WV}_{\mathrm{DC}}$ $500 \mathrm{WV}_{\mathrm{DC}}$ and higher | $\begin{aligned} & -40^{\circ} \mathrm{C} \text { to }+85^{\circ} \mathrm{C} \\ & -20^{\circ} \mathrm{C} \text { to }+85^{\circ} \mathrm{C} \\ & 20^{\circ} \mathrm{C} \text { to }+65^{\circ} \mathrm{C} \end{aligned}$ |
| Rated capacitance range, $\mathrm{C}_{\mathrm{R}}$ | $1 \mu \mathrm{~F}$ to $15000 \mu \mathrm{~F}$ |


| DIMENSIONS in inches [millimeters] |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
| CASE <br> CODE | $\mathbf{D}$ | $\mathbf{L}$ | CASE <br> CODE | $\mathbf{D}$ | $\mathbf{L}$ |
| 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 ( $\mu \mathrm{F}$ ) | 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 |
| 10000.0 | 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 |
|  |  |  |  |
| 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 ( $\mu \mathrm{F}$ ) | CASE CODE | PART NUMBER ${ }^{(1)}$ | LEAD DIAMETER (AWG) |
| :---: | :---: | :---: | :---: |
| SINGLE UNITS (POLARIZED) |  |  |  |
| - $50 \mathbf{W V}_{\text {DC }}$ |  |  |  |
| 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 |
| $63 \mathrm{WV}{ }_{\text {D }}$ |  |  |  |
| 1.0 | BA | TVA1319.10 | 20 |
| $100 \mathrm{WV}_{\text {DC }}$ |  |  |  |
| 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 |
| $150 \mathrm{WV}_{\mathrm{DC}}$ |  |  |  |
| 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 WVDC |  |  |  |
| 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 |
| $300 \mathrm{WV}_{\text {DC }}$ |  |  |  |
| 1.0 | CB | TVA1540 | 20 |
| 350 WV ${ }_{\text {DC }}$ |  |  |  |
| 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 ( $\mu \mathrm{F}$ ) | 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 ${ }_{\text {DC }}$ |  |  |  |
| 16.0 | HJ | TVA1803.1 | 18 |
| 500 WV ${ }_{\text {DC }}$ |  |  |  |
| 20.0 | HL | TVA1906 | 18 |
| 40.0 | JN | TVA1908 | 18 |
| 30.0 | JJ | TVA1907 | 18 |
| $600 \mathrm{WV}_{\text {DC }}$ |  |  |  |
| 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 |
| $50 \mathrm{WV}_{\mathrm{DC}}$ |  |  |  |
| 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 ${ }_{\text {DC }}$ |  |  |  |
| 60.0 | JP | TVAN1440 | 18 |
| 300 WV DC |  |  |  |
| 1.0 | EG | TVAN1560 | 18 |
| $350 \mathrm{WV}_{\text {DC }}$ |  |  |  |
| 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.

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