

USC SERIES

85°C Standard

*Load Life : 85°C 3000 hours.



◆ SPECIFICATIONS

| Items | Characteristics | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|--|------------|---------------------|-----------------------------------|--------------------|--|-----------------|------------------------------------|---------|---------|---------------|---------|------------------|---------------|------|------|------|------|------|------|------|------|------|------|------|--|
| Category Temperature Range | -40~+85°C | -25~+85°C | | | | | | | | | | | | | | | | | | | | | | | | |
| Rated Voltage Range | 10~250Vdc | 315~450Vdc | | | | | | | | | | | | | | | | | | | | | | | | |
| Capacitance Tolerance | ±20% (20°C, 120Hz) | | | | | | | | | | | | | | | | | | | | | | | | | |
| Leakage Current(MAX) | $I=3\sqrt{CV}$ (After 5 minutes application of rated voltage) I=Leakage Current(µA) C=Capacitance(µF) V=Rated Voltage(Vdc) | | | | | | | | | | | | | | | | | | | | | | | | | |
| Dissipation Factor(MAX) (tanδ) | <table border="1"> <thead> <tr> <th>Rated Voltage (Vdc)</th> <th>10</th> <th>16</th> <th>25</th> <th>35</th> <th>50</th> <th>63</th> <th>80</th> <th>100</th> <th>160~400</th> <th>420~450</th> <th>(20°C, 120Hz)</th> </tr> </thead> <tbody> <tr> <td>tanδ</td> <td>0.55</td> <td>0.50</td> <td>0.45</td> <td>0.40</td> <td>0.35</td> <td>0.30</td> <td>0.25</td> <td>0.20</td> <td>0.15</td> <td>0.25</td> <td></td> </tr> </tbody> </table> | | Rated Voltage (Vdc) | 10 | 16 | 25 | 35 | 50 | 63 | 80 | 100 | 160~400 | 420~450 | (20°C, 120Hz) | tanδ | 0.55 | 0.50 | 0.45 | 0.40 | 0.35 | 0.30 | 0.25 | 0.20 | 0.15 | 0.25 | |
| Rated Voltage (Vdc) | 10 | 16 | 25 | 35 | 50 | 63 | 80 | 100 | 160~400 | 420~450 | (20°C, 120Hz) | | | | | | | | | | | | | | | |
| tanδ | 0.55 | 0.50 | 0.45 | 0.40 | 0.35 | 0.30 | 0.25 | 0.20 | 0.15 | 0.25 | | | | | | | | | | | | | | | | |
| Endurance | After applying rated voltage with rated ripple current for 3000 hours at 85°C, the capacitors shall meet the following requirements. <table border="1"> <tbody> <tr> <td>Capacitance Change</td> <td>Within ±20% of the initial value.</td> </tr> <tr> <td>Dissipation Factor</td> <td>Not more than 200% of the specified value.</td> </tr> <tr> <td>Leakage Current</td> <td>Not more than the specified value.</td> </tr> </tbody> </table> | | Capacitance Change | Within ±20% of the initial value. | Dissipation Factor | Not more than 200% of the specified value. | Leakage Current | Not more than the specified value. | | | | | | | | | | | | | | | | | | |
| Capacitance Change | Within ±20% of the initial value. | | | | | | | | | | | | | | | | | | | | | | | | | |
| Dissipation Factor | Not more than 200% of the specified value. | | | | | | | | | | | | | | | | | | | | | | | | | |
| Leakage Current | Not more than the specified value. | | | | | | | | | | | | | | | | | | | | | | | | | |
| Low Temperature Stability Impedance Ratio(MAX) | <table border="1"> <thead> <tr> <th>Rated Voltage (Vdc)</th> <th>10~250</th> <th>315~400</th> <th>420~450</th> <th>(120Hz)</th> </tr> </thead> <tbody> <tr> <td>Z(-25°C)/Z(20°C)</td> <td>3</td> <td>8</td> <td>12</td> <td></td> </tr> <tr> <td>Z(-40°C)/Z(20°C)</td> <td>12</td> <td>-</td> <td>-</td> <td></td> </tr> </tbody> </table> | | Rated Voltage (Vdc) | 10~250 | 315~400 | 420~450 | (120Hz) | Z(-25°C)/Z(20°C) | 3 | 8 | 12 | | Z(-40°C)/Z(20°C) | 12 | - | - | | | | | | | | | | |
| Rated Voltage (Vdc) | 10~250 | 315~400 | 420~450 | (120Hz) | | | | | | | | | | | | | | | | | | | | | | |
| Z(-25°C)/Z(20°C) | 3 | 8 | 12 | | | | | | | | | | | | | | | | | | | | | | | |
| Z(-40°C)/Z(20°C) | 12 | - | - | | | | | | | | | | | | | | | | | | | | | | | |

◆ MULTIPLIER FOR RIPPLE CURRENT

| Frequency (Hz) | | 60(50) | 120(100) | 300 | 500 | 1k | 10k≦ |
|----------------|------------|--------|----------|------|------|------|------|
| Coefficient | 10~100Vdc | 0.90 | 1.00 | 1.03 | 1.05 | 1.10 | 1.15 |
| | 160~250Vdc | 0.80 | 1.00 | 1.15 | 1.20 | 1.30 | 1.50 |
| | 315~450Vdc | 0.80 | 1.00 | 1.15 | 1.20 | 1.25 | 1.40 |

◆ OPTION

| | Code |
|--------------------------|------|
| PET Sleeve without plate | EFC |

◆ PART NUMBER

□□□ USC □□□□□ M □□□ SN DXL
 Rated Voltage Series Capacitance Capacitance Tolerance Option Terminal Code Case Size

◆ DIMENSIONS

(mm)



◆ STANDARD SIZE

| Cap (μ F) | Vdc ϕ D | 10 | | | | | 16 | | | | |
|-------------------|-----------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
| | | ϕ 20 | ϕ 22 | ϕ 25 | ϕ 30 | ϕ 35 | ϕ 20 | ϕ 22 | ϕ 25 | ϕ 30 | ϕ 35 |
| 8200 | | | | | | | 20x25: 2.56 | | | | |
| 10000 | | 20x25: 2.22 | | | | | 20x30: 2.85 | 22x25: 2.85 | | | |
| 12000 | | 20x30: 2.44 | 22x25: 2.41 | | | | 20x35: 3.20 | 22x30: 3.20 | | | |
| 15000 | | 20x35: 2.90 | 22x30: 2.88 | 25x25: 2.88 | | | 20x40: 3.70 | 22x35: 3.70 | 25x25: 3.70 | | |
| 18000 | | 20x40: 3.31 | 22x35: 3.22 | 25x30: 3.08 | | | | 22x40: 3.98 | 25x30: 3.98 | | |
| 22000 | | | 22x40: 3.79 | 25x30: 3.66 | 30x25: 3.58 | | | 22x45: 4.52 | 25x35: 4.52 | 30x25: 4.52 | |
| 27000 | | | 22x45: 4.04 | 25x35: 4.04 | 30x30: 3.99 | | | 22x50: 4.98 | 25x40: 4.98 | 30x30: 4.98 | |
| 33000 | | | 22x50: 4.58 | 25x40: 4.56 | 30x30: 4.58 | | | | 25x45: 5.49 | 30x35: 5.49 | 35x30: 5.49 |
| 39000 | | | | 25x45: 5.29 | 30x35: 5.21 | 35x30: 5.05 | | | 25x50: 6.11 | 30x40: 6.11 | 35x35: 6.11 |
| 47000 | | | | 25x50: 5.78 | 30x40: 5.78 | 35x35: 5.55 | | | | 30x45: 6.80 | 35x35: 6.80 |
| 56000 | | | | | 30x45: 6.59 | 35x35: 6.40 | | | | 30x50: 7.62 | 35x40: 7.62 |
| 68000 | | | | | 30x50: 7.50 | 35x40: 7.48 | | | | | 35x45: 8.45 |
| 82000 | | | | | | 35x50: 8.50 | | | | | 35x50: 9.14 |

| Cap (μ F) | Vdc ϕ D | 25 | | | | | 35 | | | | |
|-------------------|-----------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
| | | ϕ 20 | ϕ 22 | ϕ 25 | ϕ 30 | ϕ 35 | ϕ 20 | ϕ 22 | ϕ 25 | ϕ 30 | ϕ 35 |
| 3300 | | | | | | | 20x25: 2.14 | | | | |
| 3900 | | | | | | | 20x30: 2.28 | | | | |
| 4700 | | | | | | | 20x35: 2.46 | 22x25: 2.46 | | | |
| 5600 | | 20x25: 2.33 | | | | | 20x40: 2.79 | 22x30: 2.79 | 25x25: 2.79 | | |
| 6800 | | 20x30: 2.56 | 22x25: 2.56 | | | | | 22x35: 2.89 | 25x30: 2.89 | | |
| 8200 | | 20x35: 2.91 | 22x30: 2.91 | | | | | 22x40: 3.47 | 25x30: 3.47 | 30x25: 3.47 | |
| 10000 | | 20x40: 3.18 | 22x35: 3.18 | 25x25: 3.18 | | | | 22x45: 3.59 | 25x35: 3.59 | 30x30: 3.59 | |
| 12000 | | | 22x40: 3.53 | 25x30: 3.53 | | | | 22x50: 4.51 | 25x40: 4.51 | 30x30: 4.51 | |
| 15000 | | | 22x45: 4.08 | 25x35: 4.08 | 30x25: 4.08 | | | 25x45: 4.80 | 30x35: 4.80 | 35x30: 4.80 | |
| 18000 | | | 22x50: 4.68 | 25x40: 4.68 | 30x30: 4.68 | | | | 30x40: 5.70 | 35x35: 5.70 | |
| 22000 | | | | 25x45: 5.19 | 30x35: 5.19 | 35x30: 5.19 | | | | 30x45: 6.38 | 35x40: 6.38 |
| 27000 | | | | 25x50: 6.02 | 30x40: 6.02 | 35x35: 6.02 | | | | | 35x45: 6.90 |
| 33000 | | | | | 30x45: 6.75 | 35x40: 6.75 | | | | | 35x50: 7.49 |
| 39000 | | | | | 30x50: 7.56 | 35x45: 7.56 | | | | | |
| 47000 | | | | | | 35x50: 8.30 | | | | | |

| Cap (μ F) | Vdc ϕ D | 50 | | | | | 63 | | | | |
|-------------------|-----------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
| | | ϕ 20 | ϕ 22 | ϕ 25 | ϕ 30 | ϕ 35 | ϕ 20 | ϕ 22 | ϕ 25 | ϕ 30 | ϕ 35 |
| 1500 | | | | | | | 20x25: 1.69 | | | | |
| 1800 | | | | | | | 20x30: 2.04 | 22x25: 2.04 | | | |
| 2200 | | 20x25: 2.07 | | | | | 20x35: 2.40 | 22x30: 2.40 | | | |
| 2700 | | 20x30: 2.21 | 22x25: 2.21 | | | | 20x40: 2.52 | 22x35: 2.52 | 25x25: 2.52 | | |
| 3300 | | 20x35: 2.41 | 22x30: 2.41 | | | | | 22x40: 2.69 | 25x30: 2.69 | | |
| 3900 | | 20x40: 2.72 | 22x30: 2.72 | 25x25: 2.72 | | | | 22x45: 3.10 | 25x35: 3.10 | 30x25: 3.10 | |
| 4700 | | | 22x35: 3.01 | 25x30: 3.01 | | | | 22x50: 3.49 | 25x40: 3.49 | 30x30: 3.49 | |
| 5600 | | | 22x40: 3.43 | 25x35: 3.43 | 30x25: 3.43 | | | | 25x45: 3.81 | 30x35: 3.81 | |
| 6800 | | | 22x45: 3.94 | 25x35: 3.94 | 30x30: 3.94 | | | | 25x50: 4.41 | 30x40: 4.41 | 35x30: 4.41 |
| 8200 | | | | 25x40: 4.37 | 30x35: 4.37 | | | | | 30x45: 4.90 | 35x35: 4.90 |
| 10000 | | | | 25x50: 5.02 | 30x40: 5.02 | 35x30: 5.02 | | | | 30x50: 5.49 | 35x40: 5.49 |
| 12000 | | | | | 30x45: 5.60 | 35x35: 5.60 | | | | | 35x45: 6.30 |
| 15000 | | | | | 30x50: 6.44 | 35x40: 6.44 | | | | | |
| 18000 | | | | | | 35x45: 6.71 | | | | | |

| Cap (μ F) | Vdc ϕ D | 80 | | | | | 100 | | | | |
|-------------------|-----------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
| | | ϕ 20 | ϕ 22 | ϕ 25 | ϕ 30 | ϕ 35 | ϕ 20 | ϕ 22 | ϕ 25 | ϕ 30 | ϕ 35 |
| 680 | | | | | | | 20x25: 1.66 | | | | |
| 820 | | | | | | | 20x30: 1.86 | 22x25: 1.86 | | | |
| 1000 | | 20x25: 1.56 | | | | | 20x30: 2.02 | 22x30: 2.02 | | | |
| 1200 | | 20x30: 1.80 | 22x25: 1.80 | | | | 20x35: 2.12 | 22x30: 2.12 | 25x25: 2.12 | | |
| 1500 | | 20x30: 2.10 | 22x30: 2.10 | | | | 20x40: 2.45 | 22x35: 2.45 | 25x30: 2.45 | | |
| 1800 | | 20x35: 2.30 | 22x30: 2.30 | 25x25: 2.30 | | | | 22x40: 2.77 | 25x30: 2.77 | 30x25: 2.77 | |
| 2200 | | 20x40: 2.53 | 22x35: 2.53 | 25x30: 2.53 | | | | 22x45: 3.12 | 25x35: 3.12 | 30x30: 3.12 | |
| 2700 | | | 22x40: 2.93 | 25x35: 2.93 | 30x25: 2.93 | | | | 25x40: 3.61 | 30x30: 3.61 | |
| 3300 | | | 22x45: 3.25 | 25x35: 3.25 | 30x30: 3.25 | | | | 25x50: 4.06 | 30x35: 4.06 | 35x30: 4.06 |
| 3900 | | | | 25x40: 3.62 | 30x35: 3.62 | | | | | 30x40: 4.60 | 35x35: 4.60 |
| 4700 | | | | 25x45: 4.28 | 30x40: 4.28 | 35x30: 4.28 | | | | 30x45: 5.13 | 35x40: 5.13 |
| 5600 | | | | | 30x45: 4.55 | 35x35: 4.55 | | | | | 35x45: 5.75 |
| 6800 | | | | | 30x45: 5.83 | 35x40: 5.83 | | | | | 35x50: 6.01 |
| 8200 | | | | | | 35x45: 6.40 | | | | | |
| 10000 | | | | | | 35x50: 7.03 | | | | | |

↑ Ripple Current (A r.m.s./120Hz, 85°C)
 Case Size ϕ D×L(mm)

◆ STANDARD SIZE

| Cap (μ F) | Vdc ϕ D | 160 | | | | | 180 | | | | | | |
|-------------------|-----------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|--|--|
| | | ϕ 20 | ϕ 22 | ϕ 25 | ϕ 30 | ϕ 35 | ϕ 20 | ϕ 22 | ϕ 25 | ϕ 30 | ϕ 35 | | |
| 270 | | 20x25: 1.28 | | | | | 20x25: 1.29 | | | | | | |
| 330 | | 20x25: 1.55 | | | | | 20x30: 1.77 | 22x25: 1.49 | | | | | |
| 390 | | 20x30: 1.63 | 22x25: 1.63 | | | | 20x30: 1.84 | 22x25: 1.84 | | | | | |
| 470 | | 20x30: 1.90 | 22x30: 1.86 | 25x25: 1.86 | | | 20x35: 1.91 | 22x30: 1.91 | 25x25: 2.08 | | | | |
| 560 | | 20x35: 2.14 | 22x30: 2.15 | 25x25: 2.15 | | | 20x40: 2.15 | 22x35: 2.25 | 25x25: 2.25 | | | | |
| 680 | | 20x40: 2.35 | 22x35: 2.35 | 25x30: 2.33 | 30x25: 2.33 | | | 22x35: 2.48 | 25x30: 2.50 | 30x25: 2.46 | | | |
| 820 | | | 22x40: 2.68 | 25x30: 2.65 | 30x25: 2.64 | | | 22x40: 2.86 | 25x35: 2.75 | 30x25: 2.69 | | | |
| 1000 | | | 22x45: 3.02 | 25x35: 3.00 | 30x30: 2.96 | | | 22x50: 3.10 | 25x40: 3.06 | 30x30: 3.10 | | | |
| 1200 | | | | 25x40: 3.43 | 30x30: 3.41 | 35x30: 3.40 | | | 25x45: 3.63 | 30x35: 3.55 | 35x30: 3.49 | | |
| 1500 | | | | 25x50: 3.96 | 30x35: 3.96 | 35x30: 3.94 | | | | 30x40: 4.10 | 35x35: 4.02 | | |
| 1800 | | | | | 30x40: 4.31 | 35x35: 4.28 | | | | 30x45: 4.55 | 35x35: 4.54 | | |
| 2200 | | | | | 30x50: 4.96 | 35x40: 4.96 | | | | | 35x40: 4.83 | | |
| 2700 | | | | | | 35x45: 5.57 | | | | | 35x50: 5.30 | | |

| Cap (μ F) | Vdc ϕ D | 200 | | | | | 220 | | | | | | |
|-------------------|-----------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|--|--|
| | | ϕ 20 | ϕ 22 | ϕ 25 | ϕ 30 | ϕ 35 | ϕ 20 | ϕ 22 | ϕ 25 | ϕ 30 | ϕ 35 | | |
| 220 | | 20x25: 1.19 | | | | | 20x25: 1.23 | | | | | | |
| 270 | | 20x25: 1.39 | 22x25: 1.37 | | | | 20x30: 1.46 | 22x25: 1.42 | | | | | |
| 330 | | 20x30: 1.56 | 22x25: 1.51 | | | | 20x35: 1.64 | 22x30: 1.59 | | | | | |
| 390 | | 20x35: 1.74 | 22x30: 1.73 | 25x25: 1.71 | | | 20x35: 1.79 | 22x30: 1.80 | 25x25: 1.75 | | | | |
| 470 | | 20x35: 2.03 | 22x30: 1.97 | 25x25: 1.95 | | | 20x40: 2.12 | 22x35: 2.06 | 25x30: 2.08 | | | | |
| 560 | | 20x40: 2.18 | 22x35: 2.18 | 25x30: 2.15 | 30x25: 2.15 | | | 22x40: 2.22 | 25x35: 2.38 | 30x25: 2.18 | | | |
| 680 | | | 22x40: 2.48 | 25x30: 2.48 | 30x25: 2.48 | | | 22x45: 2.62 | 25x35: 2.56 | 30x30: 2.52 | | | |
| 820 | | | 22x45: 2.81 | 25x35: 2.79 | 30x30: 2.75 | | | | 25x45: 2.91 | 30x35: 2.84 | 35x30: 2.79 | | |
| 1000 | | | 22x50: 3.28 | 25x40: 3.28 | 30x35: 3.15 | | | | | 30x35: 3.36 | 35x30: 3.29 | | |
| 1200 | | | | 25x45: 3.61 | 30x35: 3.61 | 35x30: 3.57 | | | | 30x40: 3.72 | 35x35: 3.68 | | |
| 1500 | | | | | 30x45: 4.13 | 35x35: 4.06 | | | | 30x50: 4.18 | 35x40: 4.10 | | |
| 1800 | | | | | 30x50: 4.60 | 35x40: 4.59 | | | | | 35x45: 4.52 | | |
| 2200 | | | | | | 35x45: 5.25 | | | | | | | |

| Cap (μ F) | Vdc ϕ D | 250 | | | | | 315 | | | | | | |
|-------------------|-----------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|--|--|
| | | ϕ 20 | ϕ 22 | ϕ 25 | ϕ 30 | ϕ 35 | ϕ 20 | ϕ 22 | ϕ 25 | ϕ 30 | ϕ 35 | | |
| 150 | | | | | | | 20x30: 1.00 | | | | | | |
| 180 | | 20x25: 1.20 | | | | | 20x35: 1.13 | 22x30: 1.29 | 25x25: 1.38 | | | | |
| 220 | | 20x25: 1.26 | 22x25: 1.24 | | | | 20x35: 1.29 | 22x30: 1.41 | 25x25: 1.47 | | | | |
| 270 | | 20x30: 1.42 | 22x25: 1.50 | | | | | 22x35: 1.68 | 25x30: 1.70 | | | | |
| 330 | | 20x35: 1.68 | 22x30: 1.66 | 25x25: 1.61 | | | | 22x40: 1.91 | 25x35: 1.94 | 30x25: 1.98 | | | |
| 390 | | 20x40: 1.92 | 22x35: 1.88 | 25x30: 1.88 | | | | 22x45: 2.07 | 25x40: 2.11 | 30x30: 2.15 | | | |
| 470 | | | 22x35: 2.15 | 25x35: 2.15 | 30x25: 2.04 | | | | 25x50: 2.31 | 30x35: 2.38 | 35x30: 2.36 | | |
| 560 | | | 22x40: 2.48 | 25x35: 2.35 | 30x25: 2.35 | | | | | 30x35: 2.63 | 35x30: 2.69 | | |
| 680 | | | | 25x40: 2.67 | 30x30: 2.71 | | | | | 30x45: 2.80 | 35x35: 3.05 | | |
| 820 | | | | 25x45: 3.01 | 30x35: 2.98 | 35x30: 2.96 | | | | 30x50: 3.28 | 35x40: 3.45 | | |
| 1000 | | | | | 30x40: 3.56 | 35x35: 3.48 | | | | | 35x45: 3.57 | | |
| 1200 | | | | | 30x45: 3.99 | 35x35: 3.84 | | | | | | | |
| 1500 | | | | | | 35x40: 4.33 | | | | | | | |
| 1800 | | | | | | 35x50: 4.54 | | | | | | | |

| Cap (μ F) | Vdc ϕ D | 350 | | | | | 385 | | | | | | |
|-------------------|-----------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|--|
| | | ϕ 20 | ϕ 22 | ϕ 25 | ϕ 30 | ϕ 35 | ϕ 20 | ϕ 22 | ϕ 25 | ϕ 30 | ϕ 35 | | |
| 68 | | | | | | | 20x25: 0.68 | | | | | | |
| 82 | | | | | | | 20x30: 0.74 | 22x25: 0.76 | | | | | |
| 100 | | | | | | | 20x30: 0.86 | 22x30: 0.89 | | | | | |
| 120 | | 20x30: 0.96 | 22x25: 1.04 | | | | | 20x35: 0.96 | 22x30: 0.98 | 25x25: 1.02 | | | |
| 150 | | 20x30: 1.10 | 22x30: 1.20 | 25x25: 1.22 | | | | 20x35: 1.10 | 22x35: 1.12 | 25x30: 1.14 | | | |
| 180 | | 20x35: 1.24 | 22x30: 1.34 | 25x25: 1.37 | | | | 20x40: 1.27 | 22x35: 1.27 | 25x30: 1.30 | 30x25: 1.37 | | |
| 220 | | | 22x35: 1.47 | 25x30: 1.53 | 30x25: 1.54 | | | | 22x40: 1.42 | 25x35: 1.48 | 30x30: 1.49 | | |
| 270 | | | 22x40: 1.70 | 25x35: 1.73 | 30x25: 1.80 | | | | 22x50: 1.60 | 25x40: 1.61 | 30x30: 1.64 | | |
| 330 | | | 22x45: 1.87 | 25x35: 1.97 | 30x30: 2.03 | | | | | 25x45: 1.80 | 30x35: 1.85 | 35x30: 1.87 | |
| 390 | | | | 25x40: 2.14 | 30x35: 2.23 | 35x30: 2.30 | | | | 25x50: 2.04 | 30x40: 2.05 | 35x35: 2.07 | |
| 470 | | | | 25x50: 2.55 | 30x35: 2.53 | 35x30: 2.55 | | | | | 30x45: 2.26 | 35x35: 2.26 | |
| 560 | | | | | 30x40: 2.73 | 35x35: 2.75 | | | | | 30x50: 2.57 | 35x40: 2.59 | |
| 680 | | | | | 30x50: 3.15 | 35x40: 3.15 | | | | | | 35x45: 2.80 | |
| 820 | | | | | | 35x45: 3.47 | | | | | | | |
| 1000 | | | | | | 35x50: 3.60 | | | | | | | |

↑ Ripple Current (A r.m.s./120Hz, 85°C)
 ↑ Case Size ϕ D×L(mm)

◆ STANDARD SIZE

| Cap (μ F) | Vdc ϕ D | 400 | | | | | 420 | | | | | |
|-------------------|-----------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|--|
| | | ϕ 20 | ϕ 22 | ϕ 25 | ϕ 30 | ϕ 35 | ϕ 20 | ϕ 22 | ϕ 25 | ϕ 30 | ϕ 35 | |
| 68 | | 20x25; 0.75 | | | | | 20x25; 0.70 | | | | | |
| 82 | | 20x30; 0.82 | 22x25; 0.84 | | | | 20x30; 0.80 | 22x25; 0.85 | | | | |
| 100 | | 20x30; 0.95 | 22x30; 0.99 | | | | 20x35; 0.90 | 22x30; 0.97 | 25x25; 0.98 | | | |
| 120 | | 20x35; 1.07 | 22x30; 1.09 | 25x25; 1.13 | | | 20x35; 1.04 | 22x30; 1.07 | 25x25; 1.08 | | | |
| 150 | | 20x40; 1.22 | 22x35; 1.24 | 25x30; 1.27 | | | 20x40; 1.17 | 22x35; 1.21 | 25x30; 1.26 | 30x25; 1.30 | | |
| 180 | | | 22x40; 1.41 | 25x30; 1.44 | 30x25; 1.52 | | | 22x40; 1.33 | 25x35; 1.42 | 30x25; 1.48 | | |
| 220 | | | 22x45; 1.58 | 25x35; 1.64 | 30x30; 1.66 | | | 22x45; 1.55 | 25x35; 1.58 | 30x30; 1.65 | | |
| 270 | | | | 25x40; 1.79 | 30x30; 1.82 | | | | 25x40; 1.74 | 30x35; 1.90 | 35x30; 1.94 | |
| 330 | | | | 25x45; 2.00 | 30x35; 2.05 | 35x30; 2.05 | | | 25x50; 2.20 | 30x35; 1.98 | 35x35; 2.17 | |
| 390 | | | | | 30x40; 2.26 | 35x35; 2.28 | | | | 30x40; 2.22 | 35x35; 2.27 | |
| 470 | | | | | 30x45; 2.51 | 35x40; 2.54 | | | | 30x45; 2.50 | 35x40; 2.61 | |
| 560 | | | | | 30x50; 2.85 | 35x40; 2.85 | | | | | 35x45; 2.95 | |
| 680 | | | | | | 35x50; 3.10 | | | | | | |

| Cap (μ F) | Vdc ϕ D | 450 | | | | |
|-------------------|-----------------|-------------|-------------|-------------|-------------|-------------|
| | | ϕ 20 | ϕ 22 | ϕ 25 | ϕ 30 | ϕ 35 |
| 56 | | 20x25; 0.61 | | | | |
| 68 | | 20x30; 0.70 | 22x25; 0.71 | | | |
| 82 | | 20x35; 0.80 | 22x25; 0.86 | | | |
| 100 | | 20x35; 0.88 | 22x30; 0.95 | 25x25; 0.97 | | |
| 120 | | 20x40; 0.99 | 22x35; 1.07 | 25x30; 1.09 | 30x25; 1.12 | |
| 150 | | | 22x40; 1.18 | 25x30; 1.25 | 30x25; 1.29 | |
| 180 | | | 22x45; 1.32 | 25x35; 1.40 | 30x30; 1.45 | |
| 220 | | | | 25x40; 1.59 | 30x30; 1.64 | 35x30; 1.66 |
| 270 | | | | 25x45; 1.73 | 30x35; 1.89 | 35x30; 1.90 |
| 330 | | | | 25x50; 2.12 | 30x40; 2.12 | 35x35; 2.15 |
| 390 | | | | | 30x45; 2.35 | 35x40; 2.38 |
| 470 | | | | | 30x50; 2.65 | 35x45; 2.68 |
| 560 | | | | | | 35x50; 2.88 |

↑ Ripple Current (A r.m.s./120Hz, 85°C)
 ↑ Case Size ϕ D×L(mm)

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