

## Aluminum Capacitors + 105 °C, Tubular, Axial Lead


**FEATURES**

- Temperature range - 55 °C to + 105 °C
- Long life
- Low ESR
- 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 mm       | 0.625" x 1.125" [15.875 x 28.575]<br>to 1.0" x 3.625" [25.4 x 92.075]                                                    |
| Operating temperature                    | - 55 °C to + 105 °C                                                                                                      |
| Rated capacitance range, C <sub>R</sub>  | 12 µF to 33 000 µF                                                                                                       |
| Tolerance on C <sub>R</sub>              | - 10 %, + 50 %                                                                                                           |
| Rated voltage range, U <sub>R</sub>      | 6.3 WV <sub>DC</sub> to 300 WV <sub>DC</sub>                                                                             |
| Termination                              | Axial leads                                                                                                              |
| Life validation test<br>2000 h at 105 °C | ΔCAP ≤ 15 % from initial measurement.<br>ΔESR ≤ 1.25 x initial specified limit.<br>ΔDCL ≤ initial specified limit.       |
| Shelf life<br>500 h at 105 °C            | ΔCAP ≤ 10 % from initial measurement.<br>ΔESR ≤ 1.15 x initial specified limit.<br>ΔDCL ≤ 2.0 x initial specified limit. |
| DC leakage current                       | $I = K\sqrt{CV}$<br>K = 0.5 at + 25 °C<br>K = 3.0 at + 105 °C<br>I in µA, C in µF, V in Volts                            |

| RIPPLE CURRENT MULTIPLIERS |          |             |             |
|----------------------------|----------|-------------|-------------|
| TEMPERATURE                |          |             |             |
| AMBIENT TEMPERATURE        |          | MULTIPLIERS |             |
| + 105 °C                   |          | 0.4         |             |
| + 65 °C                    |          | 1.7         |             |
| + 45 °C                    |          | 2.0         |             |
| + 25 °C                    |          | 2.6         |             |
| FREQUENCY (Hz)             |          |             |             |
| WV <sub>DC</sub>           | 50 TO 60 | 300 TO 400  | 1000 AND UP |
| 0 to 60                    | 0.85     | 1.10        | 1.15        |
| 61 to 250                  | 0.83     | 1.15        | 1.20        |

| LOW TEMPERATURE PERFORMANCE                                                  |                       |
|------------------------------------------------------------------------------|-----------------------|
| CAPACITANCE RATIO C <sup>-55 °C</sup> /C <sup>+25 °C</sup> MINIMUM AT 120 Hz |                       |
| RATED VOLTAGE WV <sub>DC</sub>                                               | CAPACITANCE REMAINING |
| 0 to 25                                                                      | 75 %                  |
| 26 to 100                                                                    | 80 %                  |
| 101 to 250                                                                   | 85 %                  |
| ESR RATIO ESR <sup>-55 °C</sup> /ESR <sup>+25 °C</sup> MAXIMUM AT 120 Hz     |                       |
| RATED VOLTAGE WV <sub>DC</sub>                                               | MULTIPLIER            |
| 0 to 9                                                                       | 10                    |
| 10 to 40                                                                     | 12                    |
| 41 to 250                                                                    | 18                    |

| DIMENSIONS in inches [millimeters] |                                 |                                |                                                  |                                |                      |
|------------------------------------|---------------------------------|--------------------------------|--------------------------------------------------|--------------------------------|----------------------|
| CASE CODE                          | STYLE 1 AND 2 INSULATING SLEEVE |                                | STYLE 3 AND 7 INSULATING SLEEVE, COATED END SEAL |                                | TYPICAL WEIGHT       |
|                                    | D                               | L                              | D                                                | L                              |                      |
| FE                                 | 0.635 ± 0.020<br>[16.1 ± 0.51]  | 1.141 ± 0.062<br>[29.0 ± 1.57] | 0.635 ± 0.020<br>[16.1 ± 0.51]                   | 1.187 ± 0.062<br>[30.2 ± 1.57] | 0.32 oz.<br>(9.0 g)  |
| FJ                                 | 0.635 ± 0.020<br>[16.1 ± 0.51]  | 1.641 ± 0.062<br>[41.7 ± 1.57] | 0.635 ± 0.020<br>[16.1 ± 0.51]                   | 1.687 ± 0.062<br>[42.9 ± 1.57] | 0.39 oz.<br>(11.0 g) |
| FL                                 | 0.635 ± 0.020<br>[16.1 ± 0.51]  | 2.141 ± 0.062<br>[54.4 ± 1.57] | 0.635 ± 0.020<br>[16.1 ± 0.51]                   | 2.187 ± 0.062<br>[55.6 ± 1.57] | 0.53 oz.<br>(15.0 g) |
| FP                                 | 0.635 ± 0.020<br>[16.1 ± 0.51]  | 2.641 ± 0.062<br>[67.1 ± 1.57] | 0.635 ± 0.020<br>[16.1 ± 0.51]                   | 2.687 ± 0.062<br>[68.3 ± 1.57] | 0.63 oz.<br>(18.0 g) |
| FS                                 | 0.635 ± 0.020<br>[16.1 ± 0.51]  | 3.141 ± 0.062<br>[79.8 ± 1.57] | 0.635 ± 0.020<br>[16.1 ± 0.51]                   | 3.187 ± 0.062<br>[81.0 ± 1.57] | 0.88 oz.<br>(25.0 g) |
| FT                                 | 0.635 ± 0.020<br>[16.1 ± 0.51]  | 3.641 ± 0.062<br>[92.5 ± 1.57] | 0.635 ± 0.020<br>[16.1 ± 0.51]                   | 3.687 ± 0.062<br>[93.7 ± 1.57] | 0.98 oz.<br>(28.0 g) |
| GE                                 | 0.760 ± 0.020<br>[19.3 ± 0.51]  | 1.141 ± 0.062<br>[29.0 ± 1.57] | 0.760 ± 0.020<br>[19.3 ± 0.51]                   | 1.187 ± 0.062<br>[30.2 ± 1.57] | 0.46 oz.<br>(13.0 g) |
| GJ                                 | 0.760 ± 0.020<br>[19.3 ± 0.51]  | 1.641 ± 0.062<br>[41.7 ± 1.57] | 0.760 ± 0.020<br>[19.3 ± 0.51]                   | 1.687 ± 0.062<br>[42.9 ± 1.57] | 0.67 oz.<br>(19.0 g) |

| <b>DIMENSIONS</b> in inches [millimeters] |                                    |                                |                                                     |                                |                      |
|-------------------------------------------|------------------------------------|--------------------------------|-----------------------------------------------------|--------------------------------|----------------------|
| CASE CODE                                 | STYLE 1 AND 2<br>INSULATING SLEEVE |                                | STYLE 3 AND 7<br>INSULATING SLEEVE, COATED END SEAL |                                | TYPICAL WEIGHT       |
|                                           | D                                  | L                              | D                                                   | L                              |                      |
| GL                                        | 0.760 ± 0.020<br>[19.3 ± 0.51]     | 2.141 ± 0.062<br>[54.4 ± 1.57] | 0.760 ± 0.020<br>[19.3 ± 0.51]                      | 2.187 ± 0.062<br>[55.6 ± 1.57] | 0.74 oz.<br>(21.0 g) |
| GP                                        | 0.760 ± 0.020<br>[19.3 ± 0.51]     | 2.641 ± 0.062<br>[67.1 ± 1.57] | 0.760 ± 0.020<br>[19.3 ± 0.51]                      | 2.687 ± 0.062<br>[68.3 ± 1.57] | 0.88 oz.<br>(25.0 g) |
| GS                                        | 0.760 ± 0.020<br>[19.3 ± 0.51]     | 3.141 ± 0.062<br>[79.8 ± 1.57] | 0.760 ± 0.020<br>[19.3 ± 0.51]                      | 3.187 ± 0.062<br>[81.0 ± 1.57] | 1.16 oz.<br>(33.0 g) |
| GT                                        | 0.760 ± 0.020<br>[19.3 ± 0.51]     | 3.641 ± 0.062<br>[92.5 ± 1.57] | 0.760 ± 0.020<br>[19.3 ± 0.51]                      | 3.687 ± 0.062<br>[93.7 ± 1.57] | 1.33 oz.<br>(38.0 g) |
| HE                                        | 0.885 ± 0.020<br>[22.5 ± 0.51]     | 1.141 ± 0.062<br>[29.0 ± 1.57] | 0.885 ± 0.020<br>[22.5 ± 0.51]                      | 1.187 ± 0.062<br>[30.2 ± 1.57] | 0.63 oz.<br>(18.0 g) |
| HJ                                        | 0.885 ± 0.020<br>[22.5 ± 0.51]     | 1.641 ± 0.062<br>[41.7 ± 1.57] | 0.885 ± 0.020<br>[22.5 ± 0.51]                      | 1.687 ± 0.062<br>[42.9 ± 1.57] | 0.95 oz.<br>(27.0 g) |
| HL                                        | 0.885 ± 0.020<br>[22.5 ± 0.51]     | 2.141 ± 0.062<br>[54.4 ± 1.57] | 0.885 ± 0.020<br>[22.5 ± 0.51]                      | 2.187 ± 0.062<br>[55.6 ± 1.57] | 1.02 oz.<br>(29.0 g) |
| HP                                        | 0.885 ± 0.020<br>[22.5 ± 0.51]     | 2.641 ± 0.062<br>[67.1 ± 1.57] | 0.885 ± 0.020<br>[22.5 ± 0.51]                      | 2.687 ± 0.062<br>[68.3 ± 1.57] | 1.37 oz.<br>(39.0 g) |
| HS                                        | 0.885 ± 0.020<br>[22.5 ± 0.51]     | 3.141 ± 0.062<br>[79.8 ± 1.57] | 0.885 ± 0.020<br>[22.5 ± 0.51]                      | 3.187 ± 0.062<br>[81.0 ± 1.57] | 1.72 oz.<br>(49.0 g) |
| HT                                        | 0.885 ± 0.020<br>[22.5 ± 0.51]     | 3.641 ± 0.062<br>[92.5 ± 1.57] | 0.885 ± 0.020<br>[22.5 ± 0.51]                      | 3.687 ± 0.062<br>[93.7 ± 1.57] | 2.07 oz.<br>(59.0 g) |
| JE                                        | 1.010 ± 0.020<br>[25.7 ± 0.51]     | 1.141 ± 0.062<br>[29.0 ± 1.57] | 1.010 ± 0.020<br>[25.7 ± 0.51]                      | 1.187 ± 0.062<br>[30.2 ± 1.57] | 0.81 oz.<br>(23.0 g) |
| JJ                                        | 1.010 ± 0.020<br>[25.7 ± 0.51]     | 1.641 ± 0.062<br>[41.7 ± 1.57] | 1.010 ± 0.020<br>[25.7 ± 0.51]                      | 1.687 ± 0.062<br>[42.9 ± 1.57] | 1.02 oz.<br>(29.0 g) |
| JL                                        | 1.010 ± 0.020<br>[25.7 ± 0.51]     | 2.141 ± 0.062<br>[54.4 ± 1.57] | 1.010 ± 0.020<br>[25.7 ± 0.51]                      | 2.187 ± 0.062<br>[55.5 ± 1.57] | 1.54 oz.<br>(44.0 g) |
| JP                                        | 1.010 ± 0.020<br>[25.7 ± 0.51]     | 2.641 ± 0.062<br>[67.1 ± 1.57] | 1.010 ± 0.020<br>[25.7 ± 0.51]                      | 2.687 ± 0.062<br>[68.3 ± 1.57] | 1.86 oz.<br>(53.0 g) |
| JS                                        | 1.010 ± 0.020<br>[25.7 ± 0.51]     | 3.141 ± 0.062<br>[79.8 ± 1.57] | 1.010 ± 0.020<br>[25.7 ± 0.51]                      | 3.187 ± 0.062<br>[81.0 ± 1.57] | 2.21 oz.<br>(63.0 g) |
| JT                                        | 1.010 ± 0.020<br>[25.7 ± 0.51]     | 3.641 ± 0.062<br>[92.5 ± 1.57] | 1.010 ± 0.020<br>[25.7 ± 0.51]                      | 3.687 ± 0.062<br>[93.7 ± 1.57] | 2.52 oz.<br>(72.0 g) |



| <b>PART NUMBER INFORMATION</b> |                                                                                                  |                            |                                                                                  |                      |                                                                                                                                                                                                                                                   |
|--------------------------------|--------------------------------------------------------------------------------------------------|----------------------------|----------------------------------------------------------------------------------|----------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 601D<br>TYPE                   | 158<br>CAPACITANCE                                                                               | F<br>CAPACITANCE TOLERANCE | 6R3<br>DC VOLTAGE RATING                                                         | FE<br>CASE CODE      | 1<br>CASE STYLE                                                                                                                                                                                                                                   |
| Identifies the series name.    | Expressed in pF. The first two digits are significant figures. The third is the number of zeros. | F = - 10 %/+ 50 % (std.)   | Expressed in volts. The letter "R" signifies a decimal point (i.e. 6R3 = 6.3 V). | See table Dimensions | 1 = PVC sleeve (std.)<br>2 = Polyester sleeve<br>3 = Polyester sleeve with epoxy end seal (required for exposure to halogenated cleaning solvents)<br>7 = PVC sleeve with epoxy end seal (required for exposure to halogenated cleaning solvents) |



ORDERING EXAMPLE (1)

Electrolytic capacitor 601D series: 601D158F050GL1

Note

(1) For lead (Pb)-free/RoHS compliant products add suffix "E3" to part number. Example: 601D158F050GLE3

| ELECTRICAL DATA AND ORDERING INFORMATION           |                |                              |                      |                              |                                         |
|----------------------------------------------------|----------------|------------------------------|----------------------|------------------------------|-----------------------------------------|
| CAPACITANCE (µF)                                   | PART NUMBER    | NOMINAL CASE SIZE D x L (in) | LEAD DIAMETER W (in) | MAX. ESR AT 120 Hz/25 °C (Ω) | MAX. RIPPLE CURRENT AT 120 Hz/85 °C (A) |
| <b>6.3 WV<sub>DC</sub> AT + 85 °C, SURGE = 8 V</b> |                |                              |                      |                              |                                         |
| 1500                                               | 601D158F6R3FE1 | 0.625 x 1.125                | No. 20 AWG (0.032)   | 0.311                        | 1.04                                    |
| 2700                                               | 601D278F6R3FJ1 | 0.625 x 1.625                |                      | 0.148                        | 1.76                                    |
| 3900                                               | 601D398F6R3FL1 | 0.625 x 2.125                |                      | 0.098                        | 2.41                                    |
| 5600                                               | 601D568F6R3FP1 | 0.625 x 2.625                |                      | 0.074                        | 3.05                                    |
| 6800                                               | 601D688F6R3FS1 | 0.625 x 3.125                |                      | 0.060                        | 3.66                                    |
| 8200                                               | 601D828F6R3FT1 | 0.625 x 3.625                |                      | 0.051                        | 4.26                                    |
| 2700                                               | 601D278F6R3GE1 | 0.750 x 1.125                | No. 18 AWG (0.040)   | 0.169                        | 1.58                                    |
| 5600                                               | 601D568F6R3GJ1 | 0.750 x 1.625                |                      | 0.083                        | 2.60                                    |
| 8200                                               | 601D828F6R3GL1 | 0.750 x 2.125                |                      | 0.057                        | 3.52                                    |
| 10 000                                             | 601D109F6R3GP1 | 0.750 x 2.625                |                      | 0.043                        | 4.40                                    |
| 12 000                                             | 601D129F6R3GS1 | 0.750 x 3.125                |                      | 0.037                        | 5.13                                    |
| 15 000                                             | 601D159F6R3GT1 | 0.750 x 3.625                |                      | 0.031                        | 5.98                                    |
| 3900                                               | 601D398F6R3HE1 | 0.875 x 1.125                |                      | 0.118                        | 2.09                                    |
| 8200                                               | 601D828F6R3HJ1 | 0.875 x 1.625                |                      | 0.059                        | 3.38                                    |
| 12 000                                             | 601D129F6R3HL1 | 0.875 x 2.125                |                      | 0.042                        | 4.47                                    |
| 15 000                                             | 601D159F6R3HP1 | 0.875 x 2.625                |                      | 0.033                        | 5.54                                    |
| 18 000                                             | 601D189F6R3HS1 | 0.875 x 3.125                |                      | 0.027                        | 6.56                                    |
| 22 000                                             | 601D229F6R3HT1 | 0.875 x 3.625                |                      | 0.023                        | 7.52                                    |
| 5600                                               | 601D568F6R3JE1 | 1.000 x 1.125                |                      | 0.093                        | 2.57                                    |
| 10 000                                             | 601D109F6R3JJ1 | 1.000 x 1.625                |                      | 0.049                        | 4.05                                    |
| 18 000                                             | 601D189F6R3JL1 | 1.000 x 2.125                |                      | 0.033                        | 5.44                                    |
| 22 000                                             | 601D229F6R3JP1 | 1.000 x 2.625                | 0.026                | 6.72                         |                                         |
| 27 000                                             | 601D279F6R3JS1 | 1.000 x 3.125                | 0.022                | 7.86                         |                                         |
| 33 000                                             | 601D339F6R3JT1 | 1.000 x 3.625                | 0.019                | 8.98                         |                                         |
| <b>10 WV<sub>DC</sub> AT + 85 °C, SURGE = 15 V</b> |                |                              |                      |                              |                                         |
| 1000                                               | 601D108F010FE1 | 0.625 x 1.125                | No. 20 AWG (0.032)   | 0.332                        | 1.00                                    |
| 2200                                               | 601D228F010FJ1 | 0.625 x 1.625                |                      | 0.157                        | 1.70                                    |
| 3300                                               | 601D338F010FL1 | 0.625 x 2.125                |                      | 0.106                        | 2.31                                    |
| 4700                                               | 601D478F010FP1 | 0.625 x 2.625                |                      | 0.080                        | 2.94                                    |
| 5600                                               | 601D568F010FS1 | 0.625 x 3.125                |                      | 0.065                        | 3.52                                    |
| 6800                                               | 601D686F010FT1 | 0.625 x 3.625                |                      | 0.055                        | 4.11                                    |
| 2200                                               | 601D228F010GE1 | 0.750 x 1.125                | No. 18 AWG (0.040)   | 0.182                        | 1.53                                    |
| 3900                                               | 601D398F010GJ1 | 0.750 x 1.625                |                      | 0.091                        | 2.50                                    |
| 6800                                               | 601D688F010GL1 | 0.750 x 2.125                |                      | 0.061                        | 3.40                                    |
| 8200                                               | 601D828F010GP1 | 0.750 x 2.625                |                      | 0.047                        | 4.25                                    |
| 10 000                                             | 601D109F010GS1 | 0.750 x 3.125                |                      | 0.041                        | 5.00                                    |
| 12 000                                             | 601D129F010GT1 | 0.750 x 3.625                |                      | 0.035                        | 5.72                                    |
| 3300                                               | 601D338F010HE1 | 0.875 x 1.125                |                      | 0.127                        | 2.02                                    |
| 5600                                               | 601D568F010HJ1 | 0.875 x 1.625                |                      | 0.064                        | 3.26                                    |
| 8200                                               | 601D828F010HL1 | 0.875 x 2.125                |                      | 0.044                        | 4.38                                    |
| 12 000                                             | 601D129F010HP1 | 0.875 x 2.625                |                      | 0.036                        | 5.30                                    |
| 15 000                                             | 601D159F010HS1 | 0.875 x 3.125                |                      | 0.029                        | 6.43                                    |
| 18 000                                             | 601D189F010HT1 | 0.875 x 3.625                |                      | 0.025                        | 7.37                                    |
| 3900                                               | 601D398F010JE1 | 1.000 x 1.125                |                      | 0.099                        | 2.49                                    |
| 8200                                               | 601D828F010JJ1 | 1.000 x 1.625                |                      | 0.050                        | 4.00                                    |
| 13 000                                             | 601D139F010JL1 | 1.000 x 2.125                |                      | 0.036                        | 5.27                                    |
| 18 000                                             | 601D189F010JP1 | 1.000 x 2.625                | 0.028                | 6.45                         |                                         |
| 22 000                                             | 601D229F010JS1 | 1.000 x 3.125                | 0.023                | 7.68                         |                                         |
| 27 000                                             | 601D279F010JT1 | 1.000 x 3.625                | 0.020                | 8.75                         |                                         |



| <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<br/>(in)</b> | <b>LEAD DIAMETER<br/>W<br/>(in)</b> | <b>MAX. ESR<br/>AT 120 Hz/25 °C<br/>(<math>\Omega</math>)</b> | <b>MAX. RIPPLE CURRENT<br/>AT 120 Hz/85 °C<br/>(A)</b> |
| <b>16 WV<sub>DC</sub> AT + 85 °C, SURGE = 20 V</b> |                    |                                             |                                     |                                                               |                                                        |
| 820                                                | 601D827F016FE1     | 0.625 x 1.125                               | No. 20 AWG (0.032)                  | 0.349                                                         | 0.99                                                   |
| 1800                                               | 601D188F016FJ1     | 0.625 x 1.625                               |                                     | 0.175                                                         | 1.62                                                   |
| 2700                                               | 601D278F016FL1     | 0.625 x 2.125                               |                                     | 0.115                                                         | 2.23                                                   |
| 3300                                               | 601D338F016FP1     | 0.625 x 2.625                               |                                     | 0.087                                                         | 2.83                                                   |
| 3900                                               | 601D398F016FS1     | 0.625 x 3.125                               |                                     | 0.071                                                         | 3.37                                                   |
| 4700                                               | 601D478F016FT1     | 0.625 x 3.625                               |                                     | 0.060                                                         | 3.94                                                   |
| 1500                                               | 601D158F016GE1     | 0.750 x 1.125                               | No. 18 AWG (0.040)                  | 0.198                                                         | 1.47                                                   |
| 3300                                               | 601D338F016GJ1     | 0.750 x 1.625                               |                                     | 0.098                                                         | 2.40                                                   |
| 4700                                               | 601D478F016GL1     | 0.750 x 2.125                               |                                     | 0.067                                                         | 3.26                                                   |
| 5600                                               | 601D568F016GP1     | 0.750 x 2.625                               |                                     | 0.051                                                         | 4.07                                                   |
| 8200                                               | 601D828F016GS1     | 0.750 x 3.125                               |                                     | 0.042                                                         | 4.87                                                   |
| 10 000                                             | 601D109F016GT1     | 0.750 x 3.625                               |                                     | 0.036                                                         | 5.64                                                   |
| 2200                                               | 601D228F016HE1     | 0.875 x 1.125                               |                                     | 0.139                                                         | 1.93                                                   |
| 4700                                               | 601D478F016HJ1     | 0.875 x 1.625                               |                                     | 0.070                                                         | 3.12                                                   |
| 6800                                               | 601D688F016HL1     | 0.875 x 2.125                               |                                     | 0.048                                                         | 4.20                                                   |
| 10 000                                             | 601D109F016HP1     | 0.875 x 2.625                               |                                     | 0.037                                                         | 5.23                                                   |
| 12 000                                             | 601D129F016HS1     | 0.875 x 3.125                               |                                     | 0.031                                                         | 6.19                                                   |
| 15 000                                             | 601D159F016HT1     | 0.875 x 3.625                               |                                     | 0.027                                                         | 7.06                                                   |
| 3300                                               | 601D338F016JE1     | 1.000 x 1.125                               |                                     | 0.108                                                         | 2.38                                                   |
| 6800                                               | 601D688F016JJ1     | 1.000 x 1.625                               |                                     | 0.055                                                         | 3.83                                                   |
| 10 000                                             | 601D109F016JL1     | 1.000 x 2.125                               | 0.038                               | 5.10                                                          |                                                        |
| <b>25 WV<sub>DC</sub> AT + 85 °C, SURGE = 40 V</b> |                    |                                             |                                     |                                                               |                                                        |
| 560                                                | 601D567F025FE1     | 0.625 x 1.125                               | No. 20 AWG (0.032)                  | 0.383                                                         | 0.94                                                   |
| 1000                                               | 601D108F025FJ1     | 0.625 x 1.625                               |                                     | 0.198                                                         | 1.52                                                   |
| 1500                                               | 601D158F025FL1     | 0.625 x 2.125                               |                                     | 0.125                                                         | 2.14                                                   |
| 2200                                               | 601D228F025FP1     | 0.625 x 2.625                               |                                     | 0.096                                                         | 2.68                                                   |
| 2700                                               | 601D278F025FS1     | 0.625 x 3.125                               |                                     | 0.078                                                         | 3.22                                                   |
| 3300                                               | 601D338F025FT1     | 0.625 x 3.625                               |                                     | 0.065                                                         | 3.79                                                   |
| 1000                                               | 601D108F025GE1     | 0.750 x 1.125                               | No. 18 AWG (0.040)                  | 0.213                                                         | 1.41                                                   |
| 1800                                               | 601D188F025GJ1     | 0.750 x 1.625                               |                                     | 0.110                                                         | 2.27                                                   |
| 2700                                               | 601D278F025GL1     | 0.750 x 2.125                               |                                     | 0.073                                                         | 3.11                                                   |
| 3900                                               | 601D398F025GP1     | 0.750 x 2.625                               |                                     | 0.056                                                         | 3.91                                                   |
| 4700                                               | 601D478F025GS1     | 0.750 x 3.125                               |                                     | 0.045                                                         | 4.68                                                   |
| 5600                                               | 601D568F025GT1     | 0.750 x 3.625                               |                                     | 0.038                                                         | 5.43                                                   |
| 1500                                               | 601D158F025HE1     | 0.875 x 1.125                               |                                     | 0.157                                                         | 1.81                                                   |
| 2700                                               | 601D278F025HJ1     | 0.875 x 1.625                               |                                     | 0.076                                                         | 2.98                                                   |
| 3900                                               | 601D398F025HL1     | 0.875 x 2.125                               |                                     | 0.052                                                         | 4.04                                                   |
| 5600                                               | 601D568F025HP1     | 0.875 x 2.625                               |                                     | 0.040                                                         | 5.04                                                   |
| 6800                                               | 601D688F025HS1     | 0.875 x 3.125                               |                                     | 0.033                                                         | 6.00                                                   |
| 8200                                               | 601D828F025HT1     | 0.875 x 3.625                               |                                     | 0.028                                                         | 6.91                                                   |
| 1800                                               | 601D188F025JE1     | 1.000 x 1.125                               |                                     | 0.117                                                         | 2.28                                                   |
| 3900                                               | 601D398F025JJ1     | 1.000 x 1.625                               |                                     | 0.059                                                         | 3.70                                                   |
| 5600                                               | 601D568F025JL1     | 1.000 x 2.125                               |                                     | 0.040                                                         | 4.96                                                   |
| 8200                                               | 601D828F025JP1     | 1.000 x 2.625                               |                                     | 0.031                                                         | 6.14                                                   |
| 10 000                                             | 601D109F025JS1     | 1.000 x 3.125                               | 0.027                               | 7.15                                                          |                                                        |
| 12 000                                             | 601D129F025JT1     | 1.000 x 3.625                               | 0.023                               | 8.21                                                          |                                                        |



| <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<br/>(in)</b> | <b>LEAD DIAMETER<br/>W<br/>(in)</b> | <b>MAX. ESR<br/>AT 120 Hz/25 °C<br/>(<math>\Omega</math>)</b> | <b>MAX. RIPPLE CURRENT<br/>AT 120 Hz/85 °C<br/>(A)</b> |
| <b>35 WV<sub>DC</sub> AT + 85 °C, SURGE = 50 V</b> |                    |                                             |                                     |                                                               |                                                        |
| 330                                                | 601D337F035FE1     | 0.625 x 1.125                               | No. 20 AWG (0.032)                  | 0.480                                                         | 0.84                                                   |
| 680                                                | 601D687F035FJ1     | 0.625 x 1.625                               |                                     | 0.231                                                         | 1.40                                                   |
| 1000                                               | 601D108F035FL1     | 0.625 x 2.125                               |                                     | 0.154                                                         | 1.93                                                   |
| 1500                                               | 601D158F035FP1     | 0.625 x 2.625                               |                                     | 0.118                                                         | 2.42                                                   |
| 1800                                               | 601D188F035FS1     | 0.625 x 3.125                               |                                     | 0.095                                                         | 2.91                                                   |
| 2200                                               | 601D228F035FT1     | 0.625 x 3.625                               |                                     | 0.080                                                         | 3.40                                                   |
| 680                                                | 601D687F035GE1     | 0.750 x 1.125                               | No. 18 AWG (0.040)                  | 0.266                                                         | 1.26                                                   |
| 1200                                               | 601D128F035GJ1     | 0.750 x 1.625                               |                                     | 0.133                                                         | 2.06                                                   |
| 2200                                               | 601D228F035GL1     | 0.750 x 2.125                               |                                     | 0.087                                                         | 2.84                                                   |
| 2700                                               | 601D278F035GP1     | 0.750 x 2.625                               |                                     | 0.068                                                         | 3.52                                                   |
| 3300                                               | 601D338F035GS1     | 0.750 x 3.125                               |                                     | 0.054                                                         | 4.25                                                   |
| 3900                                               | 601D398F035GT1     | 0.750 x 3.625                               |                                     | 0.046                                                         | 4.95                                                   |
| 1000                                               | 601D108F035HE1     | 0.875 x 1.125                               |                                     | 0.182                                                         | 1.68                                                   |
| 2200                                               | 601D228F035HJ1     | 0.875 x 1.625                               |                                     | 0.091                                                         | 2.73                                                   |
| 2700                                               | 601D278F035HL1     | 0.875 x 2.125                               |                                     | 0.062                                                         | 3.67                                                   |
| 3900                                               | 601D398F035HP1     | 0.875 x 2.625                               |                                     | 0.047                                                         | 4.61                                                   |
| 4700                                               | 601D478F035HS1     | 0.875 x 3.125                               |                                     | 0.039                                                         | 5.46                                                   |
| 5600                                               | 601D568F035HT1     | 0.875 x 3.625                               |                                     | 0.033                                                         | 6.33                                                   |
| 1200                                               | 601D128F035JE1     | 1.000 x 1.125                               |                                     | 0.146                                                         | 2.04                                                   |
| 2700                                               | 601D278F035JJ1     | 1.000 x 1.625                               |                                     | 0.071                                                         | 3.35                                                   |
| 3900                                               | 601D398F035JL1     | 1.000 x 2.125                               |                                     | 0.048                                                         | 4.52                                                   |
| 5600                                               | 601D568F035JP1     | 1.000 x 2.625                               |                                     | 0.037                                                         | 5.62                                                   |
| 6800                                               | 601D688F035JS1     | 1.000 x 3.125                               | 0.030                               | 6.66                                                          |                                                        |
| 8200                                               | 601D828F035JT1     | 1.000 x 3.625                               | 0.026                               | 7.66                                                          |                                                        |
| <b>50 WV<sub>DC</sub> AT + 85 °C, SURGE = 75 V</b> |                    |                                             |                                     |                                                               |                                                        |
| 270                                                | 601D277F050FE1     | 0.625 x 1.125                               | No. 20 AWG (0.032)                  | 0.519                                                         | 0.81                                                   |
| 470                                                | 601D477F050FJ1     | 0.625 x 1.625                               |                                     | 0.249                                                         | 1.35                                                   |
| 680                                                | 601D687F050FL1     | 0.625 x 2.125                               |                                     | 0.165                                                         | 1.87                                                   |
| 1000                                               | 601D108F050FP1     | 0.625 x 2.625                               |                                     | 0.128                                                         | 2.33                                                   |
| 1200                                               | 601D128F050FS1     | 0.625 x 3.125                               |                                     | 0.107                                                         | 2.76                                                   |
| 1500                                               | 601D158F050FT1     | 0.625 x 3.625                               |                                     | 0.087                                                         | 3.28                                                   |
| 470                                                | 601D477F050GE1     | 0.750 x 1.125                               | No. 18 AWG (0.040)                  | 0.285                                                         | 1.22                                                   |
| 1000                                               | 601D108F050GJ1     | 0.750 x 1.625                               |                                     | 0.139                                                         | 2.02                                                   |
| 1500                                               | 601D158F050GL1     | 0.750 x 2.125                               |                                     | 0.095                                                         | 2.73                                                   |
| 1800                                               | 601D188F050GP1     | 0.750 x 2.625                               |                                     | 0.071                                                         | 3.45                                                   |
| 2200                                               | 601D228F050GS1     | 0.750 x 3.125                               |                                     | 0.060                                                         | 4.08                                                   |
| 2700                                               | 601D278F050GT1     | 0.750 x 3.625                               |                                     | 0.050                                                         | 4.76                                                   |
| 680                                                | 601D687F050HE1     | 0.875 x 1.125                               |                                     | 0.196                                                         | 1.62                                                   |
| 1500                                               | 601D158F050HJ1     | 0.875 x 1.625                               |                                     | 0.099                                                         | 2.63                                                   |
| 2200                                               | 601D228F050HL1     | 0.875 x 2.125                               |                                     | 0.067                                                         | 3.55                                                   |
| 2700                                               | 601D278F050HP1     | 0.875 x 2.625                               |                                     | 0.051                                                         | 4.44                                                   |
| 3300                                               | 601D338F050HS1     | 0.875 x 3.125                               |                                     | 0.042                                                         | 5.28                                                   |
| 3900                                               | 601D398F050HT1     | 0.875 x 3.625                               |                                     | 0.036                                                         | 6.12                                                   |
| 1000                                               | 601D108F050JE1     | 1.000 x 1.125                               |                                     | 0.148                                                         | 2.03                                                   |
| 1800                                               | 601D188F050JJ1     | 1.000 x 1.625                               |                                     | 0.077                                                         | 3.23                                                   |
| 2700                                               | 601D278F050JL1     | 1.000 x 2.125                               |                                     | 0.052                                                         | 4.37                                                   |
| 3900                                               | 601D398F050JP1     | 1.000 x 2.625                               |                                     | 0.040                                                         | 5.44                                                   |
| 4700                                               | 601D478F050JS1     | 1.000 x 3.125                               | 0.033                               | 6.47                                                          |                                                        |
| 5600                                               | 601D568F050JT1     | 1.000 x 3.625                               | 0.028                               | 7.45                                                          |                                                        |



| <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<br/>(in)</b> | <b>LEAD DIAMETER<br/>W<br/>(in)</b> | <b>MAX. ESR<br/>AT 120 Hz/25 °C<br/>(<math>\Omega</math>)</b> | <b>MAX. RIPPLE CURRENT<br/>AT 120 Hz/85 °C<br/>(A)</b> |
| <b>63 WV<sub>DC</sub> AT + 85 °C, SURGE = 90 V</b>   |                    |                                             |                                     |                                                               |                                                        |
| 220                                                  | 601D227F063FE1     | 0.625 x 1.125                               | No. 20 AWG (0.032)                  | 0.563                                                         | 0.78                                                   |
| 470                                                  | 601D477F063FJ1     | 0.625 x 1.625                               |                                     | 0.269                                                         | 1.30                                                   |
| 680                                                  | 601D687F063FL1     | 0.625 x 2.125                               |                                     | 0.178                                                         | 1.80                                                   |
| 820                                                  | 601D827F063FP1     | 0.625 x 2.625                               |                                     | 0.134                                                         | 2.27                                                   |
| 1000                                                 | 601D108F063FS1     | 0.625 x 3.125                               |                                     | 0.111                                                         | 2.70                                                   |
| 1200                                                 | 601D128F063FT1     | 0.625 x 3.625                               |                                     | 0.095                                                         | 3.13                                                   |
| 390                                                  | 601D397F063GE1     | 0.750 x 1.125                               | No. 18 AWG (0.040)                  | 0.304                                                         | 1.18                                                   |
| 820                                                  | 601D827F063GJ1     | 0.750 x 1.625                               |                                     | 0.150                                                         | 1.94                                                   |
| 1200                                                 | 601D128F063GL1     | 0.750 x 2.125                               |                                     | 0.105                                                         | 2.59                                                   |
| 1500                                                 | 601D158F063GP1     | 0.750 x 2.625                               |                                     | 0.080                                                         | 3.26                                                   |
| 1800                                                 | 601D188F063GS1     | 0.750 x 3.125                               |                                     | 0.062                                                         | 3.99                                                   |
| 2200                                                 | 601D228F063GT1     | 0.750 x 3.625                               |                                     | 0.053                                                         | 4.62                                                   |
| 680                                                  | 601D687F063HE1     | 0.875 x 1.125                               |                                     | 0.210                                                         | 1.57                                                   |
| 1200                                                 | 601D128G063HJ1     | 0.875 x 1.625                               |                                     | 0.109                                                         | 2.50                                                   |
| 1800                                                 | 601D188F063HL1     | 0.875 x 2.125                               |                                     | 0.070                                                         | 3.47                                                   |
| 2200                                                 | 601D228F063HP1     | 0.875 x 2.625                               |                                     | 0.054                                                         | 4.31                                                   |
| 2700                                                 | 601D278F063HS1     | 0.875 x 3.125                               |                                     | 0.045                                                         | 5.12                                                   |
| 3900                                                 | 601D398F063HT1     | 0.875 x 3.625                               |                                     | 0.038                                                         | 5.98                                                   |
| 820                                                  | 601D827F063JE1     | 1.000 x 1.125                               |                                     | 0.158                                                         | 1.97                                                   |
| 1800                                                 | 601D188F063JJ1     | 1.000 x 1.625                               |                                     | 0.081                                                         | 3.14                                                   |
| 2700                                                 | 601D278F063JL1     | 1.000 x 2.125                               |                                     | 0.055                                                         | 4.25                                                   |
| 3300                                                 | 601D338F063JP1     | 1.000 x 2.625                               |                                     | 0.042                                                         | 5.31                                                   |
| 3900                                                 | 601D398F063JS1     | 1.000 x 3.125                               | 0.034                               | 6.31                                                          |                                                        |
| 4700                                                 | 601D478F063JT1     | 1.000 x 3.625                               | 0.029                               | 7.29                                                          |                                                        |
| <b>100 WV<sub>DC</sub> AT + 85 °C, SURGE = 150 V</b> |                    |                                             |                                     |                                                               |                                                        |
| 68                                                   | 601D686F100FE1     | 0.625 x 1.125                               | No. 20 AWG (0.032)                  | 1.714                                                         | 0.444                                                  |
| 120                                                  | 601D127F100FJ1     | 0.625 x 1.625                               |                                     | 0.869                                                         | 0.725                                                  |
| 180                                                  | 601D187F100FL1     | 0.625 x 2.125                               |                                     | 0.561                                                         | 1.010                                                  |
| 270                                                  | 601D277F100FP1     | 0.625 x 2.625                               |                                     | 0.415                                                         | 1.290                                                  |
| 330                                                  | 601D337F100FS1     | 0.625 x 3.125                               |                                     | 0.330                                                         | 1.570                                                  |
| 390                                                  | 601D397F100FT1     | 0.625 x 3.625                               |                                     | 0.274                                                         | 1.840                                                  |
| 120                                                  | 601D127F100GE1     | 0.750 x 1.125                               | No. 18 AWG (0.040)                  | 0.986                                                         | 0.656                                                  |
| 270                                                  | 601D277F100GJ1     | 0.750 x 1.625                               |                                     | 0.461                                                         | 1.110                                                  |
| 390                                                  | 601D387F100GL1     | 0.750 x 2.125                               |                                     | 0.302                                                         | 1.530                                                  |
| 470                                                  | 601D477F100GP1     | 0.750 x 2.625                               |                                     | 0.230                                                         | 1.920                                                  |
| 560                                                  | 601D567F100GS1     | 0.750 x 3.125                               |                                     | 0.183                                                         | 2.330                                                  |
| 680                                                  | 601D687F100GT1     | 0.750 x 3.625                               |                                     | 0.152                                                         | 2.730                                                  |
| 180                                                  | 601D187F100HE1     | 0.875 x 1.125                               |                                     | 0.632                                                         | 0.903                                                  |
| 390                                                  | 601D397F100HJ1     | 0.875 x 1.625                               |                                     | 0.308                                                         | 1.490                                                  |
| 560                                                  | 601D567F100HL1     | 0.875 x 2.125                               |                                     | 0.205                                                         | 2.030                                                  |
| 680                                                  | 601D687F100HP1     | 0.875 x 2.625                               |                                     | 0.155                                                         | 2.560                                                  |
| 820                                                  | 601D827F100HS1     | 0.875 x 3.125                               |                                     | 0.124                                                         | 3.080                                                  |
| 1000                                                 | 601D108F100HT1     | 0.875 x 3.625                               |                                     | 0.108                                                         | 3.530                                                  |
| 270                                                  | 601D277F100JE1     | 1.000 x 1.125                               |                                     | 0.469                                                         | 1.140                                                  |
| 470                                                  | 601D477F100JJ1     | 1.000 x 1.625                               |                                     | 0.226                                                         | 1.880                                                  |
| 820                                                  | 601D827F100JL1     | 1.000 x 2.125                               |                                     | 0.152                                                         | 2.560                                                  |
| 1000                                                 | 601D108F100JP1     | 1.000 x 2.625                               |                                     | 0.120                                                         | 3.140                                                  |
| 1200                                                 | 601D128F100JS1     | 1.000 x 3.125                               | 0.093                               | 3.830                                                         |                                                        |
| 1500                                                 | 601D157F100JT1     | 1.000 x 3.625                               | 0.081                               | 4.370                                                         |                                                        |



| <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<br/>(in)</b> | <b>LEAD DIAMETER<br/>W<br/>(in)</b> | <b>MAX. ESR<br/>AT 120 Hz/25 °C<br/>(<math>\Omega</math>)</b> | <b>MAX. RIPPLE CURRENT<br/>AT 120 Hz/85 °C<br/>(A)</b> |
| <b>150 WV<sub>DC</sub> AT + 85 °C, SURGE = 200 V</b> |                    |                                             |                                     |                                                               |                                                        |
| 33                                                   | 601D336F150FE1     | 0.625 x 1.125                               | No. 20 AWG (0.032)                  | 3.518                                                         | 0.310                                                  |
| 68                                                   | 601D686F150FJ1     | 0.625 x 1.625                               |                                     | 1.677                                                         | 0.522                                                  |
| 100                                                  | 601D107F150FL1     | 0.625 x 2.125                               |                                     | 1.114                                                         | 0.718                                                  |
| 120                                                  | 601D127F150FP1     | 0.625 x 2.625                               |                                     | 0.842                                                         | 0.907                                                  |
| 150                                                  | 601D157F150FS1     | 0.625 x 3.125                               |                                     | 0.672                                                         | 1.100                                                  |
| 180                                                  | 601D187F150FT1     | 0.625 x 3.625                               |                                     | 0.560                                                         | 1.290                                                  |
| 56                                                   | 601D566F150GE1     | 0.750 x 1.125                               | No. 18 AWG (0.040)                  | 2.089                                                         | 0.451                                                  |
| 100                                                  | 601D107F150GJ1     | 0.750 x 1.625                               |                                     | 1.033                                                         | 0.740                                                  |
| 150                                                  | 601D157F150GL1     | 0.750 x 2.125                               |                                     | 0.683                                                         | 1.020                                                  |
| 220                                                  | 601D227F150GP1     | 0.750 x 2.625                               |                                     | 0.511                                                         | 1.290                                                  |
| 270                                                  | 601D277F150GS1     | 0.750 x 3.125                               |                                     | 0.409                                                         | 1.560                                                  |
| 330                                                  | 601D337F150GT1     | 0.750 x 3.625                               |                                     | 0.341                                                         | 1.820                                                  |
| 82                                                   | 601D826F150HE1     | 0.875 x 1.125                               |                                     | 1.395                                                         | 0.608                                                  |
| 150                                                  | 601D157F150HJ1     | 0.875 x 1.625                               |                                     | 0.695                                                         | 0.989                                                  |
| 270                                                  | 601D277F150HL1     | 0.875 x 2.125                               |                                     | 0.451                                                         | 1.370                                                  |
| 330                                                  | 601D337F150HP1     | 0.875 x 2.625                               |                                     | 0.345                                                         | 1.710                                                  |
| 390                                                  | 601D397F150HS1     | 0.875 x 3.125                               |                                     | 0.273                                                         | 2.080                                                  |
| 470                                                  | 601D477F150HT1     | 0.875 x 3.625                               |                                     | 0.226                                                         | 2.440                                                  |
| 100                                                  | 601D107F150JE1     | 1.000 x 1.125                               |                                     | 1.082                                                         | 0.753                                                  |
| 220                                                  | 601D227F150JJ1     | 1.000 x 1.625                               |                                     | 0.502                                                         | 1.260                                                  |
| 330                                                  | 601D337F150JL1     | 1.000 x 2.125                               | 0.328                               | 1.740                                                         |                                                        |
| 470                                                  | 601D477F150JP1     | 1.000 x 2.625                               | 0.244                               | 2.200                                                         |                                                        |
| 560                                                  | 601D566F150JS1     | 1.000 x 3.125                               | 0.195                               | 2.650                                                         |                                                        |
| 680                                                  | 601D687F150JT1     | 1.000 x 3.625                               | 0.165                               | 3.070                                                         |                                                        |
| <b>200 WV<sub>DC</sub> AT + 85 °C, SURGE = 250 V</b> |                    |                                             |                                     |                                                               |                                                        |
| 27                                                   | 601D276F200FE1     | 0.625 x 1.125                               | No. 20 AWG (0.032)                  | 3.985                                                         | 0.292                                                  |
| 56                                                   | 601D566F200FJ1     | 0.625 x 1.625                               |                                     | 1.892                                                         | 0.491                                                  |
| 82                                                   | 601D826F200FL1     | 0.625 x 2.125                               |                                     | 1.242                                                         | 0.680                                                  |
| 100                                                  | 601D107F200FP1     | 0.625 x 2.625                               |                                     | 0.925                                                         | 0.865                                                  |
| 120                                                  | 601D127F200FS1     | 0.625 x 3.125                               |                                     | 0.761                                                         | 1.032                                                  |
| 150                                                  | 601D157F200FT1     | 0.625 x 3.625                               |                                     | 0.651                                                         | 1.190                                                  |
| 47                                                   | 601D476F200GE1     | 0.750 x 1.125                               | No. 18 AWG (0.040)                  | 2.354                                                         | 0.424                                                  |
| 82                                                   | 601D826F200GJ1     | 0.750 x 1.625                               |                                     | 1.142                                                         | 0.704                                                  |
| 120                                                  | 601D127F200GL1     | 0.750 x 2.125                               |                                     | 0.774                                                         | 0.956                                                  |
| 180                                                  | 601D187F200GP1     | 0.750 x 2.625                               |                                     | 0.578                                                         | 1.210                                                  |
| 220                                                  | 601D227F200GS1     | 0.750 x 3.125                               |                                     | 0.462                                                         | 1.460                                                  |
| 270                                                  | 601D277F200GT1     | 0.750 x 3.625                               |                                     | 0.385                                                         | 1.710                                                  |
| 120                                                  | 601D127F200HJ1     | 0.875 x 1.625                               |                                     | 0.787                                                         | 0.930                                                  |
| 180                                                  | 601D187F200HL1     | 0.875 x 2.125                               |                                     | 0.521                                                         | 1.270                                                  |
| 270                                                  | 601D277F200HP1     | 0.875 x 2.625                               |                                     | 0.390                                                         | 1.610                                                  |
| 330                                                  | 601D337F200HS1     | 0.875 x 3.125                               |                                     | 0.302                                                         | 1.970                                                  |
| 390                                                  | 601D397F200HT1     | 0.875 x 3.625                               |                                     | 0.254                                                         | 2.300                                                  |
| 82                                                   | 601D826F200JE1     | 1.000 x 1.125                               |                                     | 1.128                                                         | 0.737                                                  |
| 180                                                  | 601D187F200JJ1     | 1.000 x 1.625                               |                                     | 0.560                                                         | 1.200                                                  |
| 270                                                  | 601D277F200JL1     | 1.000 x 2.125                               |                                     | 0.365                                                         | 1.650                                                  |
| 390                                                  | 601D397F200JP1     | 1.000 x 2.625                               | 0.278                               | 2.060                                                         |                                                        |
| 470                                                  | 601D477F200JS1     | 1.000 x 3.125                               | 0.221                               | 2.490                                                         |                                                        |
| 560                                                  | 601D567F200JT1     | 1.000 x 3.625                               | 0.183                               | 2.910                                                         |                                                        |



| <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<br/>(in)</b> | <b>LEAD DIAMETER<br/>W<br/>(in)</b> | <b>MAX. ESR<br/>AT 120 Hz/25 °C<br/>(<math>\Omega</math>)</b> | <b>MAX. RIPPLE CURRENT<br/>AT 120 Hz/85 °C<br/>(A)</b> |
| <b>250 WV<sub>DC</sub> AT + 85 °C, SURGE = 300 V</b> |                    |                                             |                                     |                                                               |                                                        |
| 15                                                   | 601D156F250FE1     | 0.625 x 1.125                               | No. 20 AWG (0.032)                  | 7.136                                                         | 0.22                                                   |
| 33                                                   | 601D336F250FJ1     | 0.625 x 1.625                               |                                     | 3.228                                                         | 0.38                                                   |
| 47                                                   | 601D476F250FL1     | 0.625 x 2.125                               |                                     | 2.132                                                         | 0.52                                                   |
| 68                                                   | 601D686F250FP1     | 0.625 x 2.625                               |                                     | 1.591                                                         | 0.66                                                   |
| 82                                                   | 601D826F250FS1     | 0.625 x 3.125                               |                                     | 1.270                                                         | 0.80                                                   |
| 100                                                  | 601D107F250FT1     | 0.625 x 3.625                               |                                     | 1.057                                                         | 0.94                                                   |
| 27                                                   | 601D276F250GE1     | 0.750 x 1.125                               | No. 18 AWG (0.040)                  | 3.614                                                         | 0.34                                                   |
| 56                                                   | 601D566F250GJ1     | 0.750 x 1.625                               |                                     | 1.721                                                         | 0.57                                                   |
| 100                                                  | 601D107F250GL1     | 0.750 x 2.125                               |                                     | 1.130                                                         | 0.79                                                   |
| 120                                                  | 601D127F250GP1     | 0.750 x 2.625                               |                                     | 0.880                                                         | 0.98                                                   |
| 150                                                  | 601D157F250GS1     | 0.750 x 3.125                               |                                     | 0.690                                                         | 1.20                                                   |
| 180                                                  | 601D187F250GT1     | 0.750 x 3.625                               |                                     | 0.568                                                         | 1.41                                                   |
| 47                                                   | 601D476F250HE1     | 0.875 x 1.125                               |                                     | 2.369                                                         | 0.47                                                   |
| 100                                                  | 601D107F250HJ1     | 0.875 x 1.625                               |                                     | 1.148                                                         | 0.77                                                   |
| 150                                                  | 601D157F250HL1     | 0.875 x 2.125                               |                                     | 0.753                                                         | 1.06                                                   |
| 180                                                  | 601D187F250HP1     | 0.875 x 2.625                               |                                     | 0.574                                                         | 1.33                                                   |
| 220                                                  | 601D227F250HS1     | 0.875 x 3.125                               |                                     | 0.464                                                         | 1.59                                                   |
| 270                                                  | 601D277F250HT1     | 0.875 x 3.625                               |                                     | 0.375                                                         | 1.89                                                   |
| 56                                                   | 601D566F250JE1     | 1.000 x 1.125                               |                                     | 1.708                                                         | 0.60                                                   |
| 120                                                  | 601D127F250JJ1     | 1.000 x 1.625                               |                                     | 0.829                                                         | 0.98                                                   |
| 180                                                  | 601D187F250JL1     | 1.000 x 2.125                               |                                     | 0.548                                                         | 1.34                                                   |
| 270                                                  | 601D277F250JP1     | 1.000 x 2.625                               |                                     | 0.410                                                         | 1.69                                                   |
| 330                                                  | 601D337F250JS1     | 1.000 x 3.125                               |                                     | 0.328                                                         | 2.04                                                   |
| 390                                                  | 601D397F250JT1     | 1.000 x 3.625                               |                                     | 0.274                                                         | 2.38                                                   |
| <b>300 WV<sub>DC</sub> AT + 85 °C, SURGE = 350 V</b> |                    |                                             |                                     |                                                               |                                                        |
| 12                                                   | 601D126F300FE1     | 0.625 x 1.125                               | No. 20 AWG (0.032)                  | 8.217                                                         | 0.20                                                   |
| 27                                                   | 601D276F300FJ1     | 0.625 x 1.625                               |                                     | 3.809                                                         | 0.35                                                   |
| 39                                                   | 601D396F300FL1     | 0.625 x 2.125                               |                                     | 2.479                                                         | 0.48                                                   |
| 47                                                   | 601D476F300FP1     | 0.625 x 2.625                               |                                     | 1.839                                                         | 0.61                                                   |
| 56                                                   | 601D566F300FS1     | 0.625 x 3.125                               |                                     | 1.461                                                         | 0.75                                                   |
| 68                                                   | 601D686F300FT1     | 0.625 x 3.625                               |                                     | 1.231                                                         | 0.87                                                   |
| 22                                                   | 601D226F300GE1     | 0.750 x 1.125                               | No. 18 AWG (0.040)                  | 4.164                                                         | 0.32                                                   |
| 47                                                   | 601D476F300GJ1     | 0.750 x 1.625                               |                                     | 1.931                                                         | 0.54                                                   |
| 68                                                   | 601D686F300GL1     | 0.750 x 2.125                               |                                     | 1.294                                                         | 0.74                                                   |
| 100                                                  | 601D107F300GP1     | 0.750 x 2.625                               |                                     | 0.953                                                         | 0.94                                                   |
| 120                                                  | 601D127F300GS1     | 0.750 x 3.125                               |                                     | 0.795                                                         | 1.12                                                   |
| 150                                                  | 601D157F300GT1     | 0.750 x 3.625                               |                                     | 0.672                                                         | 1.30                                                   |
| 33                                                   | 601D336F300HE1     | 0.875 x 1.125                               |                                     | 2.712                                                         | 0.44                                                   |
| 68                                                   | 601D686F300HJ1     | 0.875 x 1.625                               |                                     | 1.296                                                         | 0.72                                                   |
| 100                                                  | 601D107F300HL1     | 0.875 x 2.125                               |                                     | 0.886                                                         | 0.98                                                   |
| 150                                                  | 601D157F300HP1     | 0.875 x 2.625                               |                                     | 0.679                                                         | 1.22                                                   |
| 180                                                  | 601D187F300HS1     | 0.875 x 3.125                               |                                     | 0.519                                                         | 1.50                                                   |
| 220                                                  | 601D227F300HT1     | 0.875 x 3.625                               |                                     | 0.441                                                         | 1.74                                                   |
| 47                                                   | 601D476F300JE1     | 1.000 x 1.125                               |                                     | 1.973                                                         | 0.56                                                   |
| 100                                                  | 601D107F300JJ1     | 1.000 x 1.625                               |                                     | 0.947                                                         | 0.92                                                   |
| 150                                                  | 601D157F300JL1     | 1.000 x 2.125                               |                                     | 0.637                                                         | 1.25                                                   |
| 180                                                  | 601D187F300JP1     | 1.000 x 2.625                               |                                     | 0.468                                                         | 1.59                                                   |
| 220                                                  | 601D227F300JS1     | 1.000 x 3.125                               |                                     | 0.386                                                         | 1.88                                                   |
| 270                                                  | 601D277F300JT1     | 1.000 x 3.625                               |                                     | 0.318                                                         | 2.21                                                   |





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