

# ALUMINUM ELECTROLYTIC CAPACITORS



## EY Series

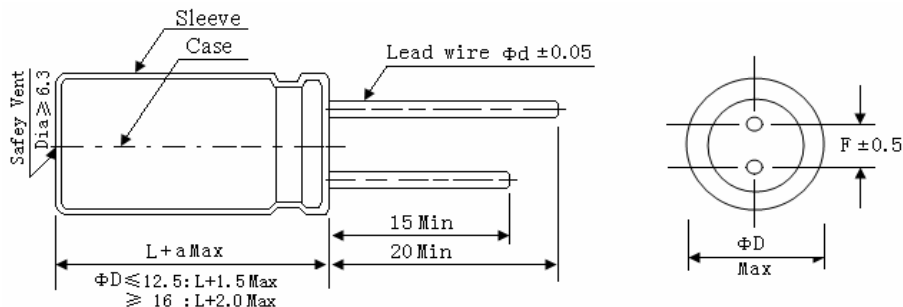
Miniaturized, Low E.S.R and low impedance.  
Suitable for use in high ripple current capability.  
Load life 4,000~10,000 hours at 105°C.



### SPECIFICATIONS

| Item   | Performance Characteristics   |                    |                             |                          |                               |                 |                   |                    |                             |        |           |       |                          |                               |          |       |       |                 |                   |       |       |
|--|---|--------------------|-----------------------------|--------------------------|-------------------------------|-----------------|-------------------|--------------------|-----------------------------|--------|-----------|-------|--------------------------|-------------------------------|----------|-------|-------|-----------------|-------------------|-------|-------|
| Category Temperature Range   | -40 ~ +105°C  |                    |                             |                          |                               |                 |                   |                    |                             |        |           |       |                          |                               |          |       |       |                 |                   |       |       |
| Working Voltage Range  | 6.3 ~ 100Vdc  |                    |                             |                          |                               |                 |                   |                    |                             |        |           |       |                          |                               |          |       |       |                 |                   |       |       |
| Capacitance Range  | 10 ~ 10,000 µF  |                    |                             |                          |                               |                 |                   |                    |                             |        |           |       |                          |                               |          |       |       |                 |                   |       |       |
| Capacitance Tolerance  | ±20% (at 25°C and 120Hz)  |                    |                             |                          |                               |                 |                   |                    |                             |        |           |       |                          |                               |          |       |       |                 |                   |       |       |
| Dissipation Factor (tanδ)<br>(at 25°C, 120Hz)                            | <table border="1"> <tr> <td>Rated Voltage (V)</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>tanδ(Max)</td> <td>0.22</td> <td>0.19</td> <td>0.16</td> <td>0.14</td> <td>0.12</td> <td>0.10</td> <td>0.09</td> <td>0.08</td> </tr> </table>   | Rated Voltage (V)  | 6.3                         | 10                       | 16                            | 25              | 35                | 50                 | 63                          | 100    | tanδ(Max) | 0.22  | 0.19                     | 0.16                          | 0.14     | 0.12  | 0.10  | 0.09            | 0.08              |       |       |
|  | Rated Voltage (V)   | 6.3                | 10                          | 16                       | 25                            | 35              | 50                | 63                 | 100                         |        |           |       |                          |                               |          |       |       |                 |                   |       |       |
| tanδ(Max)  | 0.22  | 0.19               | 0.16                        | 0.14                     | 0.12                          | 0.10            | 0.09              | 0.08               |                             |        |           |       |                          |                               |          |       |       |                 |                   |       |       |
| The above values should be increased by 0.02 for every additional 1000µF |   |                    |                             |                          |                               |                 |                   |                    |                             |        |           |       |                          |                               |          |       |       |                 |                   |       |       |
| Leakage Current  | I=0.01CV or 3 µA, whichever is greater.<br>I : Leakage current (µA) C : Rated capacitance (µF) V : Rated voltage (V)<br>Impress the rated voltage for 2 minutes.  |                    |                             |                          |                               |                 |                   |                    |                             |        |           |       |                          |                               |          |       |       |                 |                   |       |       |
| Endurance  | The following requirements shall be satisfied when the capacitor are restored to 25°C after the rated voltage applied for 4,000~10,000 hours at 105°C.  |                    |                             |                          |                               |                 |                   |                    |                             |        |           |       |                          |                               |          |       |       |                 |                   |       |       |
|  | <table border="1"> <thead> <tr> <th rowspan="2"></th> <th rowspan="2">Size</th> <th colspan="2">Life time (hours)</th> </tr> <tr> <th>(6.3~10WV)</th> <th>(16~100WV)</th> </tr> </thead> <tbody> <tr> <td>Capacitance change</td> <td>≅ ±25% of the initial value</td> <td>≅ 6.3Φ</td> <td>4,000</td> <td>5,000</td> </tr> <tr> <td>Dissipation factor(tanδ)</td> <td>≅ 200% of the specified value</td> <td>8 ~ 10 Φ</td> <td>6,000</td> <td>7,000</td> </tr> <tr> <td>Leakage current</td> <td>≅ specified value</td> <td>12.5Φ</td> <td>8,000</td> <td>10,000</td> </tr> </tbody> </table> |                    | Size                        | Life time (hours)        |                               | (6.3~10WV)      | (16~100WV)        | Capacitance change | ≅ ±25% of the initial value | ≅ 6.3Φ | 4,000     | 5,000 | Dissipation factor(tanδ) | ≅ 200% of the specified value | 8 ~ 10 Φ | 6,000 | 7,000 | Leakage current | ≅ specified value | 12.5Φ | 8,000 |
|  | Size  |                    |                             | Life time (hours)        |                               |                 |                   |                    |                             |        |           |       |                          |                               |          |       |       |                 |                   |       |       |
|  |   | (6.3~10WV)         | (16~100WV)                  |                          |                               |                 |                   |                    |                             |        |           |       |                          |                               |          |       |       |                 |                   |       |       |
| Capacitance change   | ≅ ±25% of the initial value   | ≅ 6.3Φ             | 4,000                       | 5,000                    |                               |                 |                   |                    |                             |        |           |       |                          |                               |          |       |       |                 |                   |       |       |
| Dissipation factor(tanδ)   | ≅ 200% of the specified value   | 8 ~ 10 Φ           | 6,000                       | 7,000                    |                               |                 |                   |                    |                             |        |           |       |                          |                               |          |       |       |                 |                   |       |       |
| Leakage current  | ≅ specified value   | 12.5Φ              | 8,000                       | 10,000                   |                               |                 |                   |                    |                             |        |           |       |                          |                               |          |       |       |                 |                   |       |       |
| Shelf Life   | The following requirements shall be satisfied when the capacitor are restored to 25°C after exposing them for 1,000 hours at 105°C without voltage applied.   |                    |                             |                          |                               |                 |                   |                    |                             |        |           |       |                          |                               |          |       |       |                 |                   |       |       |
|  | <table border="1"> <tbody> <tr> <td>Capacitance change</td> <td>≅ ±25% of the initial value</td> </tr> <tr> <td>Dissipation factor(tanδ)</td> <td>≅ 200% of the specified value</td> </tr> <tr> <td>Leakage current</td> <td>≅ specified value</td> </tr> </tbody> </table>   | Capacitance change | ≅ ±25% of the initial value | Dissipation factor(tanδ) | ≅ 200% of the specified value | Leakage current | ≅ specified value |                    |                             |        |           |       |                          |                               |          |       |       |                 |                   |       |       |
| Capacitance change   | ≅ ±25% of the initial value   |                    |                             |                          |                               |                 |                   |                    |                             |        |           |       |                          |                               |          |       |       |                 |                   |       |       |
| Dissipation factor(tanδ)   | ≅ 200% of the specified value   |                    |                             |                          |                               |                 |                   |                    |                             |        |           |       |                          |                               |          |       |       |                 |                   |       |       |
| Leakage current  | ≅ specified value   |                    |                             |                          |                               |                 |                   |                    |                             |        |           |       |                          |                               |          |       |       |                 |                   |       |       |
| Others   | Conforms to JIS-C-5101-4 (1998), characteristic W.  |                    |                             |                          |                               |                 |                   |                    |                             |        |           |       |                          |                               |          |       |       |                 |                   |       |       |

### DIMENSIONS (mm)



|    |             |     |     |     |             |             |     |             |
|----|-------------|-----|-----|-----|-------------|-------------|-----|-------------|
| φD | 5           | 6.3 | 8   | 10  | 12.5 L < 35 | 12.5 L ≥ 35 | 16  | 18          |
| φD | φD +0.5 Max |     |     |     |             |             |     | φD +1.0 Max |
| φd | 0.5         | 0.5 | 0.6 | 0.6 | 0.6         | 0.8         | 0.8 | 0.8         |
| F  | 2.0         | 2.5 | 3.5 | 5.0 | 5.0         |             | 7.5 | 7.5         |

# ALUMINUM ELECTROLYTIC CAPACITORS



## EY Series

Case size & Permissible rated ripple current:

| Nominal capacitance (uF) | 6.3V                |                           |                             |  | 10V                 |                            |                             |  |
|--------------------------|---------------------|---------------------------|-----------------------------|--|---------------------|----------------------------|-----------------------------|--|
|                          | Case size DΦ×L (mm) | Max impd @25°C 100kHz (Ω) | Max impd. @-10°C 100kHz (Ω) | Max. Rated ripple current @105°C 100kHz (mA rms) | Case size DΦ×L (mm) | Max impd. @25°C 100kHz (Ω) | Max impd. @-10°C 100kHz (Ω) | Max. Rated ripple current @105°C 100kHz (mA rms) |
| 100                      |                     |                           |                             |  | 5×11                | 0.580                      | 2.300                       | 215  |
| 150                      | 5×11                | 0.570                     | 2.300                       | 210  | 5×11                | 0.580                      | 2.300                       | 230  |
| 220                      | 6.3×11              | 0.250                     | 0.900                       | 320  | 6.3×11              | 0.220                      | 0.870                       | 340  |
| 330                      | 6.3×11              | 0.210                     | 0.870                       | 340  | 6.3×11              | 0.220                      | 0.870                       | 380  |
| 470                      | 8×12                | 0.150                     | 0.580                       | 345  | 8×12                | 0.130                      | 0.520                       | 640  |
| 680                      | 8×12                | 0.130                     | 0.520                       | 645  | 8×16                | 0.086                      | 0.350                       | 845  |
|                          |                     | 0.080                     |                             |  | 10×13               | 0.080                      | 0.310                       | 865  |
| 820                      | 10×13               | 0.080                     | 0.320                       | 865  | 10×16               | 0.070                      | 0.280                       | 1015   |
| 1000                     | 8×16                | 0.085                     | 0.350                       | 870  | 8×20                | 0.068                      | 0.270                       | 1050   |
|                          |                     |                           |                             |  | 10×16               | 0.060                      | 0.240                       | 1215   |
| 1200                     | 8×20                | 0.071                     | 0.260                       | 1050   | 10×20               | 0.045                      | 0.180                       | 1410   |
|                          | 10×16               | 0.062                     | 0.240                       | 1215   |                     |                            |                             |  |
| 1500                     | 10×20               | 0.045                     | 0.180                       | 1410   | 10×25               | 0.041                      | 0.170                       | 1610   |
|                          |                     |                           |                             |  | 12.5×16             | 0.049                      | 0.160                       | 1450   |
| 1800                     | 12.5×16             | 0.048                     | 0.160                       | 1460   | 12.5×20             | 0.039                      | 0.150                       | 1710   |
| 2200                     | 10×25               | 0.042                     | 0.170                       | 1650   | 10×30               | 0.030                      | 0.120                       | 1920   |
|                          |                     | 0.030                     |                             |  | 12.5×20             | 0.035                      | 0.120                       | 1910   |
|                          |                     |                           |                             |  | 16×15               | 0.042                      | 0.120                       | 1900   |
| 2700                     | 10×30               | 0.030                     | 0.120                       | 1900   | 18×15               | 0.042                      | 0.110                       | 2220   |
|                          | 16×15               | 0.041                     | 0.120                       | 1945   |                     |                            |                             |  |
| 3300                     | 12.5×20             | 0.034                     | 0.120                       | 1900   | 12.5×25             | 0.026                      | 0.089                       | 2230   |
| 3900                     | 12.5×25             | 0.026                     | 0.088                       | 2240   | 12.5×30             | 0.023                      | 0.078                       | 2660   |
|                          | 18×15               | 0.042                     | 0.11                        | 2210   | 16×22               | 0.026                      | 0.078                       | 2540   |
| 4700                     | 12.5×30             | 0.023                     | 0.078                       | 2650   | 12.5×35             | 0.020                      | 0.065                       | 2890   |
| 5600                     | 12.5×35             | 0.020                     | 0.065                       | 2890   | 12.5×40             | 0.016                      | 0.055                       | 3360   |
|                          | 16×22               | 0.026                     | 0.077                       | 2540   | 16×25               | 0.020                      | 0.060                       | 2940   |
|                          |                     |                           |                             |  | 18×20               | 0.025                      | 0.066                       | 2870   |
| 6800                     | 12.5×40             | 0.016                     | 0.055                       | 3350   | 16×32               | 0.016                      | 0.050                       | 3460   |
|                          | 16×25               | 0.020                     | 0.060                       | 2940   | 18×25               | 0.018                      | 0.049                       | 3150   |
|                          | 18×20               | 0.025                     | 0.066                       | 2870   |                     |                            |                             |  |
| 8200                     | 16×32               | 0.016                     | 0.050                       | 3450   | 16×35               | 0.015                      | 0.044                       | 3610   |
|                          |                     |                           |                             |  | 18×32               | 0.015                      | 0.040                       | 4180   |
| 10000                    | 16×35               | 0.014                     | 0.044                       | 3620   | 16×40               | 0.013                      | 0.038                       | 4090   |
|                          | 18×25               | 0.018                     | 0.049                       | 3150   | 18×35               | 0.012                      | 0.038                       | 4150   |
| 12000                    | 16×40               | 0.012                     | 0.038                       | 4090   | 18×40               | 0.011                      | 0.032                       | 4290   |
|                          | 18×32               | 0.014                     | 0.040                       | 4180   |                     |                            |                             |  |
| 15000                    | 18×35               | 0.013                     | 0.038                       | 4230   |                     |                            |                             |  |
| 18000                    | 18×40               | 0.012                     | 0.032                       | 4290   |                     |                            |                             |  |

# ALUMINUM ELECTROLYTIC CAPACITORS



## EY Series

Case size & Permissible rated ripple current:

| Nominal capacitance (uF) | 16V                 |                            |                             |  | 25V                 |                            |                             |  |
|--------------------------|---------------------|----------------------------|-----------------------------|--|---------------------|----------------------------|-----------------------------|--|
|                          | Case size DΦ×L (mm) | Max impd. @25°C 100kHz (Ω) | Max impd. @-10°C 100kHz (Ω) | Max. Rated ripple current @105°C 100kHz (mA rms) | Case size DΦ×L (mm) | Max impd. @25°C 100kHz (Ω) | Max imapd @-10°C 100kHz (Ω) | Max. Rated ripple current @105°C 100kHz (mA rms) |
| 10                       | 5×11                | 1.100                      | 3.02                        | 96   | 5×11                | 1.100                      | 3.02                        | 100  |
| 22                       | 5×11                | 0.750                      | 2.80                        | 120  | 5×11                | 0.700                      | 2.80                        | 140  |
| 47                       | 5×11                | 0.600                      | 2.60                        | 100  | 5×11                | 0.570                      | 2.30                        | 120  |
| 56                       | 5×11                | 0.570                      | 2.30                        | 220  | 5×11                | 0.570                      | 2.30                        | 240  |
| 100                      | 5×11                | 0.350                      | 0.76                        | 260  | 6.3×11              | 0.210                      | 0.87                        | 340  |
|                          | 6.3×11              | 0.210                      | 0.82                        | 310  |                     |                            |                             |  |
| 120                      | 6.3×11              | 0.210                      | 0.87                        | 340  |                     |                            |                             |  |
| 220                      | 6.3×11              | 0.150                      | 0.65                        | 450  | 8×12                | 0.120                      | 0.52                        | 650  |
|                          | 8×12                | 0.190                      | 0.85                        | 760  |                     |                            |                             |  |
| 330                      | 8×12                | 0.120                      | 0.52                        | 650  | 8×16                | 0.087                      | 0.35                        | 850  |
|                          |                     |                            |                             |  | 10×13               | 0.081                      | 0.32                        | 870  |
| 470                      | 8×16                | 0.086                      | 0.35                        | 840  | 8×20                | 0.070                      | 0.27                        | 1050   |
|                          | 10×13               | 0.080                      | 0.32                        | 865  | 10×16               | 0.060                      | 0.24                        | 1210   |
| 680                      | 8×20                | 0.069                      | 0.27                        | 1060   | 10×20               | 0.045                      | 0.18                        | 1410   |
|                          | 10×16               | 0.060                      | 0.24                        | 1210   | 12.5×16             | 0.049                      | 0.16                        | 1460   |
| 820                      | 10×20               | 0.052                      | 0.22                        | 1310   | 10×25               | 0.041                      | 0.17                        | 1660   |
| 1000                     | 10×20               | 0.045                      | 0.18                        | 1410   | 10×30               | 0.030                      | 0.12                        | 1920   |
|                          | 12.5×16             | 0.050                      | 0.16                        | 1450   | 12.5×20             | 0.034                      | 0.12                        | 1910   |
|                          |                     |                            |                             |  | 16×15               | 0.042                      | 0.12                        | 1940   |
| 1200                     | 10×25               | 0.043                      | 0.17                        | 1650   | 18×15               | 0.043                      | 0.11                        | 2220   |
| 1500                     | 10×30               | 0.030                      | 0.12                        | 1920   | 12.5×25             | 0.026                      | 0.089                       | 2240   |
|                          | 12.5×20             | 0.035                      | 0.12                        | 1910   |                     |                            |                             |  |
|                          | 16×15               | 0.042                      | 0.12                        | 1940   |                     |                            |                             |  |
| 1800                     | 12.5×25             | 0.028                      | 0.095                       | 2140   | 12.5×30             | 0.024                      | 0.078                       | 2660   |
|                          |                     |                            |                             |  | 16×22               | 0.026                      | 0.078                       | 2540   |
| 2200                     | 12.5×25             | 0.026                      | 0.089                       | 2240   | 12.5×35             | 0.020                      | 0.065                       | 2890   |
|                          | 18×15               | 0.042                      | 0.11                        | 2220   | 18×20               | 0.025                      | 0.066                       | 2870   |
| 2700                     | 12.5×30             | 0.023                      | 0.077                       | 2650   | 12.5×40             | 0.016                      | 0.056                       | 3360   |
|                          | 16×22               | 0.026                      | 0.078                       | 2540   | 16×25               | 0.021                      | 0.060                       | 2940   |
| 3300                     | 12.5×35             | 0.020                      | 0.066                       | 2890   | 16×30               | 0.016                      | 0.050                       | 3460   |
|                          |                     |                            |                             |  | 18×25               | 0.018                      | 0.048                       | 3150   |
| 3900                     | 12.5×40             | 0.016                      | 0.056                       | 3350   | 16×35               | 0.014                      | 0.043                       | 3620   |
|                          | 16×25               | 0.021                      | 0.060                       | 2930   | 18×32               | 0.015                      | 0.040                       | 4180   |
|                          |                     |                            |                             |  |                     |                            |                             |  |
| 4700                     | 16×32               | 0.016                      | 0.050                       | 3450   | 16×40               | 0.012                      | 0.038                       | 4090   |
|                          | 18×25               | 0.018                      | 0.049                       | 3150   | 18×35               | 0.013                      | 0.038                       | 4230   |
| 5600                     | 16×35               | 0.015                      | 0.044                       | 3620   | 18×40               | 0.011                      | 0.032                       | 4290   |
|                          | 18×32               | 0.015                      | 0.040                       | 4180   |                     |                            |                             |  |
| 6800                     | 16×40               | 0.012                      | 0.038                       | 4080   |                     |                            |                             |  |
| 8200                     | 18×35               | 0.014                      | 0.038                       | 4230   |                     |                            |                             |  |
| 18000                    | 18×40               | 0.011                      | 0.032                       | 4290   |                     |                            |                             |  |

# ALUMINUM ELECTROLYTIC CAPACITORS



## EY Series

Case size & Permissible rated ripple current:

| Nominal capacitance (uF) | 35V                 |                           |                            |  | 50V                 |                           |                            |  |
|--------------------------|---------------------|---------------------------|----------------------------|--|---------------------|---------------------------|----------------------------|--|
|                          | Case size DΦ×L (mm) | Max impd @25°C 100kHz (Ω) | Max impd @-10°C 100kHz (Ω) | Max. Rated ripple current @105°C 100kHz (mA rms) | Case size DΦ×L (mm) | Max impd @25°C 100kHz (Ω) | Max impd @-10°C 100kHz (Ω) | Max. Rated ripple current @105°C 100kHz (mA rms) |
| 10                       |                     |                           |                            |  | 5×11                | 1.300                     | 2.800                      | 135  |
| 22                       |                     |                           |                            |  | 5×11                | 0.700                     | 2.500                      | 180  |
| 33                       | 5×11                | 0.560                     | 2.300                      | 220  | 6.3×11              | 0.600                     | 1.900                      | 205  |
| 47                       | 6.3×11              | 0.350                     | 1.400                      | 280  | 6.3×11              | 0.380                     | 1.500                      | 220  |
| 56                       | 6.3×11              | 0.210                     | 0.860                      | 340  | 8×12                | 0.300                     | 1.200                      | 300  |
| 100                      | 8×12                | 0.150                     | 0.560                      | 510  | 8×12                | 0.160                     | 0.670                      | 560  |
| 150                      | 8×12                | 0.130                     | 0.520                      | 650  | 8×16                | 0.120                     | 0.480                      | 740  |
| 220                      | 8×16                | 0.086                     | 0.350                      | 850  | 10×16               | 0.083                     | 0.340                      | 1050   |
| 330                      | 10×16               | 0.060                     | 0.240                      | 1210   | 10×25               | 0.053                     | 0.220                      | 1450   |
| 470                      | 10×20               | 0.045                     | 0.180                      | 1410   | 12.5×20             | 0.044                     | 0.150                      | 1670   |
| 560                      | 10×25               | 0.041                     | 0.160                      | 1650   | 12.5×25             | 0.033                     | 0.110                      | 1950   |
| 680                      | 10×30               | 0.030                     | 0.120                      | 1920   | 12.5×30             | 0.030                     | 0.100                      | 2320   |
| 820                      | 12.5×25             | 0.029                     | 0.095                      | 2050   | 12.5×35             | 0.023                     | 0.081                      | 2520   |
| 1000                     | 12.5×25             | 0.028                     | 0.088                      | 2230   | 16×25               | 0.025                     | 0.075                      | 2555   |
| 1200                     | 12.5×30             | 0.023                     | 0.078                      | 2660   | 16×32               | 0.021                     | 0.066                      | 3020   |
| 1500                     | 125×35              | 0.020                     | 0.065                      | 2880   | 16×36               | 0.018                     | 0.056                      | 3150   |
| 2200                     | 16×32               | 0.016                     | 0.056                      | 3350   | 18×36               | 0.017                     | 0.046                      | 3690   |
| 2700                     | 16×36               | 0.015                     | 0.044                      | 3620   | 18×40               | 0.014                     | 0.038                      | 3810   |
| 3300                     | 16×40               | 0.013                     | 0.038                      | 4090   |                     |                           |                            |  |
| 3900                     | 18×40               | 0.012                     | 0.033                      | 4290   |                     |                           |                            |  |

| Nominal capacitance (uF) | 63V                 |                           |                            |  | 100V                |                           |                            |  |
|--------------------------|---------------------|---------------------------|----------------------------|--|---------------------|---------------------------|----------------------------|--|
|                          | Case size DΦ×L (mm) | Max impd @25°C 100kHz (Ω) | Max impd @-10°C 100kHz (Ω) | Max. Rated ripple current @105°C 100kHz (mA rms) | Case size DΦ×L (mm) | Max impd @25°C 100kHz (Ω) | Max impd @-10°C 100kHz (Ω) | Max. Rated ripple current @105°C 100kHz (mA rms) |
| 6.8                      |                     |                           |                            |  | 5×11                | 2.200                     | 9.200                      | 56   |
| 15                       | 5×11                | 2.200                     | 9.200                      | 56   | 6.3×11              | 1.200                     | 5.000                      | 120  |
| 33                       | 6.3×11              | 1.200                     | 5.000                      | 120  | 8×16                | 0.580                     | 3.200                      | 160  |
| 47                       | 8×12                | 0.680                     | 3.100                      | 190  | 10×12               | 0.430                     | 1.800                      | 290  |
| 68                       | 8×12                | 0.600                     | 2.900                      | 245  | 10×16               | 0.300                     | 1.500                      | 350  |
| 100                      | 10×16               | 0.350                     | 1.800                      | 320  | 10×25               | 0.200                     | 0.840                      | 535  |
| 120                      | 10×16               | 0.300                     | 1.500                      | 355  | 10×30               | 0.150                     | 0.710                      | 665  |
| 180                      | 10×20               | 0.200                     | 0.940                      | 470  | 12.5×25             | 0.120                     | 0.450                      | 790  |
| 220                      | 10×25               | 0.200                     | 0.840                      | 535  | 12.5×30             | 0.100                     | 0.420                      | 905  |
| 330                      | 12.5×25             | 0.120                     | 0.450                      | 790  | 12.5×40             | 0.070                     | 0.300                      | 1190   |
| 470                      | 12.5×30             | 0.100                     | 0.420                      | 910  | 16×36               | 0.045                     | 0.170                      | 1790   |
| 560                      | 12.5×35             | 0.082                     | 0.350                      | 1050   | 16×40               | 0.040                     | 0.150                      | 2030   |
| 680                      | 12.5×40             | 0.070                     | 0.300                      | 1190   | 18×36               | 0.040                     | 0.150                      | 1790   |
| 820                      | 16×32               | 0.053                     | 0.200                      | 1580   | 18×40               | 0.036                     | 0.130                      | 2340   |
| 1000                     | 16×36               | 0.045                     | 0.170                      | 1790   |                     |                           |                            |  |
| 1200                     | 16×40               | 0.040                     | 0.150                      | 2020   |                     |                           |                            |  |
| 1500                     | 18×40               | 0.035                     | 0.130                      | 2340   |                     |                           |                            |  |

### RIPPLE CURRENT MULTIPLIERS

#### Frequency Multipliers

| Vdc       | Cap.(uF)     | Frequency (Hz) |      |      |      |
|-----------|--------------|----------------|------|------|------|
|           |              | 120            | 1K   | 10K  | 100K |
| 6.3 ~ 100 | 10 ~ 68      | 0.30           | 0.55 | 0.80 | 1.00 |
|           | 82 ~ 220     | 0.40           | 0.60 | 0.85 | 1.00 |
|           | 330 ~ 820    | 0.50           | 0.65 | 0.90 | 1.00 |
|           | 1000 ~ 10000 | 0.60           | 0.70 | 0.95 | 1.00 |