

## 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 |
| <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                                |



Aluminum Capacitors  
Miniature, Axial Lead, High Reliability

Vishay Sprague

| <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   | 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

Vishay Sprague

| <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<br/>(<math>\mu</math>F)</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**

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



## Disclaimer

ALL PRODUCT, PRODUCT SPECIFICATIONS AND DATA ARE SUBJECT TO CHANGE WITHOUT NOTICE TO IMPROVE RELIABILITY, FUNCTION OR DESIGN OR OTHERWISE.

Vishay Intertechnology, Inc., its affiliates, agents, and employees, and all persons acting on its or their behalf (collectively, "Vishay"), disclaim any and all liability for any errors, inaccuracies or incompleteness contained in any datasheet or in any other disclosure relating to any product.

Vishay makes no warranty, representation or guarantee regarding the suitability of the products for any particular purpose or the continuing production of any product. To the maximum extent permitted by applicable law, Vishay disclaims (i) any and all liability arising out of the application or use of any product, (ii) any and all liability, including without limitation special, consequential or incidental damages, and (iii) any and all implied warranties, including warranties of fitness for particular purpose, non-infringement and merchantability.

Statements regarding the suitability of products for certain types of applications are based on Vishay's knowledge of typical requirements that are often placed on Vishay products in generic applications. Such statements are not binding statements about the suitability of products for a particular application. It is the customer's responsibility to validate that a particular product with the properties described in the product specification is suitable for use in a particular application. Parameters provided in datasheets and/or specifications may vary in different applications and performance may vary over time. All operating parameters, including typical parameters, must be validated for each customer application by the customer's technical experts. Product specifications do not expand or otherwise modify Vishay's terms and conditions of purchase, including but not limited to the warranty expressed therein.

Except as expressly indicated in writing, Vishay products are not designed for use in medical, life-saving, or life-sustaining applications or for any other application in which the failure of the Vishay product could result in personal injury or death. Customers using or selling Vishay products not expressly indicated for use in such applications do so at their own risk and agree to fully indemnify and hold Vishay and its distributors harmless from and against any and all claims, liabilities, expenses and damages arising or resulting in connection with such use or sale, including attorneys fees, even if such claim alleges that Vishay or its distributor was negligent regarding the design or manufacture of the part. Please contact authorized Vishay personnel to obtain written terms and conditions regarding products designed for such applications.

No license, express or implied, by estoppel or otherwise, to any intellectual property rights is granted by this document or by any conduct of Vishay. Product names and markings noted herein may be trademarks of their respective owners.



Компания «ЭлектроПласт» предлагает заключение долгосрочных отношений при поставках импортных электронных компонентов на взаимовыгодных условиях!

Наши преимущества:

- Оперативные поставки широкого спектра электронных компонентов отечественного и импортного производства напрямую от производителей и с крупнейших мировых складов;
- Поставка более 17-ти миллионов наименований электронных компонентов;
- Поставка сложных, дефицитных, либо снятых с производства позиций;
- Оперативные сроки поставки под заказ (от 5 рабочих дней);
- Экспресс доставка в любую точку России;
- Техническая поддержка проекта, помощь в подборе аналогов, поставка прототипов;
- Система менеджмента качества сертифицирована по Международному стандарту ISO 9001;
- Лицензия ФСБ на осуществление работ с использованием сведений, составляющих государственную тайну;
- Поставка специализированных компонентов (Xilinx, Altera, Analog Devices, Intersil, Interpoint, Microsemi, Aeroflex, Peregrine, Syfer, Eurofarad, Texas Instrument, Miteq, Cobham, E2V, MA-COM, Hittite, Mini-Circuits, General Dynamics и др.);

Помимо этого, одним из направлений компании «ЭлектроПласт» является направление «Источники питания». Мы предлагаем Вам помощь Конструкторского отдела:

- Подбор оптимального решения, техническое обоснование при выборе компонента;
- Подбор аналогов;
- Консультации по применению компонента;
- Поставка образцов и прототипов;
- Техническая поддержка проекта;
- Защита от снятия компонента с производства.



#### Как с нами связаться

**Телефон:** 8 (812) 309 58 32 (многоканальный)

**Факс:** 8 (812) 320-02-42

**Электронная почта:** [org@eplast1.ru](mailto:org@eplast1.ru)

**Адрес:** 198099, г. Санкт-Петербург, ул. Калинина, дом 2, корпус 4, литера А.