



**FEATURES**

- High ripple current.
- Two or three dimensions with same ratings.
- Aluminum case designed explosion-proof vent.
- Best for switching power supplies.
- Load life with ripple current : 105°C 5,000 hours.
- AEC-Q200 compliant. Please contact sales department for automotive specific PN.



**SPECIFICATIONS**

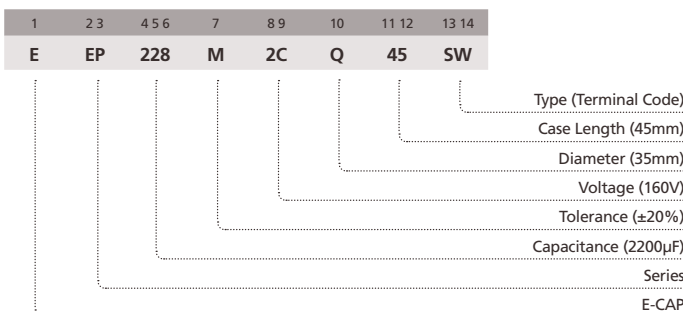
| Item  | Performance Characteristics  |  |         |               |   |         |         |
|---|--|--|---------|---------------|---|---------|---------|
| Operating Temperature Range   | -40 to +105°C  |  |         | -25 to +105°C |   |         |         |
| Rated Working Voltage Range   | 10 to 100V   |  |         | 160 to 550V   |   |         |         |
| Nominal Capacitance Range   | 82 to 47000µF  |  |         |               |   |         |         |
| Capacitance Tolerance   | ±20% at 120Hz, +20°C   |  |         |               |   |         |         |
| Leakage Current   | I ≤ 3√CV (µA)<br>after 5 minutes application of rated working voltage at +20°C   |  |         |               |   |         |         |
| tan δ (120Hz, +20°C)  | Working Voltage (V)  | 10   | 16      | 25            | 35  | 50      | 63~100  |
|   | tan δ (max.)   | 0.60   | 0.45    | 0.30          | 0.25  | 0.20    | 0.15    |
|   | Working Voltage (V)  | 160~400  | 420~550 |               |   |         |         |
|   | tan δ (max.)   | 0.15   | 0.20    |               |   |         |         |
| For capacitance value >33000µF, add following calculated value: $\frac{(\text{rated capacitance}) - 33000\mu\text{F}}{10000\mu\text{F}} \times 0.1$ |  |  |         |               |   |         |         |
| Low Temperature Characteristics   | Impedance ratio max. at 120Hz  |  |         |               |   |         |         |
|   | Working Voltage (V)  | 10   | 16      | 25            | 35  | 50      | 63~100  |
|   | Z-25°C / Z+20°C  | 6  | 6       | 6             | 6   | 4       | 3       |
|   | Z-40°C / Z+20°C  | 15   | 15      | 15            | 15  | 15      | 15      |
| High Temperature Loading  | Working Voltage (V)  | 160  | 250     | 315           | 350   | 400~420 | 450~550 |
|   | Z-25°C / Z+20°C  | 8  | 8       | 8             | 8   | 8       | 8       |
| Shelf Life  | Test time  | : 5,000 hours  |         |               | Post test requirements at +20°C                         |         |         |
|   | Test temperature   | : +105°C   |         |               | Leakage current : ≤Initial specified value              |         |         |
| Industrial Standard   | Test conditions  | : Rated DC working voltage with rated ripple current |         |               | Cap. change : within ±20% of the initial measured value |         |         |
|   |  |  |         |               | tan δ : ≤200% of the initial specified value            |         |         |
| Shelf Life  | At +105°C no voltage applied after 1,000 hours and then being stabilized at +20°C the capacitors shall meet the following limits |  |         |               |   |         |         |
|   | Leakage current  | : ≤Initial specified value                           |         |               |   |         |         |
|   | Cap. change  | : within ±15% of the initial measured value          |         |               |   |         |         |
|   | tan δ  | : ≤150% of the initial specified value               |         |               |   |         |         |
| Industrial Standard   | JIS C - 5101-4 (IEC 60384-4)   |  |         |               |   |         |         |

**RIPPLE CURRENT MULTIPLIER**

**Frequency Coefficient**

| Coefficient   | 60   | 120  | 1k   | 10k~50k |
|---------------|------|------|------|---------|
| Rated Voltage |      |      |      |         |
| 10~100V       | 0.90 | 1.00 | 1.15 | 1.25    |
| 160~250V      | 0.80 | 1.00 | 1.25 | 1.47    |
| 315~450V      | 0.80 | 1.00 | 1.30 | 1.47    |
| 500~550V      | 0.80 | 1.00 | 1.30 | 1.41    |

**PART NUMBER SYSTEM (EXAMPLE : 160V 2200µF)**



EP

Large Can Aluminum Electrolytic Capacitors

**STANDARD RATINGS**

| Voltage (Code) |      | 10V (1A)  |                | 16V (1C)  |                | 25V (1E)  |                | 35V (1V)  |                |
|----------------|------|-----------|----------------|-----------|----------------|-----------|----------------|-----------|----------------|
| Cap. (µF)      | Code | Case Size | Ripple Current | Case Size | Ripple Current | Case Size | Ripple Current | Case Size | Ripple Current |
| 2200           | 228  |           |                |           |                |           |                | 22 x 25   | 1.10           |
| 3300           | 338  |           |                |           |                |           |                | 22 x 30   | 1.42           |
|                |      |           |                |           |                |           |                | 25 x 25   | 1.41           |
| 3900           | 398  |           |                |           |                | 22 x 25   | 1.31           | 22 x 35   | 1.58           |
|                |      |           |                |           |                |           |                | 25 x 30   | 1.58           |
| 4700           | 478  |           |                |           |                | 22 x 30   | 1.51           | 22 x 40   | 1.78           |
|                |      |           |                |           |                | 25 x 25   | 1.51           | 30 x 25   | 1.77           |
| 5600           | 568  |           |                |           |                |           |                | 25 x 35   | 1.98           |
|                |      |           |                | 22 x 25   | 1.44           | 22 x 35   | 1.70           | 30 x 30   | 1.98           |
|                |      |           |                |           |                |           |                | 35 x 25   | 2.03           |
| 6800           | 688  | 22 x 25   | 1.30           | 22 x 30   | 1.66           | 22 x 40   | 1.92           | 22 x 50   | 2.26           |
|                |      |           |                | 25 x 25   | 1.66           | 25 x 30   | 1.87           | 25 x 40   | 2.24           |
|                |      |           |                |           |                | 30 x 25   | 1.90           | 25 x 50   | 2.57           |
| 8200           | 828  |           |                | 22 x 35   | 1.87           | 25 x 35   | 2.14           | 25 x 50   | 2.57           |
|                |      |           |                |           |                | 30 x 30   | 2.15           | 30 x 35   | 2.50           |
|                |      |           |                |           |                | 35 x 25   | 2.19           | 35 x 30   | 2.55           |
| 10000          | 109  | 22 x 30   | 1.65           | 22 x 40   | 2.12           | 22 x 50   | 2.45           | 30 x 40   | 2.86           |
|                |      | 25 x 25   | 1.64           | 25 x 30   | 2.07           | 25 x 40   | 2.43           | 35 x 35   | 2.88           |
|                |      |           |                | 30 x 25   | 2.11           |           |                |           |                |
| 12000          | 129  | 22 x 35   | 1.85           | 25 x 35   | 2.37           | 25 x 50   | 2.78           | 30 x 50   | 3.32           |
|                |      | 25 x 30   | 1.85           | 30 x 30   | 2.37           | 30 x 35   | 2.70           | 35 x 40   | 3.30           |
|                |      | 30 x 25   | 1.89           | 35 x 25   | 2.42           | 35 x 30   | 2.76           |           |                |
| 15000          | 159  | 22 x 40   | 2.12           | 22 x 50   | 2.74           | 30 x 40   | 3.13           |           |                |
|                |      | 25 x 35   | 2.16           | 25 x 40   | 2.71           | 35 x 35   | 3.16           |           |                |
| 18000          | 189  | 22 x 50   | 2.45           | 25 x 50   | 3.11           | 30 x 50   | 3.64           | 35 x 50   | 4.29           |
|                |      | 25 x 40   | 2.43           |           |                |           |                |           |                |
|                |      | 30 x 30   | 2.37           | 30 x 35   | 3.02           |           |                |           |                |
|                |      | 35 x 25   | 2.42           | 35 x 30   | 3.09           | 35 x 40   | 3.61           |           |                |
| 22000          | 229  | 30 x 35   | 2.73           | 30 x 40   | 3.46           |           |                |           |                |
|                |      | 35 x 30   | 2.79           | 35 x 35   | 3.49           |           |                |           |                |
| 27000          | 279  | 25 x 50   | 3.11           | 30 x 50   | 4.07           | 35 x 50   | 4.70           |           |                |
|                |      | 30 x 40   | 3.13           | 35 x 40   | 4.04           |           |                |           |                |
| 33000          | 339  | 35 x 35   | 3.49           |           |                |           |                |           |                |
| 39000          | 399  | 30 x 50   | 3.99           | 35 x 50   | 5.16           |           |                |           |                |
|                |      | 35 x 40   | 3.96           |           |                |           |                |           |                |
| 47000          | 479  | 35 x 50   | 4.62           |           |                |           |                |           |                |

Maximum Allowable Ripple Current (Arms) at 105°C 120Hz

Case Size  $\Phi$ D x L (mm)

EP

Large Can Aluminum Electrolytic Capacitors

Specifications are subject to change without notice. Should a safety or technical concern arise regarding the product, please be sure to contact our sales offices or agents immediately.



**STANDARD RATINGS**

| Voltage (Code) |      | 50V (1H)  |                | 63V (1J)  |                | 80V (1K)  |                | 100V (2A) |                |
|----------------|------|-----------|----------------|-----------|----------------|-----------|----------------|-----------|----------------|
| Cap. (µF)      | Code | Case Size | Ripple Current | Case Size | Ripple Current | Case Size | Ripple Current | Case Size | Ripple Current |
| 390            | 397  |           |                |           |                |           |                | 22 x 25   | 0.78           |
| 560            | 567  |           |                |           |                |           |                | 22 x 30   | 0.99           |
|                |      |           |                |           |                |           |                | 25 x 25   | 0.98           |
| 680            | 687  |           |                |           |                | 22 x 25   | 0.97           | 22 x 35   | 1.12           |
|                |      |           |                |           |                |           |                | 22 x 40   | 1.26           |
| 820            | 827  |           |                |           |                | 22 x 30   | 1.12           | 25 x 30   | 1.23           |
|                |      |           |                |           |                |           |                | 30 x 25   | 1.25           |
|                |      |           |                |           |                | 22 x 35   | 1.70           | 25 x 35   | 1.41           |
| 1000           | 108  |           |                | 22 x 25   | 1.00           | 25 x 25   | 1.92           | 30 x 30   | 1.42           |
|                |      |           |                |           |                |           |                | 35 x 25   | 1.45           |
|                |      |           |                | 22 x 30   | 1.15           | 22 x 40   | 1.42           | 22 x 50   | 1.60           |
| 1200           | 128  |           |                |           |                | 25 x 30   | 1.39           | 25 x 40   | 1.59           |
|                |      |           |                | 25 x 25   | 1.15           | 30 x 25   | 1.41           | 30 x 35   | 1.61           |
|                |      |           |                |           |                |           |                | 25 x 50   | 1.86           |
| 1500           | 158  | 22 x 25   | 1.02           | 22 x 35   | 1.32           | 25 x 35   | 1.62           | 30 x 40   | 1.87           |
|                |      |           |                |           |                |           |                | 35 x 30   | 1.85           |
|                |      | 22 x 30   | 1.17           | 22 x 40   | 1.49           | 22 x 50   | 1.84           |           |                |
| 1800           | 188  |           |                | 25 x 30   | 1.45           | 25 x 40   | 1.82           | 35 x 35   | 2.07           |
|                |      | 25 x 25   | 1.17           | 30 x 25   | 1.48           | 30 x 30   | 1.78           |           |                |
|                |      |           |                |           |                | 35 x 25   | 1.82           |           |                |
|                |      |           |                | 25 x 35   | 1.67           | 25 x 50   | 2.11           | 30 x 50   | 2.40           |
| 2200           | 228  | 22 x 35   | 1.33           | 30 x 30   | 1.68           | 30 x 35   | 2.05           |           |                |
|                |      |           |                | 35 x 25   | 1.71           | 35 x 30   | 2.09           | 35 x 40   | 2.39           |
|                |      | 22 x 40   | 1.51           | 22 x 50   | 1.92           | 30 x 40   | 2.35           |           |                |
| 2700           | 278  | 25 x 30   | 1.47           | 25 x 40   | 1.90           |           |                | 35 x 50   | 2.81           |
|                |      | 30 x 25   | 1.50           | 30 x 35   | 1.93           | 35 x 35   | 2.37           |           |                |
|                |      | 25 x 35   | 1.70           | 25 x 50   | 2.20           | 30 x 50   | 2.75           |           |                |
| 3300           | 338  | 30 x 30   | 1.70           |           |                |           |                |           |                |
|                |      | 35 x 25   | 1.74           | 35 x 30   | 2.18           | 35 x 40   | 2.73           |           |                |
|                |      | 22 x 50   | 1.91           | 30 x 40   | 2.41           |           |                |           |                |
| 3900           | 398  | 25 x 40   | 1.89           | 35 x 35   | 2.43           |           |                |           |                |
|                |      | 30 x 35   | 2.11           | 30 x 50   | 2.80           | 35 x 50   | 3.46           |           |                |
| 4700           | 478  | 35 x 30   | 2.16           | 35 x 40   | 2.78           |           |                |           |                |
|                |      | 25 x 50   | 2.38           |           |                |           |                |           |                |
| 5600           | 568  | 30 x 40   | 2.39           |           |                |           |                |           |                |
|                |      | 35 x 35   | 2.41           |           |                |           |                |           |                |
|                |      | 30 x 50   | 2.79           | 35 x 50   | 3.55           |           |                |           |                |
| 6800           | 688  | 35 x 40   | 2.78           |           |                |           |                |           |                |
| 10000          | 109  | 35 x 50   | 3.57           |           |                |           |                |           |                |

Maximum Allowable Ripple Current (Arms) at 105°C 120Hz

Case Size  $\Phi$ D x L (mm)

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**STANDARD RATINGS**

| Voltage (Code) |      | 160V (2C) |                | 200V (2D) |                | 250V (2E) |                | 315V (2F) |                |
|----------------|------|-----------|----------------|-----------|----------------|-----------|----------------|-----------|----------------|
| Cap. (μF)      | Code | Case Size | Ripple Current | Case Size | Ripple Current | Case Size | Ripple Current | Case Size | Ripple Current |
| 150            | 157  |           |                |           |                |           |                | 22 x 30   | 0.86           |
| 180            | 187  |           |                |           |                |           |                | 22 x 35   | 0.98           |
|                |      |           |                |           |                |           |                | 25 x 30   | 1.01           |
| 220            | 227  |           |                |           |                | 22 x 30   | 1.09           | 22 x 40   | 1.10           |
|                |      |           |                |           |                |           |                | 30 x 25   | 1.17           |
| 270            | 277  |           |                | 22 x 25   | 1.10           | 22 x 35   | 1.28           | 22 x 45   | 1.24           |
|                |      |           |                |           |                |           |                | 25 x 35   | 1.27           |
| 330            | 337  |           |                |           |                | 25 x 30   | 1.42           | 22 x 50   | 1.39           |
|                |      |           |                |           |                |           |                | 25 x 40   | 1.45           |
|                |      |           |                |           |                |           |                | 30 x 30   | 1.40           |
| 390            | 397  | 22 x 30   | 1.42           | 22 x 35   | 1.47           | 22 x 45   | 1.61           | 25 x 45   | 1.60           |
|                |      |           |                | 25 x 30   | 1.50           | 25 x 35   | 1.53           |           |                |
|                |      |           |                |           |                | 30 x 30   | 1.62           |           |                |
| 470            | 477  |           |                | 22 x 40   | 1.64           | 22 x 50   | 1.79           | 25 x 50   | 1.78           |
|                |      |           |                |           |                |           |                | 30 x 40   | 1.81           |
|                |      |           |                |           |                |           |                | 35 x 30   | 1.82           |
| 560            | 567  | 22 x 35   | 1.77           | 22 x 45   | 1.82           | 25 x 45   | 1.98           | 30 x 45   | 2.02           |
|                |      | 25 x 30   | 1.81           | 25 x 35   | 1.82           | 30 x 35   | 1.95           | 35 x 35   | 2.00           |
|                |      |           |                | 30 x 25   | 1.78           |           |                |           |                |
| 680            | 687  | 22 x 40   | 1.98           | 22 x 50   | 1.90           | 25 x 50   | 2.21           | 30 x 50   | 2.21           |
|                |      | 25 x 35   | 2.01           | 25 x 40   | 1.98           | 30 x 40   | 2.18           | 35 x 40   | 2.29           |
|                |      | 30 x 25   | 1.96           | 30 x 30   | 1.98           | 35 x 30   | 2.15           |           |                |
| 820            | 827  | 22 x 45   | 2.20           | 25 x 45   | 2.20           | 30 x 45   | 2.45           | 35 x 45   | 2.57           |
|                |      |           |                | 30 x 35   | 2.22           | 35 x 35   | 2.38           |           |                |
|                |      | 25 x 45   | 2.65           | 25 x 50   | 2.46           | 30 x 50   | 2.68           |           |                |
| 1000           | 108  | 30 x 35   | 2.55           | 30 x 40   | 2.53           | 35 x 40   | 2.72           | 35 x 50   | 2.89           |
|                |      | 35 x 25   | 2.55           | 35 x 35   | 2.77           |           |                |           |                |
|                |      | 25 x 50   | 2.93           | 30 x 45   | 2.84           |           |                |           |                |
| 1200           | 128  | 30 x 40   | 2.84           | 35 x 35   | 2.88           | 35 x 45   | 3.05           |           |                |
|                |      | 35 x 30   | 2.86           |           |                |           |                |           |                |
| 1500           | 158  | 30 x 45   | 3.17           | 35 x 40   | 3.34           | 35 x 50   | 3.49           |           |                |
|                |      | 35 x 35   | 3.22           |           |                |           |                |           |                |
| 1800           | 188  | 30 x 50   | 3.53           | 35 x 45   | 3.74           |           |                |           |                |
|                |      | 35 x 40   | 3.66           |           |                |           |                |           |                |
| 2200           | 228  | 35 x 45   | 4.14           |           |                |           |                |           |                |
| 2700           | 278  | 35 x 50   | 4.68           |           |                |           |                |           |                |

Maximum Allowable Ripple Current (Arms) at 85°C 120Hz

Case Size ΦD x L (mm)

EP

Large Can Aluminum Electrolytic Capacitors

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**STANDARD RATINGS**

| Voltage (Code) |      | 350V (2V)                     |                      | 400V (2G)                     |                      | 420V (2M)                     |                      | 450V (2W)                     |                      |
|----------------|------|-------------------------------|----------------------|-------------------------------|----------------------|-------------------------------|----------------------|-------------------------------|----------------------|
| Cap. (μF)      | Code | Case Size                     | Ripple Current       | Case Size                     | Ripple Current       | Case Size                     | Ripple Current       | Case Size                     | Ripple Current       |
| 82             | 826  |                               |                      |                               |                      |                               |                      | 22 x 30                       | 0.64                 |
| 100            | 107  |                               |                      | 22 x 30                       | 0.71                 | 22 x 30                       | 0.71                 | 22 x 35<br>25 x 30            | 0.74<br>0.75         |
| 120            | 127  | 22 x 30                       | 0.78                 | 22 x 35                       | 0.80                 | 22 x 35<br>25 x 30            | 0.80<br>0.83         | 22 x 40                       | 0.82                 |
| 150            | 157  | 22 x 35                       | 0.90                 | 22 x 40<br>25 x 35            | 0.91<br>0.99         | 22 x 40                       | 0.91                 | 22 x 45<br>25 x 35<br>30 x 30 | 0.93<br>0.94<br>1.00 |
| 180            | 187  | 25 x 30                       | 1.01                 | 22 x 45<br>25 x 35<br>30 x 30 | 1.01<br>1.03<br>1.10 | 22 x 45<br>25 x 40<br>30 x 30 | 1.01<br>1.10<br>1.10 | 22 x 50<br>25 x 40<br>30 x 30 | 1.01<br>1.03<br>1.03 |
| 220            | 227  | 22 x 45<br>25 x 35<br>30 x 30 | 1.16<br>1.14<br>1.21 | 22 x 50<br>25 x 40            | 1.14<br>1.19         | 25 x 45<br>30 x 35<br>35 x 25 | 1.20<br>1.21<br>1.22 | 25 x 45<br>30 x 35<br>35 x 30 | 1.16<br>1.17<br>1.24 |
| 270            | 277  | 22 x 50<br>25 x 40<br>30 x 30 | 1.26<br>1.31<br>1.27 | 25 x 50<br>30 x 35            | 1.39<br>1.35         | 25 x 50<br>30 x 40<br>35 x 30 | 1.35<br>1.37<br>1.38 | 25 x 50<br>30 x 40<br>35 x 35 | 1.31<br>1.33<br>1.39 |
| 330            | 337  | 25 x 45<br>30 x 35            | 1.46<br>1.43         | 30 x 45<br>35 x 30            | 1.59<br>1.52         | 30 x 45<br>35 x 35            | 1.50<br>1.54         | 30 x 50                       | 1.58                 |
| 390            | 397  | 25 x 50<br>30 x 40<br>35 x 35 | 1.62<br>1.60<br>1.76 | 30 x 45<br>35 x 35            | 1.68<br>1.67         | 30 x 50<br>35 x 40            | 1.72<br>1.73         | 35 x 40                       | 1.73                 |
| 470            | 477  | 30 x 45<br>35 x 35            | 1.81<br>1.83         | 30 x 50<br>35 x 40            | 1.89<br>1.90         | 35 x 45                       | 1.94                 | 35 x 50                       | 1.98                 |
| 560            | 567  | 30 x 50<br>35 x 40            | 2.00<br>2.07         | 35 x 45                       | 2.12                 | 35 x 50                       | 2.17                 |                               |                      |
| 680            | 687  | 35 x 45                       | 2.34                 | 35 x 50                       | 2.39                 |                               |                      |                               |                      |
| 820            | 827  | 35 x 50                       | 2.62                 |                               |                      |                               |                      |                               |                      |

Maximum Allowable Ripple Current (Arms) at 105°C 120Hz

Case Size ΦD x L (mm)

EP

Large Can Aluminum Electrolytic Capacitors

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**STANDARD RATINGS**

| Voltage (Code) |      | 500V (2H) |                | 550V (25) |                |
|----------------|------|-----------|----------------|-----------|----------------|
| Cap. (µF)      | Code | Case Size | Ripple Current | Case Size | Ripple Current |
| 100            | 107  | 22 x 45   | 0.67           | 25 x 40   | 0.70           |
|                |      | 25 x 40   | 0.68           | 25 x 50   | 0.78           |
| 120            | 127  | 22 x 50   | 0.80           | 30 x 40   | 0.80           |
|                |      | 25 x 40   | 0.78           | 35 x 30   | 0.78           |
| 150            | 157  | 25 x 45   | 0.92           | 25 x 50   | 0.89           |
|                |      | 30 x 40   | 0.96           | 30 x 45   | 0.94           |
|                |      | 35 x 30   | 0.94           | 35 x 35   | 0.93           |
| 180            | 187  | 25 x 50   | 1.04           | 30 x 50   | 1.08           |
|                |      | 30 x 45   | 1.10           | 35 x 40   | 1.08           |
| 220            | 227  | 30 x 50   | 1.28           | 30 x 60   | 1.30           |
|                |      | 35 x 40   | 1.28           | 35 x 50   | 1.30           |
| 270            | 277  | 30 x 50   | 1.40           | 30 x 60   | 1.44           |
|                |      | 35 x 40   | 1.40           | 35 x 50   | 1.46           |
| 330            | 337  | 30 x 50   | 1.54           | 35 x 60   | 1.90           |
|                |      | 35 x 45   | 1.60           |           |                |
| 390            | 397  | 30 x 60   | 1.80           | 35 x 70   | 2.04           |
|                |      | 35 x 50   | 1.82           | 40 x 60   | 2.08           |
| 470            | 477  | 30 x 60   | 1.98           | 35 x 70   | 2.22           |
|                |      | 35 x 50   | 2.00           | 40 x 60   | 2.30           |
| 560            | 567  | 35 x 60   | 2.36           | 35 x 90   | 2.70           |
|                |      | 35 x 70   | 2.50           | 40 x 80   | 2.76           |
| 680            | 687  | 35 x 80   | 2.88           | 40 x 90   | 3.20           |
|                |      | 40 x 70   | 2.92           | 45 x 70   | 3.08           |
| 820            | 827  | 40 x 80   | 3.42           | 45 x 85   | 3.66           |
|                |      | 45 x 75   | 3.54           | 50 x 70   | 3.58           |
| 1000           | 108  | 45 x 80   | 4.02           | 45 x 100  | 4.24           |
|                |      | 50 x 70   | 4.20           | 50 x 85   | 4.18           |
| 1200           | 128  | 45 x 100  | 5.10           | 50 x 100  | 4.82           |
|                |      | 50 x 80   | 4.90           |           |                |

Maximum Allowable Ripple Current (Arms) at 85°C 120Hz

Case Size  $\Phi$  D x L (mm)

EP

Large Can Aluminum Electrolytic Capacitors

Specifications are subject to change without notice. Should a safety or technical concern arise regarding the product, please be sure to contact our sales offices or agents immediately.