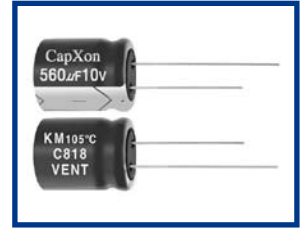


KM Series Standard 105°C

Features

- ◆ Used in communication equipments, switching power supply, etc.
- ◆ Safety vent construction design.
- ◆ For detail specifications, please refer to Engineering Bulletin No. E102
- ◆ RoHS Compliant



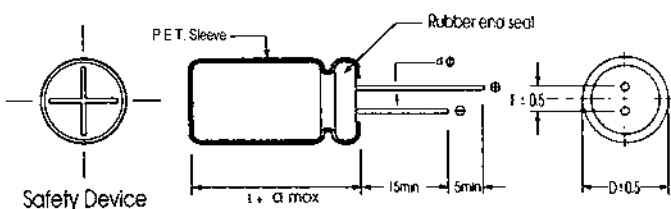
Specifications

| Item | Performance Characteristics | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|--|--|----------------------|-----|-----|-----|-----|-----|--------------|---------------|-----|---------------|----|----|----|----|----|----|---|---|---------------|---|---|---|---|---|---|---|
| Operating Temperature Range | -40 to +105°C | -25 to +105°C | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Rated Voltage Range | 6.3 to 100 VDC | 160 to 450 VDC | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Capacitance Range | 0.1 to 22000 µF | 0.47 to 470 µF | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Capacitance Tolerance | ±20% (120Hz, +20°C) | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Leakage Current (+20°C, max.) | I ≤ 0.01 CV or 3 (µA) After 1 minute whichever is greater measured with rated working voltage applied. | I ≤ 0.03 CV (µA) After 1 minute with rated working voltage applied. | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Dissipation Factor (tan δ, at 20°C, 120Hz) | <table border="1"> <tr> <td>Working Voltage(VDC)</td> <td>6.3</td> <td>10</td> <td>16</td> <td>25</td> <td>35</td> <td>50</td> <td>63</td> <td>100</td> </tr> <tr> <td>D.F. (%)max.</td> <td>22</td> <td>17</td> <td>15</td> <td>14</td> <td>12</td> <td>10</td> <td>9</td> <td>8</td> </tr> </table> | | Working Voltage(VDC) | 6.3 | 10 | 16 | 25 | 35 | 50 | 63 | 100 | D.F. (%)max. | 22 | 17 | 15 | 14 | 12 | 10 | 9 | 8 | | | | | | | | |
| | Working Voltage(VDC) | 6.3 | 10 | 16 | 25 | 35 | 50 | 63 | 100 | | | | | | | | | | | | | | | | | | | |
| D.F. (%)max. | 22 | 17 | 15 | 14 | 12 | 10 | 9 | 8 | | | | | | | | | | | | | | | | | | | | |
| <table border="1"> <tr> <td>Working Voltage(VDC)</td> <td>160</td> <td>200</td> <td>250</td> <td>350</td> <td>400</td> <td>450</td> </tr> <tr> <td>D.F. (%)max.</td> <td>12</td> <td>12</td> <td>12</td> <td>15</td> <td>15</td> <td>17</td> </tr> </table> <p>For capacitance > 1000 µF, add 2% per another 1000 µF.</p> | | Working Voltage(VDC) | 160 | 200 | 250 | 350 | 400 | 450 | D.F. (%)max. | 12 | 12 | 12 | 15 | 15 | 17 | | | | | | | | | | | | | |
| Working Voltage(VDC) | 160 | 200 | 250 | 350 | 400 | 450 | | | | | | | | | | | | | | | | | | | | | | |
| D.F. (%)max. | 12 | 12 | 12 | 15 | 15 | 17 | | | | | | | | | | | | | | | | | | | | | | |
| Low Temperature Characteristics (at 120Hz) | Impedance ratio max | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | <table border="1"> <tr> <td>Working Voltage(VDC)</td> <td>6.3</td> <td>10</td> <td>16</td> <td>25</td> <td>35</td> <td>50</td> <td>63</td> <td>100</td> </tr> <tr> <td>Z-25°C/Z+20°C</td> <td>4</td> <td>3</td> <td>2</td> <td>2</td> <td>2</td> <td>2</td> <td>2</td> <td>2</td> </tr> <tr> <td>Z-40°C/Z+20°C</td> <td>8</td> <td>6</td> <td>4</td> <td>3</td> <td>3</td> <td>3</td> <td>3</td> <td>3</td> </tr> </table> | | Working Voltage(VDC) | 6.3 | 10 | 16 | 25 | 35 | 50 | 63 | 100 | Z-25°C/Z+20°C | 4 | 3 | 2 | 2 | 2 | 2 | 2 | 2 | Z-40°C/Z+20°C | 8 | 6 | 4 | 3 | 3 | 3 | 3 |
| Working Voltage(VDC) | 6.3 | 10 | 16 | 25 | 35 | 50 | 63 | 100 | | | | | | | | | | | | | | | | | | | | |
| Z-25°C/Z+20°C | 4 | 3 | 2 | 2 | 2 | 2 | 2 | 2 | | | | | | | | | | | | | | | | | | | | |
| Z-40°C/Z+20°C | 8 | 6 | 4 | 3 | 3 | 3 | 3 | 3 | | | | | | | | | | | | | | | | | | | | |
| Load Life | <table border="1"> <tr> <td>Working Voltage(VDC)</td> <td>160</td> <td>200</td> <td>250</td> <td>350</td> <td>400</td> <td>450</td> </tr> <tr> <td>Z-25°C/Z+20°C</td> <td>2</td> <td>2</td> <td>3</td> <td>5</td> <td>6</td> <td>6</td> </tr> </table> <p>For Capacitance > 1000 µF, add 0.5 per another 1000 µF for -25°C/+20°C add 1 per another 1000 µF for -40°C/+20°C</p> | | Working Voltage(VDC) | 160 | 200 | 250 | 350 | 400 | 450 | Z-25°C/Z+20°C | 2 | 2 | 3 | 5 | 6 | 6 | | | | | | | | | | | | |
| | Working Voltage(VDC) | 160 | 200 | 250 | 350 | 400 | 450 | | | | | | | | | | | | | | | | | | | | | |
| Z-25°C/Z+20°C | 2 | 2 | 3 | 5 | 6 | 6 | | | | | | | | | | | | | | | | | | | | | | |
| Shelf Life | <p>Test conditions</p> <p>Duration time :2000Hrs</p> <p>Ambient temperature :+105°C</p> <p>Applied voltage :Rated DC working voltage</p> <p>After test requirement at +20°C</p> <p>Capacitance change :≤ ±20% of the initial measured value</p> <p>Dissipation factor :≤ 200% of the initial specified value</p> <p>Leakage current :≤ The initial specified value</p> | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Shelf Life | <p>Test conditions</p> <p>Duration time :1000Hrs</p> <p>Ambient temperature :+105°C</p> <p>Applied voltage :None</p> <p>After test requirement at +20°C:Same limits as Load life.</p> <p>Pre-treatment for measurements shall be conducted after application of DC working voltage for 30 minutes.</p> | | | | | | | | | | | | | | | | | | | | | | | | | | | |

Multiplier for Ripple Current vs. Frequency

| CAP(µF)\Frequency(Hz) | 50(60) | 120 | 400 | 1K | 10K | 50K-100K |
|-----------------------|--------|-----|------|------|------|----------|
| CAP ≤ 10 | 0.8 | 1 | 1.30 | 1.45 | 1.65 | 1.70 |
| 10 < CAP ≤ 100 | 0.8 | 1 | 1.23 | 1.36 | 1.48 | 1.53 |
| 100 < CAP ≤ 1000 | 0.8 | 1 | 1.16 | 1.25 | 1.35 | 1.38 |
| 1000 < CAP | 0.8 | 1 | 1.11 | 1.17 | 1.25 | 1.28 |

Diagram of Dimensions:(unit:mm)



| D φ | 5 | 6.3 | 8 | 10 | 13 | 16 | 18 | 22 |
|-----|-----|-----|---------------|---------------|-----|-----|-----|----|
| F | 2.0 | 2.5 | 3.5 | 5.0 | 5.0 | 7.5 | 7.5 | 10 |
| d φ | 0.5 | | L < 20 0.5 | L ≥ 20 0.6 | 0.6 | | 0.8 | |

| α | D < 18 | D = 18 | | D > 18 |
|---|--------|----------|----------|--------|
| | | L < 35.5 | L ≥ 35.5 | |
| | 1.5 | 1.5 | 2.0 | 2.0 |

Case Size

φ DxL(mm)

| WV (SV) Cap(μF) | 6.3 (8) | | 10 (13) | | 16 (20) | | 25 (32) | | 35 (44) | |
|--------------------|------------|--------|------------|--------|------------|--------|------------|--------|------------|--------|
| | Size | Ripple | Size | Ripple | Size | Ripple | Size | Ripple | Size | Ripple |
| 4.7 | | | | | | | 5X11 | 26 | 5X11 | 28 |
| 6.8 | | | | | | | 5X11 | 32 | 5X11 | 36 |
| 10 | | | | | 5X11 | 35 | 5X11 | 38 | 5X11 | 46 |
| 22 | | | 5X11 | 45 | 5X11 | 54 | 5X11 | 58 | 5X11 | 61 |
| 33 | 5X11 | 54 | 5X11 | 60 | 5X11 | 64 | 5X11 | 69 | 5X11 | 75 |
| 47 | 5X11 | 65 | 5X11 | 70 | 5X11 | 100 | 5X11 | 105 | 5X11 | 110 |
| 68 | 5X11 | 75 | 5X11 | 80 | 5X11 | 105 | 6.3X11 | 120 | 6.3X11 | 140 |
| 100 | 5X11 | 96 | 5X11 | 105 | 5X11 | 115 | 6.3X11 | 145 | 6.3X11 | 160 |
| | | | | | 6.3X11 | 130 | | | 8X11.5 | 175 |
| 120 | 5X11 | 110 | 5X11 | 110 | 6.3X11 | 155 | 6.3X11 | 175 | 8X11.5 | 185 |
| | | | 6.3X11 | 120 | | | | | | |
| 150 | 5X11 | 120 | 5X11 | 120 | 6.3X11 | 170 | 6.3X11 | 180 | 8X11.5 | 215 |
| | 6.3X11 | 130 | 6.3X11 | 145 | | | 8X11.5 | 200 | | |
| 180 | 6.3X11 | 140 | 6.3X11 | 160 | 6.3X11 | 190 | 8X11.5 | 210 | 8X11.5 | 225 |
| | | | | | | | | | 10X12.5 | 265 |
| 220 | 6.3X11 | 160 | 6.3X11 | 175 | 6.3X11 | 215 | 8X11.5 | 235 | 8X11.5 | 255 |
| | | | | | | | | | 10X12.5 | 300 |
| 330 | 6.3X11 | 195 | 6.3X11 | 205 | 6.3X11 | 225 | 8X11.5 | 310 | 10X12.5 | 400 |
| | | | 8X11.5 | 255 | 8X11.5 | 265 | 10X12.5 | 335 | | |
| 470 | 6.3X11 | 220 | 6.3X11 | 235 | 8X11.5 | 370 | 8X11.5 | 410 | 10X16 | 520 |
| | 8X11.5 | 270 | 8X11.5 | 290 | 8X16 | 400 | 10X12.5 | 440 | | |
| 560 | 8X11.5 | 310 | 8X11.5 | 330 | | | 10X16 | 460 | 10X20 | 540 |
| | | | 10X12.5 | 340 | 10X12.5 | 410 | | | | |
| 680 | 8X11.5 | 360 | 8X11.5 | 365 | 8X16 | 470 | | | 10X20 | 560 |
| | | | 8X16 | 410 | 10X12.5 | 480 | 10X16 | 520 | 13X20 | 650 |
| 820 | 8X11.5 | 390 | 10X12.5 | 480 | 10X16 | 550 | 10X20 | 640 | 13X20 | 760 |
| 1000 | 10X12.5 | 430 | 10X12.5 | 520 | 10X12.5 | 540 | 10X20 | 710 | 13X20 | 830 |
| | | | | | 10X16 | 600 | | | | |
| 1200 | 10X12.5 | 550 | 10X16 | 630 | 10X20 | 700 | 13X20 | 810 | 13X20 | 900 |
| | | | | | | | | | 13X25 | 930 |
| 1500 | 10X16 | 625 | 8X20 | 715 | 10X20 | 820 | 13X20 | 900 | 13X25 | 960 |
| | | | 10X16 | 770 | | | | | | |
| 1800 | 10X16 | 710 | 10X20 | 820 | 13X20 | 920 | 13X25 | 1050 | 16X25 | 1150 |
| 2200 | 10X16 | 750 | 10X20 | 860 | 13X20 | 1000 | 13X25 | 1200 | 16X25 | 1290 |
| | 10X20 | 775 | | | | | | | 16X31.5 | 1350 |
| 2700 | 10X20 | 850 | 10X25 | 880 | 13X20 | 1080 | 16X25 | 1320 | 16X31.5 | 1480 |
| | | | 13X20 | 920 | | | | | | |
| 3300 | 13X20 | 960 | 13X20 | 1100 | 13X25 | 1200 | 16X25 | 1460 | 16X35.5 | 1650 |
| 3900 | 13X20 | 1000 | 13X20 | 1280 | 16X25 | 1490 | 16X31.5 | 1670 | 18X31.5 | 1820 |
| 4700 | 13X20 | 1150 | 13X25 | 1350 | 16X25 | 1600 | 16X35.5 | 1780 | 18X35.5 | 1900 |
| 5600 | 13X25 | 1300 | 16X25 | 1490 | 16X31.5 | 1720 | 16X35.5 | 1890 | 18X35.5 | 2000 |
| 6800 | 13X25 | 1480 | 16X25 | 1670 | 16X31.5 | 1900 | 18X35.5 | 2050 | | |
| 8200 | 16X25 | 1520 | 16X31.5 | 1840 | 16X35.5 | 2020 | 18X35.5 | 2090 | | |
| 10000 | 16X25 | 1680 | 16X35.5 | 1900 | 18X35.5 | 2060 | | | | |
| 12000 | 16X31.5 | 1750 | 16X35.5 | 2050 | 18X35.5 | 2150 | | | | |
| 15000 | 16X35.5 | 2075 | 18X35.5 | 2180 | | | | | | |
| 18000 | 18X31.5 | 2150 | 18X35.5 | 2205 | | | | | | |
| 22000 | 18X41 | 2300 | | | | | | | | |

Ripple Current (mA, rms) at 105°C 120Hz

φ DxL(mm)

| WV (SV) Cap(μF) | 50 (63) | | 63 (79) | | 100 (125) | | 160 (200) | | 200 (250) | |
|--------------------|------------|--------|------------|--------|--------------|--------|--------------|--------|--------------|--------|
| | Size | Ripple | Size | Ripple | Size | Ripple | Size | Ripple | Size | Ripple |
| 0.1 | 5X11 | 1.3 | 5X11 | 1.3 | 5X11 | 1.9 | | | | |
| 0.22 | 5X11 | 2.9 | 5X11 | 2.9 | 5X11 | 3.4 | | | | |
| 0.33 | 5X11 | 4 | 5X11 | 4.5 | 5X11 | 5 | | | | |
| 0.47 | 5X11 | 7 | 5X11 | 7 | 5X11 | 10 | 5X11 | 11 | 5X11 | 12 |
| 1 | 5X11 | 13 | 5X11 | 13 | 5X11 | 15 | 5X11 | 17 | 6.3X11 | 17 |
| | | | | | | | 6.3X11 | 19 | | |
| 2.2 | 5X11 | 20 | 5X11 | 20 | 5X11 | 21 | 6.3X11 | 25 | 6.3X11 | 25 |
| 3.3 | 5X11 | 26 | 5X11 | 28 | 5X11 | 30 | 6.3X11 | 32 | 6.3X11 | 33 |
| | | | | | | | | | 8X11.5 | 35 |
| 4.7 | 5X11 | 32 | 5X11 | 32 | 5X11 | 35 | 6.3X11 | 38 | 6.3X11 | 42 |
| | | | | | | | 8X11.5 | 42 | 8X11.5 | 50 |
| 6.8 | 5X11 | 40 | 5X11 | 40 | 6.3X11 | 47 | 8X11.5 | 56 | 8X11.5 | 60 |
| | | | | | | | | | 10X12.5 | 63 |
| 10 | 5X11 | 48 | 5X11 | 42 | 6.3X11 | 56 | 8X11.5 | 63 | 8X11.5 | 78 |
| | | | 6.3X11 | 48 | 8X11.5 | 60 | 10X12.5 | 75 | 10X12.5 | 85 |
| 22 | 5X11 | 60 | 6.3X11 | 82 | 6.3X11 | 75 | 10X12.5 | 95 | 10X16 | 125 |
| | | | | | | | 10X16 | 105 | | |
| 33 | 6.3X11 | 70 | | | 8X11.5 | 90 | 10X20 | 120 | 10X20 | 130 |
| | 5X11 | 75 | 6.3X11 | 100 | 8X11.5 | 140 | 10X16 | 155 | 10X16 | 160 |
| 47 | | | | | | | | | 10X20 | 180 |
| | 6.3X11 | 90 | | | 10X12.5 | 155 | 10X20 | 170 | 13X20 | 190 |
| 68 | 6.3X11 | 115 | 6.3X11 | 125 | 8X16 | 165 | 10X20 | 180 | 13X20 | 220 |
| | | | 8X11.5 | 140 | 10X12.5 | 170 | 13X20 | 210 | | |
| 100 | 6.3X11 | 130 | 8X11.5 | 155 | 10X16 | 240 | 13X20 | 260 | 13X20 | 270 |
| | 8X11.5 | 155 | 10X12.5 | 185 | | | 13X25 | 280 | 13X25 | 300 |
| 120 | 8X11.5 | 200 | 10X12.5 | 230 | 10X20 | 280 | 13X25 | 310 | 13X25 | 320 |
| | | | | | | | 16X25 | 330 | 16X25 | 345 |
| 150 | 8X16 | 220 | 10X16 | 255 | 10X20 | 295 | 13X25 | 320 | 16X25 | 360 |
| | 10X12.5 | 225 | | | | | 16X25 | 350 | 16X31.5 | 390 |
| 180 | 10X12.5 | 245 | 10X16 | 270 | 13X20 | 340 | 16X25 | 470 | 16X25 | 440 |
| | | | | | 13X25 | 360 | | | 16X31.5 | 480 |
| 220 | 10X12.5 | 260 | 10X16 | 310 | 13X20 | 410 | 16X25 | 550 | 16X31.5 | 550 |
| | 10X16 | 280 | | | 13X25 | 480 | | | 16X35.5 | 560 |
| 330 | 10X12.5 | 345 | 10X16 | 375 | 13X25 | 520 | 16X31.5 | 560 | 16X35.5 | 670 |
| | 10X16 | 360 | 10X20 | 400 | | | 16X35.5 | 580 | 18X31.5 | 690 |
| 470 | 10X16 | 450 | 13X20 | 580 | 16X25 | 690 | 18X31.5 | 660 | 18X35.5 | 750 |
| | 10X20 | 470 | | | | | 18X35.5 | 700 | 18X41 | 810 |
| 560 | 10X20 | 600 | 13X20 | 690 | 16X25 | 820 | 18X35.5 | 810 | 18X41 | 840 |
| | 13X20 | 650 | | | 16X31.5 | 860 | 18X41 | 860 | 22X41 | 925 |
| 680 | 13X20 | 660 | 13X25 | 770 | 16X35.5 | 900 | | | 18X51 | 940 |
| | 13X20 | 700 | 16X25 | 880 | 16X35.5 | 920 | | | | |
| 820 | 13X25 | 770 | | | 18X31.5 | 950 | | | | |
| | 13X25 | 850 | 16X25 | 920 | 18X35.5 | 1020 | | | | |
| 1000 | 13X25 | 890 | 16X31.5 | 1185 | 18X41 | 1200 | | | | |
| | 16X25 | 1000 | | | | | | | | |
| 1200 | 16X25 | 1150 | 16X35.5 | 1200 | | | | | | |
| 1500 | 16X31.5 | 1300 | 18X31.5 | 1350 | | | | | | |
| 1800 | 16X35.5 | 1480 | | | | | | | | |
| 2200 | 16X35.5 | 1530 | | | | | | | | |
| 2700 | 18X35.5 | 1590 | | | | | | | | |
| 3300 | 18X35.5 | 1750 | | | | | | | | |

Ripple Current (mA, rms) at 105°C 120Hz

φ DxL(mm)

| WV (SV) Cap(μF) | 250 (300) | | 350 (400) | | 400 (450) | | 420 (470) | | 450 (500) | |
|--------------------|--------------|--------|--------------|--------|--------------|--------|--------------|--------|--------------|--------|
| | Size | Ripple | Size | Ripple | Size | Ripple | Size | Ripple | Size | Ripple |
| 0.47 | 5X11 | 8 | 6.3X11 | 13 | 6.3X11 | 14 | 6.3X11 | 14 | 6.3X11 | 14 |
| 1 | 6.3X11 | 16 | 6.3X11 | 16 | 6.3X11 | 17 | 8X11.5 | 20 | 8X11.5 | 20 |
| 2.2 | 6.3X11 | 20 | 8X11.5 | 31 | 6.3X15 | 34 | 8X11.5 | 35 | 10X12.5 | 35 |
| | 8X11.5 | 25 | | | 8X11.5 | 35 | | | | |
| 3.3 | 8X11.5 | 33 | 8X11.5 | 34 | 6.3X15 | 35 | 10X12.5 | 42 | 8X11.5 | 32 |
| | | | | | 8X11.5 | 36 | | | 10X12.5 | 38 |
| | | | 10X12.5 | 38 | 10X12.5 | 41 | | | 10X16 | 42 |
| 4.7 | 8X11.5 | 46 | 8X11.5 | 47 | 8X11.5 | 48 | 10X12.5 | 58 | 8X16 | 44 |
| | | | | | 10X12.5 | 55 | | | | |
| | 10X12.5 | 50 | 10X12.5 | 52 | 10X16 | 65 | 10X16 | 61 | 10X12.5 | 45 |
| 6.8 | | | | | | | | | 10X16 | 50 |
| | 8X11.5 | 60 | 10X12.5 | 79 | 8X14 | 75 | 10X16 | 84 | 10X16 | 65 |
| | 10X12.5 | 70 | | | 8X16 | 80 | | | 10X20 | 72 |
| 10 | | | | | 10X16 | 90 | | | | |
| | 8X11.5 | 68 | 10X16 | 87 | 10X16 | 110 | 10X20 | 96 | 10X20 | 92 |
| | 10X12.5 | 80 | 10X20 | 92 | 10X20 | 125 | 10X20 | 112 | 13X20 | 98 |
| 22 | 10X16 | 110 | 13X20 | 160 | 13X20 | 170 | | | 13X20 | 165 |
| | 10X20 | 125 | | | | | | | | |
| 33 | 13X20 | 150 | 13X25 | 170 | 13X25 | 190 | 13X25 | 185 | 13X25 | 180 |
| | 13X20 | 190 | 13X20 | 180 | 13X20 | 235 | | | 16X25 | 210 |
| 47 | | | 13X25 | 200 | 13X25 | 260 | 16X25 | 230 | | |
| | 13X20 | 230 | 16X25 | 245 | 16X25 | 300 | 16X31.5 | 310 | 16X31.5 | 340 |
| | 13X25 | 240 | 16X31.5 | 260 | 16X31.5 | 360 | | | 16X35.5 | 380 |
| 56 | | | | | | | | | 18X25 | 350 |
| | 13X20 | 255 | 16X25 | 330 | 16X25 | 360 | 16X35.5 | 390 | 16X31.5 | 370 |
| | 13X25 | 280 | | | 16X31.5 | 400 | | | 16X35.5 | 400 |
| 68 | | | | | | | | | 18X25 | 370 |
| | 13X25 | 310 | 16X31.5 | 370 | 18X25 | 440 | 18X31.5 | 470 | 16X35.5 | 450 |
| | | | | | 16X35.5 | 480 | | | 18X31.5 | 460 |
| 82 | 16X25 | 355 | | | 18X31.5 | 500 | | | 18X35.5 | 470 |
| | 16X25 | 370 | 16X35.5 | 385 | 18X25 | 470 | 18X35.5 | 500 | 18X31.5 | 465 |
| 100 | | | | | 18X31.5 | 520 | | | 18X35.5 | 480 |
| | 16X25 | 375 | 18X31.5 | 390 | 18X31.5 | 530 | 18X35.5 | 555 | 18X35.5 | 525 |
| | 16X31.5 | 395 | | | 18X35.5 | 550 | | | 18X41 | 560 |
| 120 | 16X31.5 | 420 | 16X41 | 400 | 18X31.5 | 550 | | | 18X41 | 580 |
| | | | | | 18X35.5 | 580 | | | 22X41 | 650 |
| 150 | 16X35.5 | 430 | 18X35.5 | 400 | 18X35.5 | 580 | 18X41 | 630 | | |
| | 16X35.5 | 460 | 18X41 | 420 | 18X35.5 | 610 | 18X41 | 660 | 18X45 | 690 |
| 180 | 18X31.5 | 460 | | | 18X41 | 650 | | | | |
| | 18X31.5 | 465 | 18X41 | 430 | 18X45 | 700 | 18X45 | 680 | | |
| 220 | 18X35.5 | 470 | | | | | | | | |
| | 18X35.5 | 650 | 22X41 | 500 | | | | | | |
| 330 | 18X41 | 700 | | | | | | | | |
| | 18X45 | 720 | | | | | | | | |
| | 22X41 | 780 | | | | | | | | |

Ripple Current (mA, rms) at 105°C 120Hz