

## 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 initial measurement.<br>ΔESR ≤ 1.3 x initial specified limit.<br>ΔDCL ≤ initial specified limit.   |
| Shelf life at 125 °C                        | 500 h: ΔCAP ≤ 10 % from initial measurement.<br>ΔESR ≤ 1.5 x initial specified limit.<br>ΔDCL ≤ 2 x the initial 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 |
| <b>5 WV<sub>DC</sub> AT +85 °C . . . 3 WV<sub>DC</sub> AT +125 °C</b>   |                |                             |                                 |                                     |
| 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                               |
| <b>7 WV<sub>DC</sub> AT +85 °C . . . 5 WV<sub>DC</sub> AT +125 °C</b>   |                |                             |                                 |                                     |
| 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                               |
| <b>10 WV<sub>DC</sub> AT +85 °C . . . 7 WV<sub>DC</sub> AT +125 °C</b>  |                |                             |                                 |                                     |
| 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                               |
| <b>15 WV<sub>DC</sub> AT +85 °C . . . 10 WV<sub>DC</sub> AT +125 °C</b> |                |                             |                                 |                                     |
| 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                               |



| <b>ELECTRICAL DATA AND ORDERING INFORMATION</b>                         |                    |                                    |  |  |
|---|--------------------|------------------------------------|--|--|
| <b>CAPACITANCE<br/>(<math>\mu</math>F)</b>                              | <b>PART NUMBER</b> | <b>NOMINAL CASE SIZE<br/>D x L</b> | <b>MAX. ESR<br/>AT +25 °C<br/>120 Hz</b> | <b>MAX. RIPPLE<br/>AT +125 °C<br/>120 Hz</b> |
| <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  |



| <b>ELECTRICAL DATA AND ORDERING INFORMATION</b>                           |                    |                                    |  |  |
|---|--------------------|------------------------------------|--|--|
| <b>CAPACITANCE<br/>(<math>\mu</math>F)</b>                                | <b>PART NUMBER</b> | <b>NOMINAL CASE SIZE<br/>D x L</b> | <b>MAX. ESR<br/>AT +25 °C<br/>120 Hz</b> | <b>MAX. RIPPLE<br/>AT +125 °C<br/>120 Hz</b> |
| <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  |



| <b>ELECTRICAL DATA AND ORDERING INFORMATION - original ratings <sup>(1)</sup></b> |                  |                    |
|---|------------------|--------------------|
| <b>CAPACITANCE<br/>(<math>\mu</math>F)</b>  | <b>CASE CODE</b> | <b>PART NUMBER</b> |
| <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.



| <b>ELECTRICAL DATA AND ORDERING INFORMATION - original ratings <sup>(1)</sup></b> |                  |                    |
|---|------------------|--------------------|
| <b>CAPACITANCE (µF)</b>   | <b>CASE CODE</b> | <b>PART NUMBER</b> |
| <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**

(1) 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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