

## Aluminum Capacitors Miniature, Axial Lead, High Reliability



Fig.1 Component outline

### FEATURES

- Wide temperature range
- Foil tantalum replacement
- Unique Teflon end seal for long life
- High vibration capability
- Life test 2000 h at + 125 °C



| QUICK REFERENCE DATA                    |                                                                                                                                                                               |
|-----------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| DESCRIPTION                             | VALUE                                                                                                                                                                         |
| Nominal case size<br>Ø D x L in 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: Δ CAP ≤ 15 % from initial measurement.<br>Δ ESR ≤ 1.3 x initial specified limit.<br>Δ DCL ≤ initial specified limit.                                                  |
| Shelf life at 125 °C                    | 500 h: Δ CAP ≤ 10 % from initial measurement.<br>Δ ESR ≤ 1.5 x initial specified limit.<br>Δ DCL ≤ 2 x the initial specified limit.                                           |
| DC leakage current                      | 0 WV <sub>DC</sub> to 75 WV <sub>DC</sub><br>$I = 0.15 \sqrt{CV}$<br>I in µA, C in µF, V in Volts<br>100 WV <sub>DC</sub> to 250 WV <sub>DC</sub><br>$I = 0.15 \sqrt{CV} + 5$ |

| 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] |

**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                                |



Aluminum Capacitors  
Miniature, Axial Lead, High Reliability

**600D**  
Vishay Sprague

**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                                                                       | 600D226F020DE4 | 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                                |



Aluminum Capacitors  
Miniature, Axial Lead, High Reliability

**600D**  
Vishay Sprague

**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.



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