

## 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



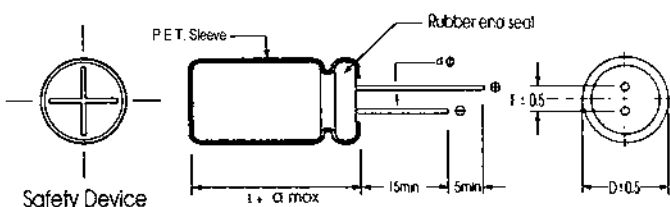
### Specifications

| 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)<br>After 1 minute whichever is greater measured with rated working voltage applied.  | I ≤ 0.03 CV (µA)<br>After 1 minute with rated working voltage applied. |                      |     |     |     |     |     |              |               |     |               |    |    |    |    |    |    |   |   |               |   |   |   |   |   |   |   |
| Dissipation Factor<br>(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 &gt; 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<br>(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 &gt; 1000 µF, add 0.5 per another 1000 µF for -25°C/+20°C<br/>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>   |  |                      |     |     |     |     |     |              |               |     |               |    |    |    |    |    |    |   |   |               |   |   |   |   |   |   |   |
|  | <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<br>0.5 | L ≥ 20<br>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)<br>Cap(μF) | 6.3<br>(8) |        | 10<br>(13) |        | 16<br>(20) |        | 25<br>(32) |        | 35<br>(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)<br>Cap(μF) | 50<br>(63) |        | 63<br>(79) |        | 100<br>(125) |        | 160<br>(200) |        | 200<br>(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)<br>Cap(μF) | 250<br>(300) |        | 350<br>(400) |        | 400<br>(450) |        | 420<br>(470) |        | 450<br>(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

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