

## Aluminum Capacitors Miniature, Axial Lead, High Reliability



### FEATURES

- Life test 2000 h at +125 °C
- Wide temperature range
- Foil tantalum replacement
- Unique Teflon end seal for long life
- High vibration capability
- Material categorization: for definitions of compliance please see [www.vishay.com/doc?99912](http://www.vishay.com/doc?99912)



| QUICK REFERENCE DATA                        |                                                                                                                                                                                 |
|---------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| DESCRIPTION                                 | VALUE                                                                                                                                                                           |
| Nominal case size<br>Ø D x L in inches [mm] | 0.276 x 0.945 [7.0 x 24.0]<br>to 0.374 x 2.677 [9.5 x 68.0]                                                                                                                     |
| Operating temperature                       | -55 °C to +125 °C                                                                                                                                                               |
| Rated capacitance range, C <sub>R</sub>     | 2.2 µF to 2700 µF                                                                                                                                                               |
| Tolerance on C <sub>R</sub>                 | -10 %, +50 %                                                                                                                                                                    |
| Rated voltage range, U <sub>R</sub>         | 5 WV <sub>DC</sub> to 250 WV <sub>DC</sub>                                                                                                                                      |
| Termination                                 | 2 axial leads                                                                                                                                                                   |
| Life validation test at 125 °C              | 2000 h: ΔCAP ≤ 15 % from<br>initial measurement.<br>ΔESR ≤ 1.3 x initial<br>specified limit.<br>ΔDCL ≤ initial specified limit.                                                 |
| Shelf life at 125 °C                        | 500 h: ΔCAP ≤ 10 % from<br>initial measurement.<br>ΔESR ≤ 1.5 x initial<br>specified limit.<br>ΔDCL ≤ 2 x the initial<br>specified limit.                                       |
| DC leakage current<br>(after 5 min charge)  | $I = 0.15 \sqrt{CV}$<br>(0 V <sub>DC</sub> to 75 V <sub>DC</sub> )<br>$I = 0.15 \sqrt{CV} + 5$<br>(100 V <sub>DC</sub> to 250 V <sub>DC</sub> )<br>I in µA, C in µF, V in Volts |

| RIPPLE CURRENT MULTIPLIERS |          |            |             |        |
|----------------------------|----------|------------|-------------|--------|
| TEMPERATURE                |          |            |             |        |
| AMBIENT TEMPERATURE        |          |            | MULTIPLIERS |        |
| +125 °C                    |          |            | 1.0         |        |
| +85 °C                     |          |            | 2.0         |        |
| +75 °C or less             |          |            | 2.4         |        |
| FREQUENCY (Hz)             |          |            |             |        |
| WV <sub>DC</sub>           | 50 to 60 | 100 to 120 | 300 to 400  | > 1000 |
| 0 to 30                    | 0.85     | 1.0        | 1.04        | 1.08   |
| 31 to 250                  | 0.80     | 1.0        | 1.30        | 1.40   |

| DIMENSIONS in inches [millimeters] |                             |                              |                             |               |
|------------------------------------|-----------------------------|------------------------------|-----------------------------|---------------|
| CASE CODE                          | BARE CASE                   |                              | WITH OUTER INSULATION       |               |
|                                    | DIAMETER                    | LENGTH                       | DIAMETER                    | LENGTH (max.) |
| KD                                 | 0.281 ± 0.016 [7.14 ± 0.40] | 0.937 ± 0.031 [23.81 ± 0.79] | 0.297 ± 0.031 [7.54 ± 0.79] | 1.00 [25.40]  |
| DD                                 | 0.375 ± 0.016 [9.53 ± 0.40] | 0.937 ± 0.031 [23.81 ± 0.79] | 0.391 ± 0.031 [9.92 ± 0.79] | 1.00 [25.40]  |
| DE                                 | 0.375 ± 0.016 [9.53 ± 0.40] | 1.125 ± 0.031 [28.58 ± 0.79] | 0.391 ± 0.031 [9.92 ± 0.79] | 1.187 [30.16] |
| DG                                 | 0.375 ± 0.016 [9.53 ± 0.40] | 1.375 ± 0.031 [34.93 ± 0.79] | 0.391 ± 0.031 [9.92 ± 0.79] | 1.437 [36.51] |
| DJ                                 | 0.375 ± 0.016 [9.53 ± 0.40] | 1.625 ± 0.031 [41.28 ± 0.79] | 0.391 ± 0.031 [9.92 ± 0.79] | 1.687 [42.86] |
| DL                                 | 0.375 ± 0.016 [9.53 ± 0.40] | 2.187 ± 0.031 [55.56 ± 0.79] | 0.391 ± 0.031 [9.92 ± 0.79] | 2.249 [57.12] |
| DX                                 | 0.375 ± 0.016 [9.53 ± 0.40] | 2.687 ± 0.031 [68.26 ± 0.79] | 0.391 ± 0.031 [9.92 ± 0.79] | 2.749 [69.82] |

### Note

- Lead diameter AWG 20 (0.032" [0.81 mm])

**ORDERING EXAMPLE**

Electrolytic capacitor 600D series: 600D 227 F 010 DE 4

| DESCRIPTION |                                           |
|-------------|-------------------------------------------|
| CODE        | EXPLANATION                               |
| 600D        | Product type                              |
| 227         | Capacitance value (220 $\mu$ F)           |
| F           | Tolerance (F = -10 % / +50 %)             |
| 010         | Voltage rating at 85 °C (010 = 10 V)      |
| DE          | Can size (see Dimensions table)           |
| 4           | Sleeve and sealing (4 = polyester sleeve) |

**Note**

- For lead (Pb)-free / RoHS compliant products add suffix "E3" to part number.  
Example: 600D227F010DE4E3

| ELECTRICAL DATA AND ORDERING INFORMATION                           |                |                             |                                 |                                     |
|--------------------------------------------------------------------|----------------|-----------------------------|---------------------------------|-------------------------------------|
| CAPACITANCE<br>( $\mu$ F)                                          | PART NUMBER    | NOMINAL CASE SIZE<br>D x L  | MAX. ESR<br>AT +25 °C<br>120 Hz | MAX. RIPPLE<br>AT +125 °C<br>120 Hz |
| 5 WV <sub>DC</sub> AT +85 °C . . . 3 WV <sub>DC</sub> AT +125 °C   |                |                             |                                 |                                     |
| 220                                                                | 600D227F005KD4 | 0.281 x 0.937 [7.14 x 23.8] | 1.75                            | 0.127                               |
| 470                                                                | 600D477F005DD4 | 0.375 x 0.937 [9.53 x 23.8] | 0.813                           | 0.221                               |
| 680                                                                | 600D687F005DE4 | 0.375 x 1.126 [9.53 x 28.6] | 0.564                           | 0.286                               |
| 1000                                                               | 600D108F005DG4 | 0.375 x 1.378 [9.53 x 35.0] | 0.388                           | 0.377                               |
| 1200                                                               | 600D128F005DJ4 | 0.375 x 1.626 [9.53 x 41.3] | 0.32                            | 0.477                               |
| 1800                                                               | 600D188F005DL4 | 0.375 x 2.185 [9.53 x 55.5] | 0.21                            | 0.631                               |
| 2700                                                               | 600D278F005DX4 | 0.375 x 2.685 [9.53 x 68.2] | 0.14                            | 0.851                               |
| 7 WV <sub>DC</sub> AT +85 °C . . . 5 WV <sub>DC</sub> AT +125 °C   |                |                             |                                 |                                     |
| 180                                                                | 600D187F007KD4 | 0.281 x 0.937 [7.14 x 23.8] | 2.121                           | 0.115                               |
| 390                                                                | 600D397F007DD4 | 0.375 x 0.937 [9.53 x 23.8] | 0.972                           | 0.202                               |
| 470                                                                | 600D477F007DE4 | 0.375 x 1.126 [9.53 x 28.6] | 0.813                           | 0.238                               |
| 680                                                                | 600D687F007DG4 | 0.375 x 1.378 [9.53 x 35.0] | 0.564                           | 0.312                               |
| 1000                                                               | 600D108F007DJ4 | 0.375 x 1.626 [9.53 x 41.3] | 0.388                           | 0.406                               |
| 1500                                                               | 600D158F007DL4 | 0.375 x 2.185 [9.53 x 55.5] | 0.26                            | 0.567                               |
| 2200                                                               | 600D228F007DX4 | 0.375 x 2.685 [9.53 x 68.2] | 0.175                           | 0.761                               |
| 10 WV <sub>DC</sub> AT +85 °C . . . 7 WV <sub>DC</sub> AT +125 °C  |                |                             |                                 |                                     |
| 120                                                                | 600D127F010KD4 | 0.281 x 0.937 [7.14 x 23.8] | 3.18                            | 0.094                               |
| 330                                                                | 600D337F010DD4 | 0.375 x 0.937 [9.53 x 23.8] | 1.16                            | 0.185                               |
| 390                                                                | 600D397F010DE4 | 0.375 x 1.126 [9.53 x 28.6] | 0.972                           | 0.218                               |
| 560                                                                | 600D567F010DG4 | 0.375 x 1.378 [9.53 x 35.0] | 0.673                           | 0.286                               |
| 820                                                                | 600D827F010DJ4 | 0.375 x 1.626 [9.53 x 41.3] | 0.46                            | 0.373                               |
| 1200                                                               | 600D128F010DL4 | 0.375 x 2.185 [9.53 x 55.5] | 0.318                           | 0.513                               |
| 1500                                                               | 600D158F010DX4 | 0.375 x 2.685 [9.53 x 68.2] | 0.23                            | 0.664                               |
| 15 WV <sub>DC</sub> AT +85 °C . . . 10 WV <sub>DC</sub> AT +125 °C |                |                             |                                 |                                     |
| 100                                                                | 600D107F015KD4 | 0.281 x 0.937 [7.14 x 23.8] | 3.88                            | 0.085                               |
| 220                                                                | 600D227F015DD4 | 0.375 x 0.937 [9.53 x 23.8] | 1.75                            | 0.15                                |
| 330                                                                | 600D337F015DE4 | 0.375 x 1.126 [9.53 x 28.6] | 1.16                            | 0.199                               |
| 470                                                                | 600D477F015DG4 | 0.375 x 1.378 [9.53 x 35.0] | 0.813                           | 0.26                                |
| 560                                                                | 600D567F015DJ4 | 0.375 x 1.626 [9.53 x 41.3] | 0.686                           | 0.305                               |
| 820                                                                | 600D827F015DL4 | 0.375 x 2.185 [9.53 x 55.5] | 0.46                            | 0.426                               |
| 1200                                                               | 600D128F015DX4 | 0.375 x 2.685 [9.53 x 68.2] | 0.32                            | 0.563                               |

**ELECTRICAL DATA AND ORDERING INFORMATION**

| CAPACITANCE<br>( $\mu$ F)                                               | PART NUMBER    | NOMINAL CASE SIZE<br>D x L  | MAX. ESR<br>AT +25 °C<br>120 Hz | MAX. RIPPLE<br>AT +125 °C<br>120 Hz |
|-------------------------------------------------------------------------|----------------|-----------------------------|---------------------------------|-------------------------------------|
| <b>20 WV<sub>DC</sub> AT +85 °C . . . 15 WV<sub>DC</sub> AT +125 °C</b> |                |                             |                                 |                                     |
| 68                                                                      | 600D686F020KD4 | 0.281 x 0.937 [7.14 x 23.8] | 4.274                           | 0.081                               |
| 150                                                                     | 600D157F020DD4 | 0.375 x 0.937 [9.53 x 23.8] | 1.962                           | 0.142                               |
| 220                                                                     | 600D227F020DE4 | 0.375 x 1.126 [9.53 x 28.6] | 1.325                           | 0.186                               |
| 330                                                                     | 600D337F020DG4 | 0.375 x 1.378 [9.53 x 35.0] | 0.883                           | 0.25                                |
| 390                                                                     | 600D397F020DJ4 | 0.375 x 1.626 [9.53 x 41.3] | 0.257                           | 0.299                               |
| 680                                                                     | 600D687F020DL4 | 0.375 x 2.185 [9.53 x 55.5] | 0.564                           | 0.385                               |
| 820                                                                     | 600D827F020DX4 | 0.375 x 2.685 [9.53 x 68.2] | 0.36                            | 0.53                                |
| <b>30 WV<sub>DC</sub> AT +85 °C . . . 20 WV<sub>DC</sub> AT +125 °C</b> |                |                             |                                 |                                     |
| 47                                                                      | 600D476F030KD4 | 0.281 x 0.937 [7.14 x 23.8] | 3.06                            | 0.096                               |
| 100                                                                     | 600D107F030DD4 | 0.375 x 0.937 [9.53 x 23.8] | 1.50                            | 0.162                               |
| 150                                                                     | 600D157F030DE4 | 0.375 x 1.126 [9.53 x 28.6] | 1.00                            | 0.215                               |
| 220                                                                     | 600D227F030DG4 | 0.375 x 1.378 [9.53 x 35.0] | 0.675                           | 0.285                               |
| 270                                                                     | 600D277F030DJ4 | 0.375 x 1.626 [9.53 x 41.3] | 0.56                            | 0.338                               |
| 390                                                                     | 600D397F030DL4 | 0.375 x 2.185 [9.53 x 55.5] | 0.375                           | 0.472                               |
| 560                                                                     | 600D567F030DX4 | 0.375 x 2.685 [9.53 x 68.2] | 0.264                           | 0.62                                |
| <b>40 WV<sub>DC</sub> AT +85 °C . . . 30 WV<sub>DC</sub> AT +125 °C</b> |                |                             |                                 |                                     |
| 33                                                                      | 600D336F040KD4 | 0.281 x 0.937 [7.14 x 23.8] | 4.50                            | 0.079                               |
| 82                                                                      | 600D826F040DD4 | 0.375 x 0.937 [9.53 x 23.8] | 1.824                           | 0.147                               |
| 100                                                                     | 600D107F040DE4 | 0.375 x 1.126 [9.53 x 28.6] | 1.50                            | 0.175                               |
| 150                                                                     | 600D157F040DG4 | 0.375 x 1.378 [9.53 x 35.0] | 1.00                            | 0.234                               |
| 180                                                                     | 600D187F040DJ4 | 0.375 x 1.626 [9.53 x 41.3] | 0.844                           | 0.275                               |
| 270                                                                     | 600D277F040DL4 | 0.375 x 2.185 [9.53 x 55.5] | 0.54                            | 0.394                               |
| 390                                                                     | 600D397F040DX4 | 0.375 x 2.685 [9.53 x 68.2] | 0.397                           | 0.505                               |
| <b>50 WV<sub>DC</sub> AT +85 °C . . . 40 WV<sub>DC</sub> AT +125 °C</b> |                |                             |                                 |                                     |
| 22                                                                      | 600D226F050KD4 | 0.281 x 0.937 [7.14 x 23.8] | 6.75                            | 0.065                               |
| 56                                                                      | 600D566F050DD4 | 0.375 x 0.937 [9.53 x 23.8] | 2.65                            | 0.122                               |
| 68                                                                      | 600D686F050DE4 | 0.375 x 1.126 [9.53 x 28.6] | 2.17                            | 0.146                               |
| 100                                                                     | 600D107F050DG4 | 0.375 x 1.378 [9.53 x 35.0] | 1.50                            | 0.192                               |
| 150                                                                     | 600D157F050DJ4 | 0.375 x 1.626 [9.53 x 41.3] | 1.00                            | 0.253                               |
| 180                                                                     | 600D187F050DL4 | 0.375 x 2.185 [9.53 x 55.5] | 0.844                           | 0.315                               |
| 270                                                                     | 600D277F050DX4 | 0.375 x 2.685 [9.53 x 68.2] | 0.54                            | 0.433                               |
| <b>60 WV<sub>DC</sub> AT +85 °C . . . 50 WV<sub>DC</sub> AT +125 °C</b> |                |                             |                                 |                                     |
| 15                                                                      | 600D156F060KD4 | 0.281 x 0.937 [7.14 x 23.8] | 9.65                            | 0.055                               |
| 39                                                                      | 600D396F060DD4 | 0.375 x 0.937 [9.53 x 23.8] | 3.85                            | 0.102                               |
| 47                                                                      | 600D476F060DE4 | 0.375 x 1.126 [9.53 x 28.6] | 3.06                            | 0.123                               |
| 82                                                                      | 600D826F060DG4 | 0.375 x 1.378 [9.53 x 35.0] | 1.82                            | 0.174                               |
| 100                                                                     | 600D107F060DJ4 | 0.375 x 1.626 [9.53 x 41.3] | 1.50                            | 0.207                               |
| 150                                                                     | 600D157F060DL4 | 0.375 x 2.185 [9.53 x 55.5] | 1.00                            | 0.29                                |
| 220                                                                     | 600D227F060DX4 | 0.375 x 2.685 [9.53 x 68.2] | 0.675                           | 0.388                               |
| <b>75 WV<sub>DC</sub> AT +85 °C . . . 60 WV<sub>DC</sub> AT +125 °C</b> |                |                             |                                 |                                     |
| 12                                                                      | 600D126F075KD4 | 0.281 x 0.937 [7.14 x 23.8] | 12.3                            | 0.048                               |
| 27                                                                      | 600D276F075DD4 | 0.375 x 0.937 [9.53 x 23.8] | 5.625                           | 0.084                               |
| 39                                                                      | 600D396F075DE4 | 0.375 x 1.126 [9.53 x 28.6] | 3.857                           | 0.11                                |
| 56                                                                      | 600D566F075DG4 | 0.375 x 1.378 [9.53 x 35.0] | 2.64                            | 0.144                               |
| 82                                                                      | 600D826F075DJ4 | 0.375 x 1.626 [9.53 x 41.3] | 1.82                            | 0.187                               |
| 120                                                                     | 600D127F075DL4 | 0.375 x 2.185 [9.53 x 55.5] | 1.227                           | 0.261                               |
| 150                                                                     | 600D157F075DX4 | 0.375 x 2.685 [9.53 x 68.2] | 1.00                            | 0.399                               |

**ELECTRICAL DATA AND ORDERING INFORMATION**

| CAPACITANCE<br>( $\mu$ F)                                                 | PART NUMBER    | NOMINAL CASE SIZE<br>D x L  | MAX. ESR<br>AT +25 °C<br>120 Hz | MAX. RIPPLE<br>AT +125 °C<br>120 Hz |
|---------------------------------------------------------------------------|----------------|-----------------------------|---------------------------------|-------------------------------------|
| <b>100 WV<sub>DC</sub> AT +85 °C . . . 75 WV<sub>DC</sub> AT +125 °C</b>  |                |                             |                                 |                                     |
| 6.8                                                                       | 600D685F100KD4 | 0.281 x 0.937 [7.14 x 23.8] | 22.5                            | 0.036                               |
| 22                                                                        | 600D226F100DD4 | 0.375 x 0.937 [9.53 x 23.8] | 6.75                            | 0.077                               |
| 27                                                                        | 600D276F100DE4 | 0.375 x 1.126 [9.53 x 28.6] | 5.625                           | 0.091                               |
| 39                                                                        | 600D396F100DG4 | 0.375 x 1.378 [9.53 x 35.0] | 3.857                           | 0.12                                |
| 56                                                                        | 600D566F100DJ4 | 0.375 x 1.626 [9.53 x 41.3] | 2.64                            | 0.156                               |
| 82                                                                        | 600D826F100DL4 | 0.375 x 2.185 [9.53 x 55.5] | 1.824                           | 0.215                               |
| 120                                                                       | 600D127F100DX4 | 0.375 x 2.685 [9.53 x 68.2] | 1.27                            | 0.91                                |
| <b>150 WV<sub>DC</sub> AT +85 °C . . . 100 WV<sub>DC</sub> AT +125 °C</b> |                |                             |                                 |                                     |
| 3.3                                                                       | 600D335F150KD4 | 0.281 x 0.937 [7.14 x 23.8] | 38.30                           | 0.028                               |
| 6.8                                                                       | 600D685F150DD4 | 0.375 x 0.937 [9.53 x 23.8] | 19.16                           | 0.046                               |
| 12                                                                        | 600D126F150DE4 | 0.375 x 1.126 [9.53 x 28.6] | 10.5                            | 0.066                               |
| 18                                                                        | 600D186F150DG4 | 0.375 x 1.378 [9.53 x 35.0] | 6.85                            | 0.09                                |
| 22                                                                        | 600D226F150DJ4 | 0.375 x 1.626 [9.53 x 41.3] | 5.75                            | 0.106                               |
| 33                                                                        | 600D336F150DL4 | 0.375 x 2.185 [9.53 x 55.5] | 3.83                            | 0.148                               |
| 47                                                                        | 600D476F150DX4 | 0.375 x 2.685 [9.53 x 68.2] | 2.61                            | 0.197                               |
| <b>200 WV<sub>DC</sub> AT +85 °C . . . 150 WV<sub>DC</sub> AT +125 °C</b> |                |                             |                                 |                                     |
| 3.3                                                                       | 600D335F200KD4 | 0.281 x 0.937 [7.14 x 23.8] | 38.30                           | 0.028                               |
| 6.8                                                                       | 600D685F200DD4 | 0.375 x 0.937 [9.53 x 23.8] | 19.16                           | 0.046                               |
| 8.2                                                                       | 600D825F200DE4 | 0.375 x 1.126 [9.53 x 28.6] | 15.50                           | 0.055                               |
| 12                                                                        | 600D126F200DG4 | 0.375 x 1.378 [9.53 x 35.0] | 10.50                           | 0.073                               |
| 18                                                                        | 600D186F200DJ4 | 0.375 x 1.626 [9.53 x 41.3] | 6.78                            | 0.098                               |
| 27                                                                        | 600D276F200DL4 | 0.375 x 2.185 [9.53 x 55.5] | 4.790                           | 0.132                               |
| 33                                                                        | 600D336F200DX4 | 0.375 x 2.685 [9.53 x 68.2] | 3.830                           | 0.162                               |
| <b>250 WV<sub>DC</sub> AT +85 °C . . . 200 WV<sub>DC</sub> AT +125 °C</b> |                |                             |                                 |                                     |
| 2.2                                                                       | 600D225F250KD4 | 0.281 x 0.937 [7.14 x 23.8] | 57.50                           | 0.023                               |
| 5.6                                                                       | 600D565F250DD4 | 0.375 x 0.937 [9.53 x 23.8] | 23.10                           | 0.042                               |
| 6.8                                                                       | 600D685F250DE4 | 0.375 x 1.126 [9.53 x 28.6] | 19.16                           | 0.05                                |
| 10                                                                        | 600D106F250DG4 | 0.375 x 1.378 [9.53 x 35.0] | 12.70                           | 0.066                               |
| 15                                                                        | 600D156F250DJ4 | 0.375 x 1.626 [9.53 x 41.3] | 8.23                            | 0.088                               |
| 22                                                                        | 600D226F250DL4 | 0.375 x 2.185 [9.53 x 55.5] | 5.75                            | 0.121                               |
| 27                                                                        | 600D276F250DX4 | 0.375 x 2.685 [9.53 x 68.2] | 4.79                            | 0.146                               |

**ELECTRICAL DATA AND ORDERING INFORMATION** - original ratings <sup>(1)</sup>

| CAPACITANCE<br>( $\mu$ F)                                               | CASE CODE | PART NUMBER    |
|-------------------------------------------------------------------------|-----------|----------------|
| <b>7 WV<sub>DC</sub> AT +85 °C . . . 5 WV<sub>DC</sub> AT +125 °C</b>   |           |                |
| 220                                                                     | DD        | 600D227G007DD4 |
| 270                                                                     | DE        | 600D277G007DE4 |
| 390                                                                     | DG        | 600D397G007DG4 |
| 560                                                                     | DJ        | 600D567G007DJ4 |
| 820                                                                     | DL        | 600D827G007DL4 |
| 1000                                                                    | DX        | 600D108G007DX4 |
| <b>10 WV<sub>DC</sub> AT +85 °C . . . 7 WV<sub>DC</sub> AT +125 °C</b>  |           |                |
| 100                                                                     | KD        | 600D107G010KD4 |
| 180                                                                     | DD        | 600D187G010DD4 |
| 220                                                                     | DE        | 600D227G010DE4 |
| 330                                                                     | DG        | 600D337G010DG4 |
| 470                                                                     | DJ        | 600D477G010DJ4 |
| 680                                                                     | DL        | 600D687G010DL4 |
| 820                                                                     | DX        | 600D827G010DX4 |
| <b>15 WV<sub>DC</sub> AT +85 °C . . . 10 WV<sub>DC</sub> AT +125 °C</b> |           |                |
| 68                                                                      | KD        | 600D686G015KD4 |
| 82                                                                      | KD        | 600D826G015KD4 |
| 150                                                                     | DD        | 600D157G015DD4 |
| 180                                                                     | DE        | 600D187G015DE4 |
| 270                                                                     | DG        | 600D277G015DG4 |
| 390                                                                     | DJ        | 600D397G015DJ4 |
| 560                                                                     | DL        | 600D567G015DL4 |
| 680                                                                     | DX        | 600D687G015DX4 |
| <b>20 WV<sub>DC</sub> AT +85 °C . . . 15 WV<sub>DC</sub> AT +125 °C</b> |           |                |
| 68                                                                      | KD        | 600D686G020KD4 |
| 100                                                                     | DD        | 600D107G020DD4 |
| 220                                                                     | DG        | 600D227G020DG4 |
| <b>30 WV<sub>DC</sub> AT +85 °C . . . 20 WV<sub>DC</sub> AT +125 °C</b> |           |                |
| 33                                                                      | KD        | 600D336G030KD4 |
| 47                                                                      | KD        | 600D476G030KD4 |
| 82                                                                      | DD        | 600D826G030DD4 |
| 100                                                                     | DE        | 600D107G030DE4 |
| 120                                                                     | DG        | 600D127G030DG4 |
| 150                                                                     | DG        | 600D157G030DG4 |
| 220                                                                     | DJ        | 600D227G030DJ4 |
| 330                                                                     | DL        | 600D337G030DL4 |
| 390                                                                     | DX        | 600D397G030DX4 |
| <b>40 WV<sub>DC</sub> AT +85 °C . . . 30 WV<sub>DC</sub> AT +125 °C</b> |           |                |
| 50                                                                      | DD        | 600D506G040DD4 |
| 70                                                                      | DE        | 600D706G040DE4 |
| 100                                                                     | DG        | 600D107G040DG4 |
| 140                                                                     | DJ        | 600D147G040DJ4 |
| 210                                                                     | DL        | 600D217G040DL4 |
| <b>50 WV<sub>DC</sub> AT +85 °C . . . 40 WV<sub>DC</sub> AT +125 °C</b> |           |                |
| 22                                                                      | KD        | 600D226G050KD4 |
| 33                                                                      | DD        | 600D336G050DD4 |
| 47                                                                      | DE        | 600D476G050DE4 |
| 56                                                                      | DG        | 600D566G050DG4 |
| 68                                                                      | DG        | 600D686G050DG4 |
| 100                                                                     | DJ        | 600D107G050DJ4 |
| 150                                                                     | DL        | 600D157G050DL4 |

**Note**

<sup>(1)</sup> Type 600D original ratings are recommended for replacement applications only.



| ELECTRICAL DATA AND ORDERING INFORMATION - original ratings <sup>(1)</sup> |           |                |
|----------------------------------------------------------------------------|-----------|----------------|
| CAPACITANCE<br>( $\mu$ F)                                                  | CASE CODE | PART NUMBER    |
| <b>60 WV<sub>DC</sub> AT +85 °C . . . 50 WV<sub>DC</sub> AT +125 °C</b>    |           |                |
| 17                                                                         | KD        | 600D176G060KD4 |
| 80                                                                         | DJ        | 600D806G060DJ4 |
| <b>75 WV<sub>DC</sub> AT +85 °C . . . 60 WV<sub>DC</sub> AT +125 °C</b>    |           |                |
| 12                                                                         | KD        | 600D126F075KD4 |
| 22                                                                         | DD        | 600D226F075DD4 |
| 33                                                                         | DE        | 600D336F075DE4 |
| 47                                                                         | DG        | 600D476F075DG4 |
| 68                                                                         | DJ        | 600D686F075DJ4 |
| 100                                                                        | DL        | 600D107F075DL4 |
| 120                                                                        | DX        | 600D127F075DX4 |
| <b>100 WV<sub>DC</sub> AT +85 °C . . . 75 WV<sub>DC</sub> AT +125 °C</b>   |           |                |
| 8.2                                                                        | KD        | 600D825F100KD4 |
| 12                                                                         | DD        | 600D126F100DD4 |
| 15                                                                         | DE        | 600D156F100DE4 |
| 22                                                                         | DG        | 600D226F100DG4 |
| 33                                                                         | DJ        | 600D336F100DJ4 |
| 47                                                                         | DL        | 600D476F100DL4 |
| 68                                                                         | DX        | 600D686F100DX4 |
| <b>150 WV<sub>DC</sub> AT +85 °C . . . 100 WV<sub>DC</sub> AT +125 °C</b>  |           |                |
| 4.7                                                                        | KD        | 600D475F150KD4 |
| 5.6                                                                        | KD        | 600D565F150KD4 |
| 8.2                                                                        | DD        | 600D825F150DD4 |
| 12                                                                         | DE        | 600D126F150DE4 |
| 18                                                                         | DG        | 600D186F150DG4 |
| 22                                                                         | DJ        | 600D226F150DJ4 |
| 33                                                                         | DL        | 600D336F150DL4 |
| 56                                                                         | DX        | 600D566F150DX4 |
| <b>200 WV<sub>DC</sub> AT +85 °C . . . 150 WV<sub>DC</sub> AT +125 °C</b>  |           |                |
| 3.3                                                                        | KD        | -              |
| 3.9                                                                        | KD        | -              |
| 5.6                                                                        | DD        | -              |
| 8                                                                          | DE        | 600D805F200DE4 |
| 8.2                                                                        | DE        | -              |
| 12                                                                         | DG        | -              |
| 15                                                                         | DJ        | -              |
| 27                                                                         | DL        | -              |
| 39                                                                         | DX        | 600D396F200DX4 |
| <b>250 WV<sub>DC</sub> AT +85 °C . . . 200 WV<sub>DC</sub> AT +125 °C</b>  |           |                |
| 2.2                                                                        | KD        | -              |
| 3.3                                                                        | KD        | 600D335F250KD4 |
| 5.6                                                                        | DD        | 600D565F250DD4 |
| 6.8                                                                        | DE        | 600D685F250DE4 |
| 10                                                                         | DG        | 600D106F250DG4 |
| 12                                                                         | DJ        | 600D126F250DJ4 |
| 22                                                                         | DL        | 600D226F250DL4 |
| 27                                                                         | DX        | 600D276F250DX4 |

**Note**

<sup>(1)</sup> Type 600D original ratings are recommended for replacement applications only.

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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