



- *Snubber Capacitor for Energy Conversion in Power semiconductor Circuits*
- *SMPS*
- *Induction heaters*
- *High Voltage*
- *High current*
- *High Pulse Current Applications*

|                                                             |      |                                                                                                              |      |       |      |       |      |      |      |
|-------------------------------------------------------------|------|--------------------------------------------------------------------------------------------------------------|------|-------|------|-------|------|------|------|
| Operating Temperature Range                                 |      | -40°C to +85°C                                                                                               |      |       |      |       |      |      |      |
| Capacitance Tolerance                                       |      | +/- 10% at 1kHz, 20°C                                                                                        |      |       |      |       |      |      |      |
| Rated Voltage                                               | VDC  | 700                                                                                                          | 850  | 1000  | 1200 | 1500  | 2000 | 2500 | 3000 |
|                                                             | SVDC | 1000                                                                                                         | 1200 | 1400  | 1600 | 2000  | 2400 | 3000 | 3500 |
|                                                             | VAC  | 380                                                                                                          | 450  | 480   | 500  | 575   | 630  | 700  | 750  |
| Dissipation Factor (max) at 20°C.                           |      | Freq (kHz)                                                                                                   |      | C≤1μF |      | C>1μF |      |      |      |
|                                                             |      | 1                                                                                                            |      | .05%  |      | .06%  |      |      |      |
| Insulation Resistance @20°C(<70% RH) for 1 minute at 100VDC |      | > 30,000MΩ x μF. Not to exceed 30,000MΩ                                                                      |      |       |      |       |      |      |      |
| Dielectric Strength                                         |      | 200% of rated VDC for 10 seconds at 20°C between leads<br>3KV at 60Hz for 60 seconds between leads and case. |      |       |      |       |      |      |      |
| Self inductance                                             |      | <1nH/mm of body length and lead wire length.                                                                 |      |       |      |       |      |      |      |
| Capacitance drift                                           |      | <1.0% up to 40°C after 2 years                                                                               |      |       |      |       |      |      |      |
| Temperature Coefficient                                     |      | -200ppm/°C +/- 100ppm/°C                                                                                     |      |       |      |       |      |      |      |
| Life Expectancy<br>Capacitance change (typical) -3%         |      | ≥30000 hours @VAC at 70°C<br>≥100,000 hours @WVDC at 70°C                                                    |      |       |      |       |      |      |      |
| Failure rate                                                |      | 300/billion component hours                                                                                  |      |       |      |       |      |      |      |
| Dielectric                                                  |      | Polypropylene                                                                                                |      |       |      |       |      |      |      |
| Electrodes                                                  |      | Vacuum deposited metal layers                                                                                |      |       |      |       |      |      |      |
| Construction                                                |      | Extended double metallized carrier film with internal series connections and metallized film                 |      |       |      |       |      |      |      |
| Leads                                                       |      | Tinned copper leads.                                                                                         |      |       |      |       |      |      |      |
| Coating                                                     |      | Flame retardant polyester tape wrap (UL510)<br>with epoxy end seals (UL94 V-0)                               |      |       |      |       |      |      |      |

## PHYSICAL DIMENSIONS

| WVDC<br>(VAC)<br>μF | 700<br>(380)              | 850<br>(450)                | 1000<br>(480)               | 1,200<br>(500)              | 1,500<br>(575)              | 2,000<br>(630)              | 2500<br>(700)                 | 3,000<br>(750)            |
|---------------------|---------------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|-------------------------------|---------------------------|
| 0.0047              |                           |                             |                             |                             |                             |                             |                               | 11x29                     |
| 0.0068              |                           |                             |                             |                             |                             |                             |                               | 10.5x34<br>12.5x29        |
| 0.01                |                           |                             |                             |                             |                             |                             | 11.5x29<br>13.5x29            | 12x34<br>14.5x29          |
| 0.015               |                           |                             |                             |                             |                             | 11x29                       | 13.5x29                       | 14x34<br>16.5x29          |
| 0.022               |                           |                             |                             |                             |                             | 11x34<br>12.5x29            | 13x34<br>15.5x29              | 16x34                     |
| 0.033               |                           |                             |                             |                             | 12.5x29                     | 13x34<br>14.5x29            | 15x34<br>18x29                | 19x34                     |
| 0.047               |                           |                             | 12x29                       | 10.5x34                     | 14x29                       | 15x34<br>16.5x29            | 17x34                         | 18x46<br>22.5x34          |
| 0.068               |                           | 11.5x29                     | 12.5x29                     | 12x34<br>13.5x29            | 13.5x34<br>16x29            | 17x34                       | 20.5x34                       | 21x46                     |
| 0.1                 | 12x29                     | 11x34<br>13x29              | 12.5x34<br>14.5x29          | 16x29<br>14x34              | 16x34                       | 16.5x46<br>20x34            | 19.5x46<br>24.5x34            | 25x46                     |
| 0.15                | 13.5x29                   | 13x34<br>15x29              | 14.5x34<br>17x29            | 17x34                       | 19.5x34                     | 19.5x46<br>24x34            | 23.5x46                       | 30x46                     |
| 0.22                | 13.5x34<br>15.5x29        | 15x34<br>17.5x29            | 17.5x34                     | 19.5x34                     | 19x46<br>23x34              | 23x46                       | 27.5x46                       | 29x59<br>30.5x55<br>36x46 |
| 0.33                | 15.5x34<br>17.5x29        | 18x34                       | 17x46<br>20.5x34            | 19x46<br>23x34              | 23x46                       | 27.5x46                     | 27.5x59<br>28.5x55<br>33.5x46 | 35x59<br>37x55            |
| 0.39                |                           |                             |                             |                             |                             |                             |                               | 37.5x59<br>40x55          |
| 0.47                | 18x34                     | 18x46<br>21.5x34            | 20x46<br>24x34              | 22x46                       | 27x46                       | 26x59<br>27x55<br>32.5x46   | 32x59<br>33.5x55              | 41x59                     |
| 0.56                |                           |                             |                             |                             |                             | 28.5x59<br>29.5x55<br>35x46 | 34.5x59<br>36.5x55            |                           |
| 0.68                | 18x46<br>21.5x34          | 21x46<br>25.5x34            | 23.5x46                     | 26.5x46                     | 31.5x46                     | 31x59<br>32x55              | 38x59<br>40x55                |                           |
| 0.82                |                           |                             |                             |                             |                             |                             | 41.5x59                       |                           |
| 1                   | 21x46<br>26x34            | 25x46                       | 28x46                       | 25.5x59<br>27x55<br>32x46   | 31.5x55<br>30.5x59<br>37x46 | 37x59<br>39x55              |                               |                           |
| 1.2                 |                           |                             |                             | 28x59<br>29.5x55<br>34.5x46 | 33.5x59<br>35.5x55          | 40.5x59                     |                               |                           |
| 1.5                 | 25.5x46                   | 29.5x46                     | 28x59<br>29.5x55<br>33.5x46 | 31x59<br>33x55<br>37x46     | 37x59<br>40x55              |                             |                               |                           |
| 2                   | 29x46                     | 28x59<br>29x55<br>33.5x46   | 31.5x59<br>33.5x55          | 35.5x59<br>37.5x55<br>39x55 | 42x59                       |                             |                               |                           |
| 2.2                 | 25.5x59<br>27x55<br>30x46 | 29.5x59<br>30.5x55<br>35x46 | 33x59<br>35x55              | 37x59<br>39x55              |                             |                             |                               |                           |
| 2.5                 | 27.5x59<br>29x55<br>32x46 | 31x59<br>32x55<br>36.5x46   |                             | 39x59<br>41x55              |                             |                             |                               |                           |

Convert to inches, divide by 25.4

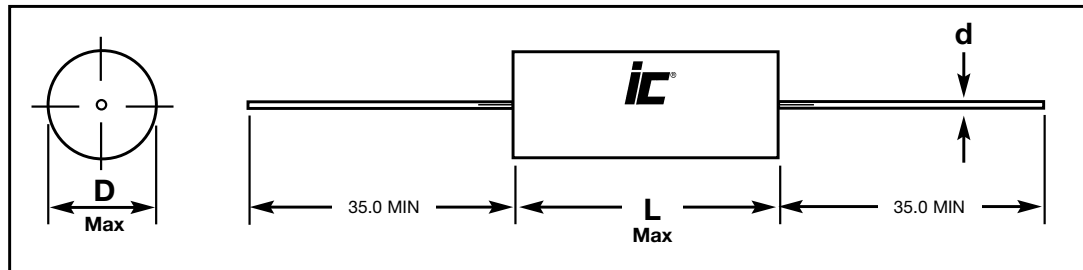
DxL (mm)

## PHYSICAL DIMENSIONS

| WVDC<br>(VAC)<br>μF | 700<br>(380)              | 850<br>(450)       | 1000<br>(480)    | 1,200<br>(500) | 1,500<br>(575) | 2,000<br>(630) | 2500<br>(700) | 3,000<br>(750) |
|---------------------|---------------------------|--------------------|------------------|----------------|----------------|----------------|---------------|----------------|
| 3                   | 29.5x59<br>31x55<br>35x46 | 34x59<br>36x55     | 38x59<br>40.5x55 | 42x59          |                |                |               |                |
| 3.3                 | 30.5x59<br>32x55<br>36x46 | 35x59<br>37x55     | 40x59            |                |                |                |               |                |
| 4                   | 33x59<br>34.5x55          | 38.5x59<br>40.5x55 |                  |                |                |                |               |                |
| 4.7                 | 35.5x59<br>37.5x55        | 41.5x59            |                  |                |                |                |               |                |
| 5.6                 | 38.5x59<br>41x55          |                    |                  |                |                |                |               |                |
| 6.8                 | 42x59                     |                    |                  |                |                |                |               |                |

Convert to inches, divide by 25.4

DxL (mm)



| D       | d   |
|---------|-----|
| ≤18     | 0.8 |
| 18<D≤24 | 1.0 |
| >24     | 1.2 |

## STANDARD PART LISTING

| CAPACITANCE<br>(μF) | WVDC | IC <sup>®</sup> PART<br>NUMBER | dv/dt<br>(V/μs) | MAXIMUM<br>RMS CURRENT<br>@100kHz,<br>70°C in Amps | TYPICAL ESR<br>@100 kHz,<br>+25°C in mΩ | Dimensions<br>DxL<br>(mm) |
|---------------------|------|--------------------------------|-----------------|----------------------------------------------------|-----------------------------------------|---------------------------|
| 0.0047              | 3000 | 472PPA302KG                    | 3400            | 1                                                  | 88.0                                    | 11x29                     |
| 0.0068              | 3000 | 682PPA302K                     | 2750            | 1.5                                                | 77.0                                    | 10.5x34                   |
| 0.0068              | 3000 | 682PPA302KG                    | 3400            | 1.5                                                | 65.0                                    | 12.5x29                   |
| 0.01                | 2500 | 103PPA252KG                    | 2650            | 1.5                                                | 52.0                                    | 11.5x29                   |
| 0.01                | 3000 | 103PPA302K                     | 2750            | 2                                                  | 54.5                                    | 12x34                     |
| 0.01                | 3000 | 103PPA302KG                    | 3400            | 2                                                  | 46.0                                    | 14.5x29                   |
| 0.015               | 2000 | 153PPA202KG                    | 2150            | 2                                                  | 37.5                                    | 11x29                     |
| 0.015               | 2500 | 153PPA252KG                    | 2650            | 2.5                                                | 37.0                                    | 13.5x29                   |
| 0.015               | 3000 | 153PPA302K                     | 2750            | 3                                                  | 38.5                                    | 14x34                     |
| 0.015               | 3000 | 153PPA302KG                    | 3400            | 3                                                  | 33.5                                    | 16.5x29                   |
| 0.022               | 2000 | 223PPA202K                     | 1750            | 2.5                                                | 33.5                                    | 11x34                     |
| 0.022               | 2000 | 223PPA202KG                    | 2150            | 2.5                                                | 27.5                                    | 12.5x29                   |
| 0.022               | 2500 | 223PPA252KG                    | 2650            | 3                                                  | 27.0                                    | 15.5x29                   |
| 0.022               | 2500 | 223PPA252KJ                    | 2150            | 2.5                                                | 31.0                                    | 13x34                     |
| 0.022               | 3000 | 223PPA302K                     | 2750            | 4                                                  | 27.0                                    | 16x34                     |
| 0.033               | 1500 | 333PPA152KG                    | 1500            | 3                                                  | 22.0                                    | 12.5x29                   |
| 0.033               | 2000 | 333PPA202K                     | 1750            | 3.5                                                | 23.8                                    | 13x34                     |
| 0.033               | 2000 | 333PPA202KG                    | 2150            | 3.5                                                | 20.7                                    | 14.5x29                   |
| 0.033               | 2500 | 333PPA252K                     | 2150            | 4                                                  | 23.0                                    | 15x34                     |
| 0.033               | 2500 | 333PPA252KG                    | 2650            | 4                                                  | 20.0                                    | 18x29                     |
| 0.033               | 3000 | 333PPA302K                     | 2750            | 5                                                  | 19.0                                    | 19x34                     |
| 0.047               | 1200 | 473PPA122K                     | 1300            | 3                                                  | 16.9                                    | 12x29                     |
| 0.047               | 1200 | 473PPA122KD11                  | 1100            | 3                                                  | 19.0                                    | 10.5x34                   |
| 0.047               | 1500 | 473PPA152KG                    | 1500            | 3.5                                                | 16.5                                    | 14x29                     |
| 0.047               | 2000 | 473PPA202K                     | 1750            | 4.5                                                | 16.8                                    | 15x34                     |
| 0.047               | 2000 | 473PPA202KG                    | 2150            | 4.5                                                | 15                                      | 16.5x29                   |
| 0.047               | 2500 | 473PPA252K                     | 2150            | 5                                                  | 16.5                                    | 17x34                     |
| 0.047               | 3000 | 473PPA302K                     | 1600            | 6                                                  | 17.8                                    | 18x46                     |
| 0.047               | 3000 | 473PPA302KD23                  | 2750            | 6.5                                                | 13.8                                    | 22.5x34                   |
| 0.068               | 850  | 683PPA850KG                    | 850             | 3                                                  | 13.9                                    | 11.5x29                   |
| 0.068               | 1000 | 683PPA102KG                    | 1000            | 3.5                                                | 13.5                                    | 12.5x29                   |
| 0.068               | 1200 | 683PPA122K                     | 1300            | 3.5                                                | 12.8                                    | 13.5x29                   |
| 0.068               | 1200 | 683PPA122KD12                  | 1100            | 3.5                                                | 14.3                                    | 12x34                     |
| 0.068               | 1500 | 683PPA152K                     | 1225            | 4                                                  | 13.8                                    | 13.5x34                   |
| 0.068               | 1500 | 683PPA152KG                    | 1500            | 4                                                  | 12.4                                    | 16x29                     |
| 0.068               | 2000 | 683PPA202K                     | 1750            | 5.5                                                | 11.8                                    | 17x34                     |
| 0.068               | 2500 | 683PPA252K                     | 2150            | 6.5                                                | 11.5                                    | 20.5x34                   |
| 0.068               | 3000 | 683PPA302K                     | 1600            | 8                                                  | 12.8                                    | 21x46                     |
| 0.1                 | 700  | 104PPA700KG                    | 600             | 3                                                  | 13                                      | 12x29                     |
| 0.1                 | 850  | 104PPA850K                     | 850             | 4                                                  | 10.4                                    | 13x29                     |
| 0.1                 | 850  | 104PPA850KD11                  | 700             | 4                                                  | 11.5                                    | 11x34                     |
| 0.1                 | 1000 | 104PPA102KG                    | 1000            | 4.5                                                | 9.9                                     | 14.5x29                   |
| 0.1                 | 1000 | 104PPA102KJ                    | 850             | 4.5                                                | 11                                      | 12.5x34                   |
| 0.1                 | 1200 | 104PPA122K                     | 1100            | 5                                                  | 10.7                                    | 14x34                     |
| 0.1                 | 1200 | 104PPA122KG                    | 1300            | 5                                                  | 9.7                                     | 16x29                     |
| 0.1                 | 1500 | 104PPA152K                     | 1225            | 5.5                                                | 9.6                                     | 16x34                     |
| 0.1                 | 2000 | 104PPA202KD16                  | 1000            | 7                                                  | 12.4                                    | 16.5x46                   |
| 0.1                 | 2000 | 104PPA202K                     | 1750            | 7.5                                                | 8.4                                     | 20x34                     |
| 0.1                 | 2500 | 104PPA252K                     | 2150            | 8.5                                                | 8                                       | 24.5x34                   |
| 0.1                 | 2500 | 104PPA252KD20                  | 1350            | 8.5                                                | 12                                      | 19.5x46                   |
| 0.1                 | 3000 | 104PPA302K                     | 1600            | 11                                                 | 9.4                                     | 25x46                     |
| 0.15                | 700  | 154PPA700KG                    | 600             | 4.5                                                | 9.4                                     | 13.5x29                   |
| 0.15                | 850  | 154PPA850K                     | 700             | 5.5                                                | 8.6                                     | 13x34                     |

| CAPACITANCE<br>(μF) | WVDC | IC <sup>®</sup> PART<br>NUMBER | dv/dt<br>(V/μs) | MAXIMUM<br>RMS CURRENT<br>@100kHz,<br>70°C in Amps | TYPICAL ESR<br>@100 kHz,<br>+25°C in mΩ | Dimensions<br>DxL<br>(mm) |
|---------------------|------|--------------------------------|-----------------|----------------------------------------------------|-----------------------------------------|---------------------------|
| 0.15                | 850  | 154PPA850KD15                  | 850             | 5.5                                                | 7.6                                     | 15x29                     |
| 0.15                | 1000 | 154PPA102K                     | 850             | 6                                                  | 8.2                                     | 14.5x34                   |
| 0.15                | 1000 | 154PPA102KG                    | 1000            | 6                                                  | 7.3                                     | 17x29                     |
| 0.15                | 1200 | 154PPA122K                     | 1100            | 6                                                  | 7.7                                     | 17x34                     |
| 0.15                | 1500 | 154PPA152K                     | 1225            | 7                                                  | 7.2                                     | 19.5x34                   |
| 0.15                | 2000 | 154PPA202K                     | 1000            | 9                                                  | 8.3                                     | 19.5x46                   |
| 0.15                | 2000 | 154PPA202KD24                  | 1750            | 9                                                  | 6.6                                     | 24x34                     |
| 0.15                | 2500 | 154PPA252K                     | 1350            | 9                                                  | 8.1                                     | 23.5x46                   |
| 0.15                | 3000 | 154PPA302K                     | 1600            | 12                                                 | 6.8                                     | 30x46                     |
| 0.22                | 700  | 224PPA700KG                    | 600             | 5                                                  | 7.1                                     | 15.5x29                   |
| 0.22                | 700  | 224PPA700KJ                    | 485             | 5                                                  | 8.0                                     | 13.5x34                   |
| 0.22                | 850  | 224PPA850K                     | 700             | 6.5                                                | 6.6                                     | 15x34                     |
| 0.22                | 850  | 224PPA850KG                    | 850             | 6.5                                                | 6.1                                     | 17.5x29                   |
| 0.22                | 1000 | 224PPA102K                     | 850             | 7                                                  | 5.9                                     | 17.5x34                   |
| 0.22                | 1200 | 224PPA122K                     | 1100            | 9                                                  | 5.4                                     | 19.5x34                   |
| 0.22                | 1500 | 224PPA152K                     | 1225            | 9                                                  | 5.3                                     | 23x34                     |
| 0.22                | 1500 | 224PPA152KD19                  | 800             | 9                                                  | 7.0                                     | 19x46                     |
| 0.22                | 2000 | 224PPA202K                     | 1000            | 9                                                  | 6.0                                     | 23x46                     |
| 0.22                | 2500 | 224PPA252K                     | 1350            | 11                                                 | 5.9                                     | 27.5x46                   |
| 0.22                | 3000 | 224PPA302K                     | 1600            | 12                                                 | 5.2                                     | 36x46                     |
| 0.22                | 3000 | 224PPA302KD31                  | 1000            | 12                                                 | 5.9                                     | 30.5x55                   |
| 0.22                | 3000 | 224PPA302KS                    | 875             | 12                                                 | 6.5                                     | 29x59                     |
| 0.33                | 700  | 334PPA700K                     | 485             | 6.5                                                | 6.0                                     | 15.5x34                   |
| 0.33                | 700  | 334PPA700KG                    | 600             | 6.5                                                | 5.4                                     | 17.5x29                   |
| 0.33                | 850  | 334PPA850K                     | 700             | 8                                                  | 4.8                                     | 18x34                     |
| 0.33                | 1000 | 334PPA102K                     | 850             | 9                                                  | 4.5                                     | 20.5x34                   |
| 0.33                | 1000 | 334PPA102KD17                  | 570             | 9                                                  | 5.9                                     | 17x46                     |
| 0.33                | 1200 | 334PPA122K                     | 650             | 9                                                  | 5.4                                     | 19x46                     |
| 0.33                | 1200 | 334PPA122KD23                  | 1100            | 9                                                  | 4.5                                     | 23x34                     |
| 0.33                | 1500 | 334PPA152K                     | 800             | 9                                                  | 5.3                                     | 23x46                     |
| 0.33                | 2000 | 334PPA202K                     | 1000            | 12                                                 | 4.7                                     | 27.5x46                   |
| 0.33                | 2500 | 334PPA252K                     | 1350            | 12                                                 | 4.5                                     | 33.5x46                   |
| 0.33                | 2500 | 334PPA252KD29                  | 900             | 12                                                 | 5.4                                     | 28.5x55                   |
| 0.33                | 2500 | 334PPA252KS                    | 750             | 12                                                 | 6.0                                     | 27.5x59                   |
| 0.33                | 3000 | 334PPA302K                     | 1000            | 12                                                 | 4.9                                     | 37x55                     |
| 0.33                | 3000 | 334PPA302KS                    | 875             | 12                                                 | 5.4                                     | 35x59                     |
| 0.39                | 3000 | 394PPA302K                     | 1000            | 12                                                 | 4.4                                     | 40x55                     |
| 0.39                | 3000 | 394PPA302KS                    | 875             | 12                                                 | 4.9                                     | 37.5x59                   |
| 0.47                | 700  | 474PPA700K                     | 485             | 8                                                  | 4.7                                     | 18x34                     |
| 0.47                | 850  | 474PPA850K                     | 700             | 9                                                  | 4.0                                     | 21.5x34                   |
| 0.47                | 850  | 474PPA850KD18                  | 400             | 9                                                  | 5.0                                     | 18x46                     |
| 0.47                | 1000 | 474PPA102K                     | 850             | 9                                                  | 3.8                                     | 24x34                     |
| 0.47                | 1000 | 474PPA102KD20                  | 570             | 9                                                  | 4.7                                     | 20x46                     |
| 0.47                | 1200 | 474PPA122K                     | 650             | 9                                                  | 4.8                                     | 22x46                     |
| 0.47                | 1500 | 474PPA152K                     | 800             | 11                                                 | 4.3                                     | 27x46                     |
| 0.47                | 2000 | 474PPA202K                     | 1000            | 12                                                 | 3.9                                     | 32.5x46                   |
| 0.47                | 2000 | 474PPA202KR                    | 650             | 12                                                 | 5.4                                     | 27x55                     |
| 0.47                | 2000 | 474PPA2102KS                   | 580             | 12                                                 | 6.0                                     | 26x59                     |
| 0.47                | 2500 | 474PPA252K                     | 900             | 12                                                 | 4.4                                     | 33.5x55                   |
| 0.47                | 2500 | 474PPA252KS                    | 750             | 12                                                 | 4.9                                     | 32x59                     |
| 0.47                | 3000 | 474PPA302KS                    | 875             | 12                                                 | 4.5                                     | 41x59                     |
| 0.56                | 2000 | 564PPA202K                     | 650             | 12                                                 | 4.5                                     | 29.5x55                   |
| 0.56                | 2000 | 564PPA202KD35                  | 560             | 12                                                 | 3.6                                     | 35x46                     |



## STANDARD PART LISTING

| CAPACITANCE<br>( $\mu$ F) | WVDC | IC <sup>®</sup> PART<br>NUMBER | dv/dt<br>(V/ $\mu$ s) | MAXIMUM<br>RMS CURRENT<br>@100kHz,<br>70°C in Amps | TYPICAL ESR<br>@100 kHz,<br>+25°C in m $\Omega$ | Dimensions<br>DxL<br>(mm) |
|---------------------------|------|--------------------------------|-----------------------|----------------------------------------------------|-------------------------------------------------|---------------------------|
| 0.56                      | 2000 | 564PPA202KS                    | 580                   | 12                                                 | 5.0                                             | 28.5x59                   |
| 0.56                      | 2500 | 564PPA252K                     | 900                   | 12                                                 | 4.0                                             | 36.5x55                   |
| 0.56                      | 2500 | 564PPA252KS                    | 750                   | 12                                                 | 4.5                                             | 34.5x59                   |
| 0.68                      | 700  | 684PPA700K                     | 325                   | 9                                                  | 4.4                                             | 18x46                     |
| 0.68                      | 700  | 684PPA700KD22                  | 485                   | 9                                                  | 3.9                                             | 21.5x34                   |
| 0.68                      | 850  | 684PPA850K                     | 400                   | 9                                                  | 4.1                                             | 21x46                     |
| 0.68                      | 850  | 684PPA850KD26                  | 700                   | 9                                                  | 3.2                                             | 25.5x34                   |
| 0.68                      | 1000 | 684PPA102K                     | 570                   | 9                                                  | 4.0                                             | 23.5x46                   |
| 0.68                      | 1200 | 684PPA122K                     | 650                   | 12                                                 | 3.9                                             | 26.5x46                   |
| 0.68                      | 1500 | 684PPA152K                     | 800                   | 12                                                 | 3.7                                             | 31.5x46                   |
| 0.68                      | 2000 | 684PPA202K                     | 650                   | 12                                                 | 4.0                                             | 32x55                     |
| 0.68                      | 2000 | 684PPA202KS                    | 580                   | 12                                                 | 4.5                                             | 31x59                     |
| 0.68                      | 2500 | 684PPA252K                     | 900                   | 12                                                 | 3.7                                             | 40x55                     |
| 0.68                      | 2500 | 684PPA252KS                    | 750                   | 12                                                 | 4.1                                             | 38x59                     |
| 0.82                      | 2500 | 824PPA252KS                    | 750                   | 12                                                 | 3.8                                             | 41.5x59                   |
| 1                         | 700  | 105PPA700K                     | 325                   | 9                                                  | 3.9                                             | 21x46                     |
| 1                         | 700  | 105PPA700KD26                  | 485                   | 12                                                 | 3.2                                             | 26x34                     |
| 1                         | 850  | 105PPA850K                     | 400                   | 12                                                 | 3.3                                             | 25x46                     |
| 1                         | 1000 | 105PPA102K                     | 570                   | 12                                                 | 3.2                                             | 28x46                     |
| 1                         | 1200 | 105PPA122K                     | 650                   | 12                                                 | 3.4                                             | 32x46                     |
| 1                         | 1200 | 105PPA122KR                    | 400                   | 12                                                 | 4.0                                             | 27x55                     |
| 1                         | 1200 | 105PPA122KS                    | 350                   | 12                                                 | 4.5                                             | 25.5x59                   |
| 1                         | 1500 | 105PPA152K                     | 575                   | 12                                                 | 3.7                                             | 31.5x55                   |
| 1                         | 1500 | 105PPA152KD37                  | 800                   | 12                                                 | 3.2                                             | 37x46                     |
| 1                         | 1500 | 105PPA152KS                    | 500                   | 12                                                 | 4.2                                             | 30.5x59                   |
| 1                         | 2000 | 105PPA202K                     | 650                   | 12                                                 | 3.3                                             | 39x55                     |
| 1                         | 2000 | 105PPA202KS                    | 580                   | 12                                                 | 3.7                                             | 37x59                     |
| 1.2                       | 1200 | 125PPA122K                     | 400                   | 12                                                 | 3.4                                             | 29.5x55                   |
| 1.2                       | 1200 | 125PPA122KD35                  | 650                   | 12                                                 | 3.0                                             | 34.5x46                   |
| 1.2                       | 1200 | 125PPA122KS                    | 350                   | 12                                                 | 3.8                                             | 28x59                     |
| 1.2                       | 1500 | 125PPA152K                     | 575                   | 12                                                 | 3.4                                             | 31.5x55                   |
| 1.2                       | 1500 | 125PPA152KS                    | 500                   | 12                                                 | 3.7                                             | 33.5x59                   |
| 1.2                       | 2000 | 125PPA202KS                    | 580                   | 12                                                 | 3.4                                             | 40.5x59                   |
| 1.5                       | 700  | 155PPA700K                     | 325                   | 12                                                 | 3.3                                             | 25.5x46                   |
| 1.5                       | 850  | 155PPA850K                     | 400                   | 12                                                 | 2.8                                             | 29.5x46                   |
| 1.5                       | 1000 | 155PPA102K                     | 350                   | 12                                                 | 3.2                                             | 29.5x55                   |
| 1.5                       | 1000 | 155PPA102KD34                  | 570                   | 12                                                 | 2.6                                             | 33.5x46                   |
| 1.5                       | 1000 | 155PPA102KS                    | 320                   | 12                                                 | 3.6                                             | 28x59                     |
| 1.5                       | 1200 | 155PPA122K                     | 400                   | 12                                                 | 3.0                                             | 33x55                     |
| 1.5                       | 1200 | 155PPA122KD37                  | 650                   | 12                                                 | 2.7                                             | 37x46                     |
| 1.5                       | 1200 | 155PPA122KS                    | 350                   | 12                                                 | 3.4                                             | 31x59                     |
| 1.5                       | 1500 | 155PPA152K                     | 575                   | 12                                                 | 2.9                                             | 40x55                     |
| 1.5                       | 1500 | 155PPA152KS                    | 500                   | 12                                                 | 3.2                                             | 37x59                     |
| 2                         | 700  | 205PPA700KN                    | 325                   | 12                                                 | 3.0                                             | 29x46                     |
| 2                         | 850  | 205PPA850K                     | 300                   | 12                                                 | 3.0                                             | 29x55                     |
| 2                         | 850  | 205PPA850KD34                  | 400                   | 12                                                 | 2.4                                             | 33.5x46                   |
| 2                         | 850  | 205PPA850KS                    | 275                   | 12                                                 | 3.4                                             | 28x59                     |

| CAPACITANCE<br>( $\mu$ F) | WVDC | IC <sup>®</sup> PART<br>NUMBER | dv/dt<br>(V/ $\mu$ s) | MAXIMUM<br>RMS CURRENT<br>@100kHz,<br>70°C in Amps | TYPICAL ESR<br>@100 kHz,<br>+25°C in m $\Omega$ | Dimensions<br>DxL<br>(mm) |
|---------------------------|------|--------------------------------|-----------------------|----------------------------------------------------|-------------------------------------------------|---------------------------|
| 2                         | 1000 | 205PPA102KR                    | 350                   | 12                                                 | 2.9                                             | 33.5x55                   |
| 2                         | 1000 | 205PPA102KS                    | 320                   | 12                                                 | 3.2                                             | 31.5x59                   |
| 2                         | 1200 | 205PPA122K                     | 400                   | 12                                                 | 2.9                                             | 39x55                     |
| 2                         | 1200 | 205PPA122KS                    | 350                   | 12                                                 | 2.9                                             | 35.5x59                   |
| 2                         | 1500 | 205PPA152KS                    | 500                   | 12                                                 | 2.8                                             | 42x59                     |
| 2.2                       | 700  | 225PPA700K                     | 325                   | 12                                                 | 2.9                                             | 30x46                     |
| 2.2                       | 700  | 225PPA700KD27                  | 245                   | 12                                                 | 3.8                                             | 27x55                     |
| 2.2                       | 700  | 225PPA700KS                    | 200                   | 12                                                 | 4.2                                             | 25.5x59                   |
| 2.2                       | 850  | 225PPA850K                     | 300                   | 12                                                 | 2.8                                             | 30.5x55                   |
| 2.2                       | 850  | 225PPA850KD35                  | 400                   | 12                                                 | 2.3                                             | 35x46                     |
| 2.2                       | 850  | 225PPA850KS                    | 275                   | 12                                                 | 3.2                                             | 29.5x59                   |
| 2.2                       | 1000 | 225PPA102K                     | 350                   | 12                                                 | 2.7                                             | 35x55                     |
| 2.2                       | 1000 | 225PPA102KS                    | 320                   | 12                                                 | 3.0                                             | 33x59                     |
| 2.2                       | 1200 | 225PPA122K                     | 400                   | 12                                                 | 2.5                                             | 39x55                     |
| 2.2                       | 1200 | 225PPA122KS                    | 350                   | 12                                                 | 2.8                                             | 37x59                     |
| 2.5                       | 700  | 255PPA700KN                    | 325                   | 12                                                 | 2.8                                             | 32x46                     |
| 2.5                       | 700  | 255PPA700KR                    | 245                   | 12                                                 | 3.5                                             | 29x55                     |
| 2.5                       | 700  | 255PPA700KS                    | 200                   | 12                                                 | 3.9                                             | 27.5x59                   |
| 2.5                       | 850  | 255PPA850K                     | 300                   | 12                                                 | 2.2                                             | 32x55                     |
| 2.5                       | 850  | 255PPA850KN                    | 400                   | 12                                                 | 2.6                                             | 36.5x46                   |
| 2.5                       | 850  | 255PPA850KS                    | 275                   | 12                                                 | 2.5                                             | 31x59                     |
| 2.5                       | 1200 | 255PPA122KR                    | 400                   | 12                                                 | 2.3                                             | 41x55                     |
| 2.5                       | 1200 | 255PPA122KS                    | 350                   | 12                                                 | 2.6                                             | 39x59                     |
| 3                         | 700  | 305PPA700KN                    | 325                   | 12                                                 | 2.6                                             | 35x46                     |
| 3                         | 700  | 305PPA700KR                    | 245                   | 12                                                 | 3.2                                             | 31x55                     |
| 3                         | 700  | 305PPA700KS                    | 200                   | 12                                                 | 3.6                                             | 29.5x59                   |
| 3                         | 850  | 305PPA850KR                    | 300                   | 12                                                 | 2.5                                             | 36x55                     |
| 3                         | 850  | 305PPA850KS                    | 275                   | 12                                                 | 2.8                                             | 34x59                     |
| 3                         | 1000 | 305PPA102K                     | 350                   | 12                                                 | 2.4                                             | 40.5x55                   |
| 3                         | 1000 | 305PPA102KS                    | 320                   | 12                                                 | 2.6                                             | 38x59                     |
| 3                         | 1200 | 305PPA122KS                    | 350                   | 12                                                 | 2.4                                             | 42x59                     |
| 3.3                       | 700  | 335PPA700K                     | 325                   | 12                                                 | 2.5                                             | 36x46                     |
| 3.3                       | 700  | 335PPA700KD32                  | 245                   | 12                                                 | 3.1                                             | 32x55                     |
| 3.3                       | 700  | 335PPA700KS                    | 200                   | 12                                                 | 3.5                                             | 30.5x59                   |
| 3.3                       | 850  | 335PPA850K                     | 300                   | 12                                                 | 2.4                                             | 37x55                     |
| 3.3                       | 850  | 335PPA850KS                    | 275                   | 12                                                 | 2.7                                             | 35x59                     |
| 3.3                       | 1000 | 335PPA102KS                    | 320                   | 12                                                 | 2.5                                             | 40x59                     |
| 4                         | 700  | 405PPA700KR                    | 245                   | 12                                                 | 2.8                                             | 34.5x59                   |
| 4                         | 700  | 405PPA700KS                    | 200                   | 12                                                 | 3.1                                             | 33x59                     |
| 4                         | 850  | 405PPA850KR                    | 300                   | 12                                                 | 2.3                                             | 40.5x55                   |
| 4                         | 850  | 405PPA850KS                    | 275                   | 12                                                 | 2.6                                             | 38.5x59                   |
| 4.7                       | 700  | 475PPA700K                     | 245                   | 12                                                 | 2.6                                             | 37.5x55                   |
| 4.7                       | 700  | 475PPA700KS                    | 200                   | 12                                                 | 2.9                                             | 35.5x59                   |
| 4.7                       | 850  | 475PPA850KS                    | 275                   | 12                                                 | 2.4                                             | 41.5x59                   |
| 5.6                       | 700  | 565PPA700KS                    | 200                   | 12                                                 | 2.6                                             | 38.5x59                   |
| 5.6                       | 700  | 565PPA700K                     | 245                   | 12                                                 | 2.3                                             | 41x55                     |
| 6.8                       | 700  | 685PPA700KS                    | 200                   | 12                                                 | 2.4                                             | 42x59                     |