

# Aluminum Capacitors Little-Lytic Electrolytics

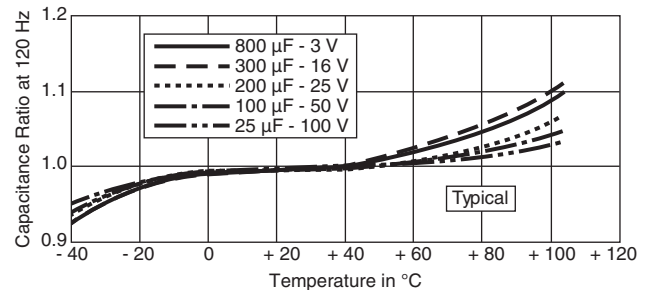


| QUICK REFERENCE DATA                                      |  |
|---|--|
| DESCRIPTION   | VALUE  |
| Operating temperature                                     | -40 °C to +105 °C  |
| Tolerance on C <sub>R</sub>                               | G = + 75 %, - 10 % and<br>F = + 50 %, - 10 %   |
| Ripple current  | 10 mA to 600 mA max. at 120 Hz,<br>depending upon capacitance<br>and voltage.  |
| Life validation test<br>2000 h at +85 °C                  | After test, capacitance value shall<br>not have changed by more than ± 20 %,<br>the equivalent series resistance in ohms<br>shall not have exceeded 150 % of initial<br>requirement and the leakage current<br>shall not have exceeded the<br>initial requirement. |
| DC leakage current  | Maximum DC leakage current at +25 °C<br>for all capacitors is 15 µA, except units<br>in case code DD, which is 15.8 µA.  |
| Shelf test<br>250 h at +85 °C,<br>with no voltage applied | The capacitance and equivalent series<br>resistance shall meet the initial<br>requirements and the DC leakage<br>current shall not exceed 300 % of the<br>initial requirement.   |

## FEATURES

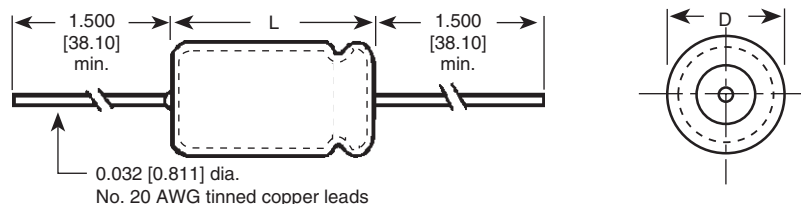
- Proven dependable performance in the industrial and electronic equipment with either transistor or modified electron-tube circuits
- All terminal connections welded, eliminating possibility of open or intermittent contacts occasionally found in pressure joints of conventional capacitors
- Superior in size, performance characteristics, shelf life, construction and reliability
- Metal-encased with clear plastic outer insulating sleeve
- Excellent circuit performance when used as coupling capacitors
- Minimum drain and long battery life when used in battery bypass applications
- Better performance under life test than most miniature aluminum electrolytic capacitors
- Axial lead
- Material categorization: for definitions of compliance please see [www.vishay.com/doc?99912](http://www.vishay.com/doc?99912)

## CAPACITANCE VS. TEMPERATURE



| DIMENSIONS in millimeters |           |            |
|---------------------------|-----------|------------|
| CASE CODE                 | D         | L          |
| BA                        | 6.3 ± 0.7 | 13.0 ± 1.4 |
| BB                        | 6.3 ± 0.7 | 17.5 ± 1.7 |
| CB                        | 8.0 ± 0.6 | 17.5 ± 1.7 |
| CC                        | 8.0 ± 0.6 | 20.5 ± 1.8 |
| DB                        | 9.0 ± 0.7 | 17.5 ± 1.7 |
| DC                        | 9.0 ± 0.7 | 20.5 ± 1.8 |
| DD                        | 9.0 ± 0.7 | 24.0 ± 1.5 |
| DF                        | 9.0 ± 0.7 | 32.0 ± 1.5 |
| DH                        | 9.0 ± 0.7 | 38.0 ± 1.8 |

## DIMENSIONS AND AVAILABLE FORMS





ORDERING EXAMPLE

Order by distribution part no. Example: TE1055

Note

- For lead (Pb)-free/RoHS compliant products add the suffix “-E3” to the shortened Distribution part. no.

Example: TE1055-E3

Note

- For lead (Pb)-free/RoHS compliant products add the suffix “E3” to the standard OEM part no.

Example: 30D256G003BA2E3

| ELECTRICAL DATA AND ORDERING INFORMATION |           |                                 |                        |
|--|-----------|---------------------------------|------------------------|
| CAPACITANCE (μF)                         | CASE CODE | DISTRIBUTOR PART NUMBER         | DESCRIPTOR PART NUMBER |
| <b>3 WV<sub>DC</sub></b>                 |           |                                 |                        |
| 1.0                                      | -         | See 50 WV <sub>DC</sub> listing | -                      |
| 2.0                                      | -         | See 50 WV <sub>DC</sub> listing | -                      |
| 3.0                                      | -         | See 50 WV <sub>DC</sub> listing | -                      |
| 4.0                                      | -         | See 50 WV <sub>DC</sub> listing | -                      |
| 5.0                                      | -         | See 25 WV <sub>DC</sub> listing | -                      |
| 6.0                                      | -         | See 25 WV <sub>DC</sub> listing | -                      |
| 8.0                                      | -         | See 25 WV <sub>DC</sub> listing | -                      |
| 10.0                                     | -         | See 16 WV <sub>DC</sub> listing | -                      |
| 15.0                                     | -         | See 12 WV <sub>DC</sub> listing | -                      |
| 20.0                                     | -         | See 6 WV <sub>DC</sub> listing  | -                      |
| 25.0                                     | BA        | TE1055                          | 30D256G003BA2          |
| 50.0                                     | -         | See 6 WV <sub>DC</sub> listing  | -                      |
| 75.0                                     | -         | See 6 WV <sub>DC</sub> listing  | -                      |
| 100.0                                    | CB        | TE1059.5                        | 30D107G003CB2          |
| 200.0                                    | CC        | TE1064                          | 30D207G003CC2          |
| 300.0                                    | DC        | TE1066                          | 30D307G003DC2          |
| 500.0                                    | DF        | TE1068                          | 30D507G003DF2          |
| <b>6 WV<sub>DC</sub></b>                 |           |                                 |                        |
| 1.0                                      | -         | See 50 WV <sub>DC</sub> listing | -                      |
| 2.0                                      | -         | See 50 WV <sub>DC</sub> listing | -                      |
| 3.0                                      | -         | See 50 WV <sub>DC</sub> listing | -                      |
| 4.0                                      | -         | See 50 WV <sub>DC</sub> listing | -                      |
| 5.0                                      | -         | See 25 WV <sub>DC</sub> listing | -                      |
| 6.0                                      | -         | See 25 WV <sub>DC</sub> listing | -                      |
| 8.0                                      | -         | See 25 WV <sub>DC</sub> listing | -                      |
| 10.0                                     | -         | See 16 WV <sub>DC</sub> listing | -                      |
| 15.0                                     | -         | See 12 WV <sub>DC</sub> listing | -                      |
| 20.0                                     | BA        | TE1090                          | 30D206G006BA2          |
| 25.0                                     | -         | See 16 WV <sub>DC</sub> listing | -                      |
| 35.0                                     | BB        | TE1093                          | 30D356G006BB2          |
| 50.0                                     | BB        | TE1100                          | 30D506G006BB2          |
| 75.0                                     | CB        | TE1101.5                        | 30D756G006CB2          |
| 100.0                                    | -         | See 12 WV <sub>DC</sub> listing | -                      |
| 200.0                                    | DC        | TE1104                          | 30D207G006DC2          |
| 250.0                                    | DD        | TE1105                          | 30D257G006DD2          |
| 300.0                                    | DD        | TE1106                          | 30D307G006DD2          |
| 400.0                                    | DF        | TE1107                          | 30D407G006DF2          |
| 500.0                                    | DH        | TE1107.5                        | 30D507G006DH2          |
| 600.0                                    | DH        | TE1108.5                        | 30D607G006DH2          |



| <b>ELECTRICAL DATA AND ORDERING INFORMATION</b> |                  |                                    |                                   |
|---|------------------|------------------------------------|-----------------------------------|
| <b>CAPACITANCE<br/>(<math>\mu</math>F)</b>      | <b>CASE CODE</b> | <b>DISTRIBUTOR<br/>PART NUMBER</b> | <b>DESCRIPTOR<br/>PART NUMBER</b> |
| <b>12 WV<sub>DC</sub></b>                       |                  |                                    |                                   |
| 1.0   | -                | See 50 WV <sub>DC</sub> listing    | -                                 |
| 2.0   | -                | See 50 WV <sub>DC</sub> listing    | -                                 |
| 3.0   | -                | See 50 WV <sub>DC</sub> listing    | -                                 |
| 4.0   | -                | See 50 WV <sub>DC</sub> listing    | -                                 |
| 5.0   | -                | See 25 WV <sub>DC</sub> listing    | -                                 |
| 6.0   | -                | See 25 WV <sub>DC</sub> listing    | -                                 |
| 8.0   | -                | See 25 WV <sub>DC</sub> listing    | -                                 |
| 10.0  | -                | See 16 WV <sub>DC</sub> listing    | -                                 |
| 15.0  | BA               | TE1129                             | 30D156G012BA2                     |
| 20.0  | -                | See 16 WV <sub>DC</sub> listing    | -                                 |
| 25.0  | -                | See 16 WV <sub>DC</sub> listing    | -                                 |
| 50.0  | -                | See 16 WV <sub>DC</sub> listing    | -                                 |
| 60.0  | CB               | TE1133.5                           | 30D606G012CB2                     |
| 75.0  | -                | See 16 WV <sub>DC</sub> listing    | -                                 |
| 100.0   | CC               | TE1135                             | 30D107G012CC2                     |
| 150.0   | -                | See 16 WV <sub>DC</sub> listing    | —                                 |
| 200.0   | -                | See 16 WV <sub>DC</sub> listing    | —                                 |
| 250.0   | -                | See 16 WV <sub>DC</sub> listing    | —                                 |
| 290.0   | DF               | TE1139                             | 30D297G012DF2                     |
| <b>16 WV<sub>DC</sub></b>                       |                  |                                    |                                   |
| 1.0   | -                | See 50 WV <sub>DC</sub> listing    | -                                 |
| 2.0   | -                | See 50 WV <sub>DC</sub> listing    | -                                 |
| 3.0   | -                | See 50 WV <sub>DC</sub> listing    | -                                 |
| 4.0   | -                | See 50 WV <sub>DC</sub> listing    | -                                 |
| 5.0   | -                | See 25 WV <sub>DC</sub> listing    | -                                 |
| 6.0   | -                | See 25 WV <sub>DC</sub> listing    | -                                 |
| 8.0   | -                | See 25 WV <sub>DC</sub> listing    | -                                 |
| 10.0  | BA               | TE1155                             | 30D106G016BA2                     |
| 15.0  | -                | See 25 WV <sub>DC</sub> listing    | -                                 |
| 20.0  | BB               | TE1157                             | 30D206G016BB2                     |
| 25.0  | BB               | TE1157.1                           | 30D256G016BB2                     |
| 30.0  | -                | See 25 WV <sub>DC</sub> listing    | -                                 |
| 35.0  | -                | See 25 WV <sub>DC</sub> listing    | -                                 |
| 50.0  | CB               | TE1160                             | 30D506G016CB2                     |
| 75.0  | CC               | TE1161                             | 30D756G016CC2                     |
| 100.0   | DC               | TE1162                             | 30D107G016DC2                     |
| 150.0   | DD               | TE1163                             | 30D157G016DD2                     |
| 200.0   | DF               | TE1164                             | 30D207G016DF2                     |
| 250.0   | DF               | TE1164.5                           | 30D257G016DF2                     |
| 300.0   | DH               | TE1165.5                           | 30D307G016DH2                     |
| 350.0   | DH               | TE1166                             | 30D357G016DH2                     |



| <b>ELECTRICAL DATA AND ORDERING INFORMATION</b> |                  |                                    |                                   |
|---|------------------|------------------------------------|-----------------------------------|
| <b>CAPACITANCE<br/>(<math>\mu</math>F)</b>      | <b>CASE CODE</b> | <b>DISTRIBUTOR<br/>PART NUMBER</b> | <b>DESCRIPTOR<br/>PART NUMBER</b> |
| <b>25 WV<sub>DC</sub></b>                       |                  |                                    |                                   |
| 1.0   | -                | See 50 WV <sub>DC</sub> listing    | -                                 |
| 2.0   | -                | See 50 WV <sub>DC</sub> listing    | -                                 |
| 3.0   | -                | See 50 WV <sub>DC</sub> listing    | -                                 |
| 4.0   | -                | See 50 WV <sub>DC</sub> listing    | -                                 |
| 5.0   | BA               | TE1202                             | 30D505G025BA2                     |
| 6.0   | BA               | TE1203                             | 30D605G025BA2                     |
| 8.0   | BA               | TE1203.5                           | 30D805G025BA2                     |
| 10.0  | BB               | TE1204                             | 30D106G025BB2                     |
| 15.0  | BB               | TE1205                             | 30D156G025BB2                     |
| 20.0  | CB               | TE1206                             | 30D206G025CB2                     |
| 25.0  | CB               | TE1207                             | 30D256G025CB2                     |
| 30.0  | CB               | TE1207.5                           | 30D306G025CB2                     |
| 35.0  | CB               | TE1208                             | 30D356G025CB2                     |
| 50.0  | CC               | TE1209                             | 30D506G025CC2                     |
| 75.0  | DC               | TE1210                             | 30D756G025DC2                     |
| 100.0   | DD               | TE1211                             | 30D107G025DD2                     |
| 150.0   | DF               | TE1212                             | 30D157G025DF2                     |
| 200.0   | DH               | TE1213                             | 30D207G025DH2                     |
| <b>50 WV<sub>DC</sub></b>                       |                  |                                    |                                   |
| 1.0   | BA               | TE1300                             | 30D105G050BA2                     |
| 2.0   | BA               | TE1301                             | 30D205G050BA2                     |
| 3.0   | BA               | TE1302                             | 30D305G050BA2                     |
| 4.0   | BA               | TE1302.1                           | 30D405G050BA2                     |
| 5.0   | BB               | TE1303                             | 30D505G050BB2                     |
| 6.0   | BB               | TE1303.1                           | 30D605G050BB2                     |
| 8.0   | BB               | TE1303.3                           | 30D805G050BB2                     |
| 10.0  | CB               | TE1304                             | 30D106G050CB2                     |
| 15.0  | CB               | TE1304.2                           | 30D156G050CB2                     |
| 20.0  | CC               | TE1305                             | 30D206G050CC2                     |
| 25.0  | CC               | TE1305.5                           | 30D256G050CC2                     |
| 35.0  | DC               | TE1306                             | 30D356G050DC2                     |
| 50.0  | DD               | TE1307                             | 30D506G050DD2                     |
| 75.0  | DF               | TE1308                             | 30D756G050DF2                     |
| 100.0   | DH               | TE1309                             | 30D107G050DH2                     |
| <b>100 WV<sub>DC</sub></b>                      |                  |                                    |                                   |
| 1.0   | BA               | TE1400                             | 30D105F100BA2                     |
| 2.0   | BB               | TE1401                             | 30D205F100BB2                     |
| 3.0   | CB               | TE1402                             | 30D305F100CB2                     |
| 4.0   | CB               | TE1403                             | 30D405F100CB2                     |
| 5.0   | CC               | TE1404                             | 30D505F100CC2                     |
| 10.0  | DC               | TE1407                             | 30D106F100DC2                     |
| 15.0  | DD               | TE1408                             | 30D156F100DD2                     |
| 20.0  | DF               | TE1409                             | 30D206F100DF2                     |
| 25.0  | DH               | TE1410                             | 30D256F100DH2                     |
| 30.0  | DH               | TE1411                             | 30D306F100DH2                     |
| <b>150 WV<sub>DC</sub></b>                      |                  |                                    |                                   |
| 1.0   | BA               | TE1500                             | 30D105F150BA2                     |
| 2.0   | BB               | TE1501                             | 30D205F150BB2                     |
| 3.0   | CB               | TE1502                             | 30D305F150CB2                     |
| 4.0   | CC               | TE1503                             | 30D405F150CC2                     |
| 5.0   | CC               | TE1504                             | 30D505F150CC2                     |
| 8.0   | DC               | TE1506                             | 30D805F150DC2                     |
| 10.0  | DD               | TE1507                             | 30D106F150DD2                     |
| 15.0  | DF               | TE1508.1                           | 30D156F150DF2                     |
| 20.0  | DH               | TE1509                             | 30D206F150DH2                     |



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