

# Aluminum Capacitors Little-Lytic™ Electrolytics

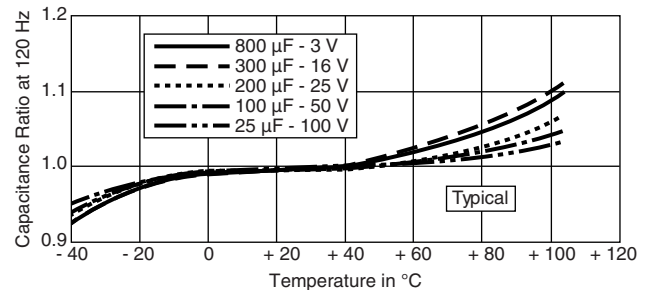


## FEATURES

- 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)

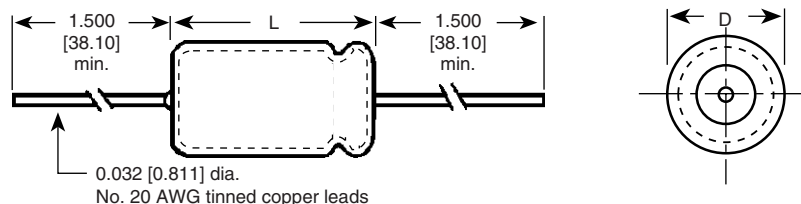
| QUICK REFERENCE DATA                                      |                                                                                                                                                                                                                                                                    |
|-----------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 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.                                                                                     |

## 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                        | 9.5 ± 0.7 | 17.5 ± 1.7 |
| DC                        | 9.5 ± 0.7 | 20.5 ± 1.8 |
| DD                        | 9.5 ± 0.7 | 24.0 ± 1.5 |
| DF                        | 9.5 ± 0.7 | 32.0 ± 1.5 |
| DH                        | 9.5 ± 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

| 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                          | 30D256G003BA2A         |
| 50.0                                     | -         | See 6 WV <sub>DC</sub> listing  | -                      |
| 75.0                                     | -         | See 6 WV <sub>DC</sub> listing  | -                      |
| 100.0                                    | CB        | TE1059.5                        | 30D107G003CB2A         |
| 200.0                                    | CC        | TE1064                          | 30D207G003CC2A         |
| 300.0                                    | DC        | TE1066                          | 30D307G003DC2A         |
| 500.0                                    | DF        | TE1068                          | 30D507G003DF2A         |
| <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                          | 30D206G006BA2A         |
| 25.0                                     | -         | See 16 WV <sub>DC</sub> listing | -                      |
| 35.0                                     | BB        | TE1093                          | 30D356G006BB2A         |
| 50.0                                     | BB        | TE1100                          | 30D506G006BB2A         |
| 75.0                                     | CB        | TE1101.5                        | 30D756G006CB2A         |
| 100.0                                    | -         | See 12 WV <sub>DC</sub> listing | -                      |
| 200.0                                    | DC        | TE1104                          | 30D207G006DC2A         |
| 250.0                                    | DD        | TE1105                          | 30D257G006DD2A         |
| 300.0                                    | DD        | TE1106                          | 30D307G006DD2A         |
| 400.0                                    | DF        | TE1107                          | 30D407G006DF2A         |
| 500.0                                    | DH        | TE1107.5                        | 30D507G006DH2A         |
| 600.0                                    | DH        | TE1108.5                        | 30D607G006DH2A         |



| <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                             | 30D156G012BA2A                    |
| 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                           | 30D606G012CB2A                    |
| 75.0                                            | -                | See 16 WV <sub>DC</sub> listing    | -                                 |
| 100.0                                           | CC               | TE1135                             | 30D107G012CC2A                    |
| 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                             | 30D297G012DF2A                    |
| <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                             | 30D106G016BA2A                    |
| 15.0                                            | -                | See 25 WV <sub>DC</sub> listing    | -                                 |
| 20.0                                            | BB               | TE1157                             | 30D206G016BB2A                    |
| 25.0                                            | BB               | TE1157.1                           | 30D256G016BB2A                    |
| 30.0                                            | -                | See 25 WV <sub>DC</sub> listing    | -                                 |
| 35.0                                            | -                | See 25 WV <sub>DC</sub> listing    | -                                 |
| 50.0                                            | CB               | TE1160                             | 30D506G016CB2A                    |
| 75.0                                            | CC               | TE1161                             | 30D756G016CC2A                    |
| 100.0                                           | DC               | TE1162                             | 30D107G016DC2A                    |
| 150.0                                           | DD               | TE1163                             | 30D157G016DD2A                    |
| 200.0                                           | DF               | TE1164                             | 30D207G016DF2A                    |
| 250.0                                           | DF               | TE1164.5                           | 30D257G016DF2A                    |
| 300.0                                           | DH               | TE1165.5                           | 30D307G016DH2A                    |
| 350.0                                           | DH               | TE1166                             | 30D357G016DH2A                    |



| <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                             | 30D505G025BA2A                    |  |
| 6.0                                             | BA               | TE1203                             | 30D605G025BA2A                    |  |
| 8.0                                             | BA               | TE1203.5                           | 30D805G025BA2A                    |  |
| 10.0                                            | BB               | TE1204                             | 30D106G025BB2A                    |  |
| 15.0                                            | BB               | TE1205                             | 30D156G025BB2A                    |  |
| 20.0                                            | CB               | TE1206                             | 30D206G025CB2A                    |  |
| 25.0                                            | CB               | TE1207                             | 30D256G025CB2A                    |  |
| 30.0                                            | CB               | TE1207.5                           | 30D306G025CB2A                    |  |
| 35.0                                            | CB               | TE1208                             | 30D356G025CB2A                    |  |
| 50.0                                            | CC               | TE1209                             | 30D506G025CC2A                    |  |
| 75.0                                            | DC               | TE1210                             | 30D756G025DC2A                    |  |
| 100.0                                           | DD               | TE1211                             | 30D107G025DD2A                    |  |
| 150.0                                           | DF               | TE1212                             | 30D157G025DF2A                    |  |
| 200.0                                           | DH               | TE1213                             | 30D207G025DH2A                    |  |
| <b>50 WV<sub>DC</sub></b>                       |                  |                                    |                                   |  |
| 1.0                                             | BA               | TE1300                             | 30D105G050BA2A                    |  |
| 2.0                                             | BA               | TE1301                             | 30D205G050BA2A                    |  |
| 3.0                                             | BA               | TE1302                             | 30D305G050BA2A                    |  |
| 4.0                                             | BA               | TE1302.1                           | 30D405G050BA2A                    |  |
| 5.0                                             | BB               | TE1303                             | 30D505G050BB2A                    |  |
| 6.0                                             | BB               | TE1303.1                           | 30D605G050BB2A                    |  |
| 8.0                                             | BB               | TE1303.3                           | 30D805G050BB2A                    |  |
| 10.0                                            | CB               | TE1304                             | 30D106G050CB2A                    |  |
| 15.0                                            | CB               | TE1304.2                           | 30D156G050CB2A                    |  |
| 20.0                                            | CC               | TE1305                             | 30D206G050CC2A                    |  |
| 25.0                                            | CC               | TE1305.5                           | 30D256G050CC2A                    |  |
| 35.0                                            | DC               | TE1306                             | 30D356G050DC2A                    |  |
| 50.0                                            | DD               | TE1307                             | 30D506G050DD2A                    |  |
| 75.0                                            | DF               | TE1308                             | 30D756G050DF2A                    |  |
| 100.0                                           | DH               | TE1309                             | 30D107G050DH2A                    |  |
| <b>100 WV<sub>DC</sub></b>                      |                  |                                    |                                   |  |
| 1.0                                             | BA               | TE1400                             | 30D105F100BA2A                    |  |
| 2.0                                             | BB               | TE1401                             | 30D205F100BB2A                    |  |
| 3.0                                             | CB               | TE1402                             | 30D305F100CB2A                    |  |
| 4.0                                             | CB               | TE1403                             | 30D405F100CB2A                    |  |
| 5.0                                             | CC               | TE1404                             | 30D505F100CC2A                    |  |
| 10.0                                            | DC               | TE1407                             | 30D106F100DC2A                    |  |
| 15.0                                            | DD               | TE1408                             | 30D156F100DD2A                    |  |
| 20.0                                            | DF               | TE1409                             | 30D206F100DF2A                    |  |
| 25.0                                            | DH               | TE1410                             | 30D256F100DH2A                    |  |
| 30.0                                            | DH               | TE1411                             | 30D306F100DH2A                    |  |
| <b>150 WV<sub>DC</sub></b>                      |                  |                                    |                                   |  |
| 1.0                                             | BA               | TE1500                             | 30D105F150BA2A                    |  |
| 2.0                                             | BB               | TE1501                             | 30D205F150BB2A                    |  |
| 3.0                                             | CB               | TE1502                             | 30D305F150CB2A                    |  |
| 4.0                                             | CC               | TE1503                             | 30D405F150CC2A                    |  |
| 5.0                                             | CC               | TE1504                             | 30D505F150CC2A                    |  |
| 8.0                                             | DC               | TE1506                             | 30D805F150DC2A                    |  |
| 10.0                                            | DD               | TE1507                             | 30D106F150DD2A                    |  |
| 15.0                                            | DF               | TE1508.1                           | 30D156F150DF2A                    |  |
| 20.0                                            | DH               | TE1509                             | 30D206F150DH2A                    |  |

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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