

# **Types 380L, 382L, 380LX & 382LX, 85 °C High-Capacitance Snap-In**

## **2-pin Types: 380L and 380LX. 4-pin or 5-pin Types: 382L and 382LX**



The excellent value of Type 380L/LX capacitors finds application in switching power supply input and output circuits and even motor drives where the high surface area of multiple units in parallel approaches the ripple capability of our Type 520C computer-grade capacitor. Type 380LX delivers more capacitance per can size while Type 380L available in the largest case sizes gives lower ESR for the same capacitance. Types 382L and 382LX give the choice of 4 or 5 leads for stable, reverse proof mounting.

### **Highlights**

- Latest available ratings, worldwide
- Top performance in power supplies and motor drives
- Big selection of 46 case sizes
- 2, 4 and 5 leads available

### **Specifications**

|                               |                                                     |
|-------------------------------|-----------------------------------------------------|
| <b>Operating Temperature:</b> | –40 °C to 85 °C up to 300 V, –25 °C to 85 °C ≥315 V |
| <b>Rated Voltage:</b>         | 16 Vdc to 500 Vdc                                   |
| <b>Capacitance:</b>           | 33 µF to 270,000 µF ±20%                            |
| <b>Leakage Current:</b>       | $\leq 3\sqrt{CV}$ µA at 5 min.                      |

#### **Ripple Current Multipliers:**

#### **Ambient Temperature**

| 45 °C | 60 °C | 70 °C | 85 °C |
|-------|-------|-------|-------|
| 1.5   | 1.4   | 1.3   | 1.0   |

#### **Frequency**

|             | 50 Hz | 60 Hz | 120 Hz | 500 Hz | 2 kHz | 10 kHz & up |
|-------------|-------|-------|--------|--------|-------|-------------|
| 16-100 Vdc  | 0.93  | 0.95  | 1.00   | 1.05   | 1.08  | 1.15        |
| 160-450 Vdc | 0.75  | 0.80  | 1.00   | 1.20   | 1.25  | 1.40        |

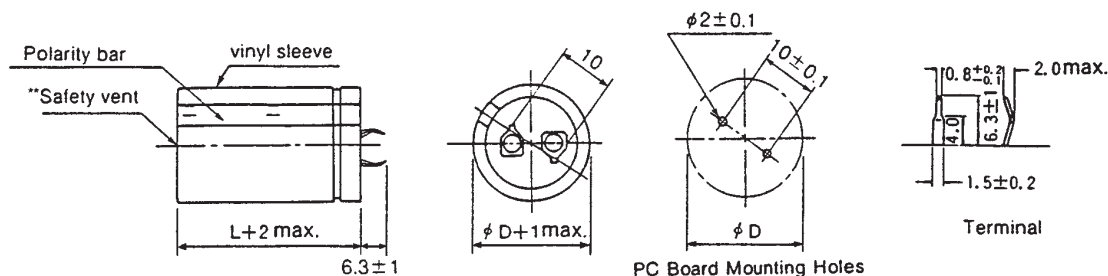
|                         |                                                                                                             |
|-------------------------|-------------------------------------------------------------------------------------------------------------|
| <b>EIA Ripple Life:</b> | 3,000 h @ full load at +85 °C per EIA IS-749<br>ΔCapacitance ±20%<br>ESR 150% of limit<br>DCL 100% of limit |
| <b>Load Life Test:</b>  | 3,000 h @ full load at +85 °C<br>ΔCapacitance ±20%<br>ESR 200% of limit<br>DCL 100% of limit                |
| <b>Shelf Life:</b>      | 1,000 h @ 85 °C, capacitance, ESR and DCL, initial requirements                                             |
| <b>Vibration:</b>       | 10 to 55 Hz, 0.06" and 10 g max, 2 h in each plane                                                          |

# Types 380L, 382L, 380LX & 382LX, 85 °C High-Capacitance Snap-In

## Outline Drawings

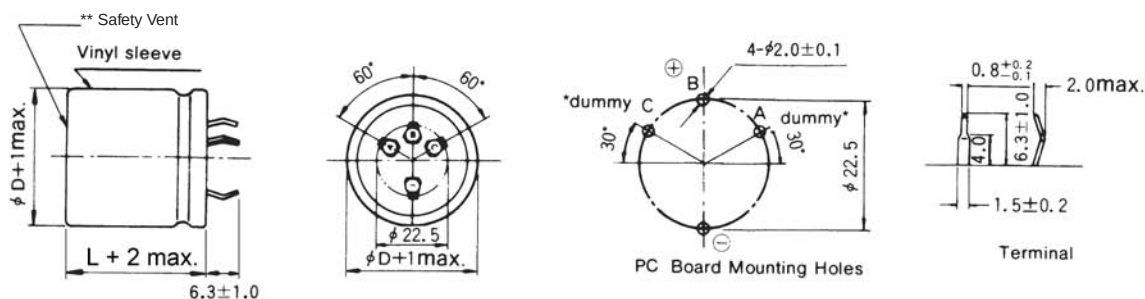
### Two Pins

#### 380L/LX (22 through 40 mm diameter)



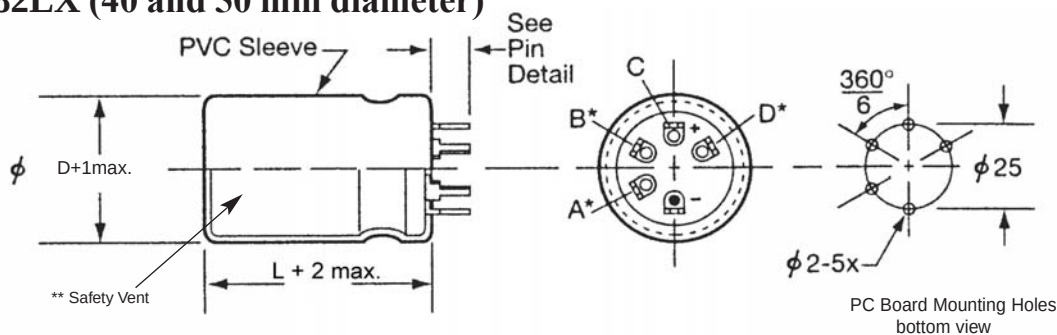
### Four Pins

#### 382L/LX (35 and 40 mm diameter)

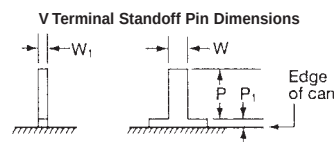


### Five Pins

#### 382L/382LX (40 and 50 mm diameter)



| Terminal | Connection   |              |
|----------|--------------|--------------|
|          | 40 mm Dia.   | 50 mm Dia.   |
| A        | dummy        | negative (-) |
| B        | dummy        | dummy        |
| C        | positive (+) | positive (+) |
| D        | dummy        | positive (+) |
| -        | negative (-) | negative (-) |



| Type | P              | P <sub>1</sub> | W             | W <sub>1</sub> |
|------|----------------|----------------|---------------|----------------|
| V    | $3.75 \pm 0.1$ | 0.6 min.       | $1.5 \pm 0.1$ | 0.7            |

Notes:

\* Use dummy terminals for mechanical support only. Make no electrical connection because they resistively connect through the electrolyte to the negative terminal.

\*\* Safety Vent may be on the bottom or on the side of the can.

# Types 380L, 382L, 380LX & 382LX, 85 °C High-Capacitance Snap-In

## Insulated Case Dimensions

| Case Code | DIAMETER "D" |        | LENGTH "L" |        | Typical Weight (grams) |
|-----------|--------------|--------|------------|--------|------------------------|
|           | mm           | inches | mm         | inches |                        |
| H20       | 22           | 0.87   | 20         | 0.79   | 14                     |
| H01       | 22           | 0.87   | 25         | 0.98   | 16                     |
| H02       | 22           | 0.87   | 30         | 1.18   | 19                     |
| H03       | 22           | 0.87   | 35         | 1.38   | 22                     |
| H04       | 22           | 0.87   | 40         | 1.57   | 24                     |
| H45       | 22           | 0.87   | 45         | 1.77   | 28                     |
| H05       | 22           | 0.87   | 50         | 1.97   | 31                     |
| J20       | 25           | 0.98   | 20         | 0.79   | 16                     |
| J01       | 25           | 0.98   | 25         | 0.98   | 20                     |
| J02       | 25           | 0.98   | 30         | 1.18   | 24                     |
| J03       | 25           | 0.98   | 35         | 1.38   | 27                     |
| J04       | 25           | 0.98   | 40         | 1.57   | 31                     |
| J45       | 25           | 0.98   | 45         | 1.77   | 35                     |
| J05       | 25           | 0.98   | 50         | 1.97   | 38                     |
| K20       | 30           | 1.18   | 20         | 0.79   | 25                     |
| K01       | 30           | 1.18   | 25         | 0.98   | 30                     |
| K02       | 30           | 1.18   | 30         | 1.18   | 35                     |
| K03       | 30           | 1.18   | 35         | 1.38   | 40                     |
| K04       | 30           | 1.18   | 40         | 1.57   | 44                     |
| K45       | 30           | 1.18   | 45         | 1.77   | 48                     |
| K05       | 30           | 1.18   | 50         | 1.97   | 53                     |

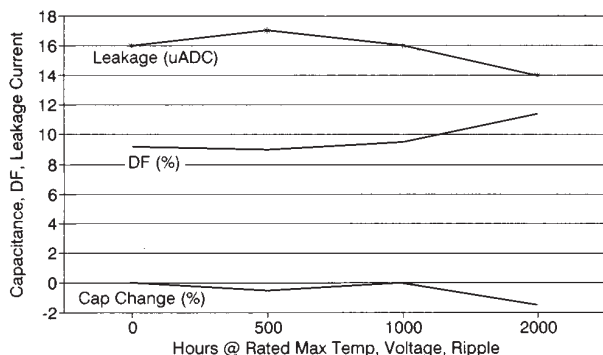
| Case Code | DIAMETER "D" |        | LENGTH "L" |        | Typical Weight (grams) |
|-----------|--------------|--------|------------|--------|------------------------|
|           | mm           | inches | mm         | inches |                        |
| A20       | 35           | 1.38   | 20         | 0.79   | 35                     |
| A01       | 35           | 1.38   | 25         | 0.98   | 42                     |
| A02       | 35           | 1.38   | 30         | 1.18   | 48                     |
| A03       | 35           | 1.38   | 35         | 1.38   | 54                     |
| A04       | 35           | 1.38   | 40         | 1.57   | 62                     |
| A45       | 35           | 1.38   | 45         | 1.77   | 67                     |
| A05       | 35           | 1.38   | 50         | 1.97   | 74                     |
| A06       | 35           | 1.38   | 63         | 2.48   | 88                     |
| A07       | 35           | 1.38   | 70         | 2.76   | 98                     |
| A08       | 35           | 1.38   | 80         | 3.15   | 112                    |
| A10       | 35           | 1.38   | 105        | 4.13   | 144                    |
| N04       | 40           | 1.57   | 40         | 1.57   | 82                     |
| N05       | 40           | 1.57   | 50         | 1.97   | 105                    |
| N06       | 40           | 1.57   | 63         | 2.48   | 130                    |
| N08       | 40           | 1.57   | 80         | 3.15   | 185                    |
| N10       | 40           | 1.57   | 105        | 4.13   | 265                    |
| B05       | 50           | 1.97   | 50         | 1.97   | 136                    |
| B06       | 50           | 1.97   | 63         | 2.48   | 168                    |
| B08       | 50           | 1.97   | 80         | 3.15   | 239                    |
| B09       | 50           | 1.97   | 92         | 3.62   | 241                    |
| B10       | 50           | 1.97   | 105        | 4.13   | 325                    |

## Part Numbering System

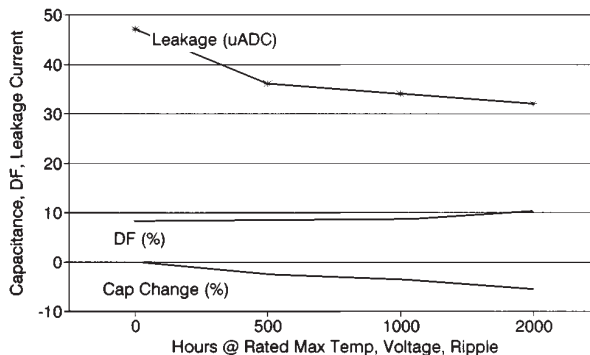
|                                                                                             |                                                                     |                                     |                             |                  |                                     |                                                                                                                     |
|---------------------------------------------------------------------------------------------|---------------------------------------------------------------------|-------------------------------------|-----------------------------|------------------|-------------------------------------|---------------------------------------------------------------------------------------------------------------------|
| <b>382LX</b>                                                                                | <b>272</b>                                                          | <b>M</b>                            | <b>200</b>                  | <b>N05</b>       | <b>2</b>                            | <b>V</b>                                                                                                            |
| <b>Type</b><br>380L (2 pins)<br>380LX (2 pins)<br>382L (4 or 5 pins)<br>382LX (4 or 5 pins) | <b>Capacitance</b><br><b>272</b> = 2700 µF<br><b>333</b> = 33000 µF | <b>Tolerance</b><br><b>M</b> = ±20% | <b>Rated Voltage</b><br>Vdc | <b>Case Code</b> | <b>Insulation</b><br><b>2</b> = PVC | <b>382L/LX</b><br><b>4 or 5 Pin Mount</b><br>blank = 4 pins<br>(35 or 40 mm dia)<br>V = 5 pins<br>(40 or 50 mm dia) |

## Typical Performance Curves

Life Test Data 380L222M050K012  
Capacitance, DF, Leakage Current

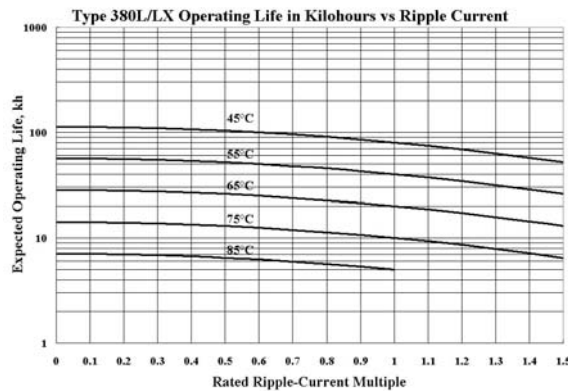
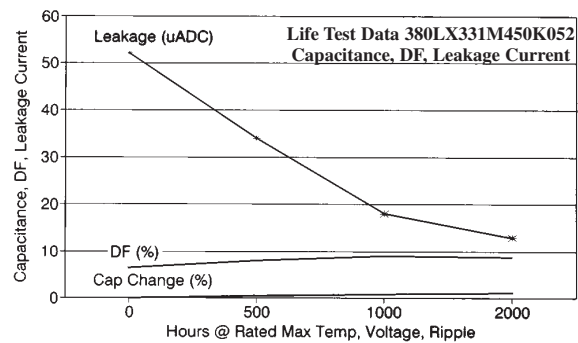
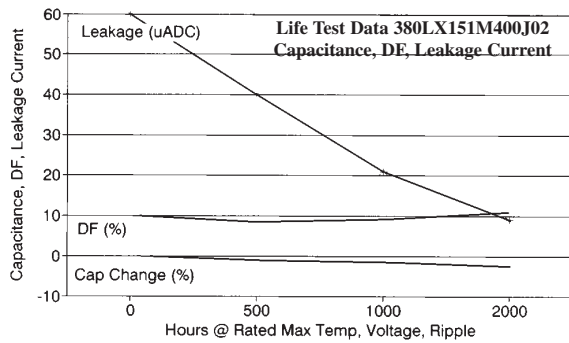


Life Test Data 380LX222M100J042  
Capacitance, DF, Leakage Current



# Types 380L, 382L, 380LX & 382LX, 85 °C High-Capacitance Snap-In

## Typical Performance Curves



## Ratings

| Cap.<br>(μF)                 | Catalog Part Number | Max. ESR<br>Ω @ 25 °C<br>120 Hz 20 kHz | Ripple Amps<br>Max. @ 85 °C<br>120 Hz 20 kHz | Nominal<br>Size D x L<br>(mm) |
|------------------------------|---------------------|----------------------------------------|----------------------------------------------|-------------------------------|
| <b>16 Vdc (20 Vdc Surge)</b> |                     |                                        |                                              |                               |
| 4700                         | 380LX472M016H202    | 0.160                                  | 0.135                                        | 1.60 1.80                     |
| 4700                         | 380LX472M016H012    | 0.160                                  | 0.135                                        | 1.77 2.00                     |
| 6800                         | 380LX682M016H012    | 0.110                                  | 0.092                                        | 2.60 3.00                     |
| 6800                         | 380LX682M016J202    | 0.110                                  | 0.092                                        | 1.80 2.10                     |
| 8200                         | 380LX822M016H012    | 0.090                                  | 0.078                                        | 3.10 3.60                     |
| 10000                        | 380LX103M016H022    | 0.075                                  | 0.062                                        | 3.80 4.30                     |
| 10000                        | 380LX103M016J012    | 0.075                                  | 0.062                                        | 3.80 4.30                     |
| 10000                        | 380LX103M016K202    | 0.084                                  | 0.070                                        | 2.40 2.80                     |
| 12000                        | 380LX123M016H022    | 0.062                                  | 0.052                                        | 4.50 5.20                     |
| 12000                        | 380LX123M016J012    | 0.062                                  | 0.052                                        | 4.50 5.20                     |
| 15000                        | 380LX153M016H032    | 0.054                                  | 0.045                                        | 5.30 6.00                     |
| 15000                        | 380LX153M016J022    | 0.054                                  | 0.045                                        | 5.30 6.00                     |
| 15000                        | 380LX153M016A202    | 0.055                                  | 0.048                                        | 3.20 3.70                     |
| 18000                        | 380LX183M016H042    | 0.045                                  | 0.040                                        | 5.60 6.40                     |
| 18000                        | 380LX183M016J022    | 0.045                                  | 0.040                                        | 5.60 6.40                     |
| 22000                        | 380LX223M016H452    | 0.038                                  | 0.032                                        | 6.10 7.00                     |
| 22000                        | 380LX223M016J032    | 0.038                                  | 0.032                                        | 6.10 7.00                     |
| 22000                        | 380LX223M016K022    | 0.038                                  | 0.032                                        | 6.10 7.00                     |
| 27000                        | 380LX273M016J452    | 0.031                                  | 0.025                                        | 6.30 7.30                     |
| 27000                        | 380LX273M016K032    | 0.031                                  | 0.025                                        | 6.30 7.30                     |
| 33000                        | 380LX333M016J052    | 0.025                                  | 0.021                                        | 6.80 7.80                     |
| 33000                        | 380LX333M016K042    | 0.025                                  | 0.021                                        | 6.80 7.90                     |
| 33000                        | 380LX333M016A022    | 0.025                                  | 0.021                                        | 6.80 7.90                     |
| 39000                        | 380LX393M016K452    | 0.022                                  | 0.018                                        | 6.95 8.00                     |
| 39000                        | 380LX393M016A032    | 0.022                                  | 0.018                                        | 6.95 8.00                     |
| 47000                        | 380LX473M016K052    | 0.020                                  | 0.017                                        | 7.50 8.60                     |
| 47000                        | 380LX473M016A042    | 0.022                                  | 0.020                                        | 7.50 8.60                     |
| 56000                        | 380LX563M016A452    | 0.020                                  | 0.018                                        | 8.70 10.00                    |

| Cap.<br>(μF)                 | Catalog Part Number | Max. ESR<br>Ω @ 25 °C<br>120 Hz 20 kHz | Ripple Amps<br>Max. @ 85 °C<br>120 Hz 20 kHz | Nominal<br>Size D x L<br>(mm) |
|------------------------------|---------------------|----------------------------------------|----------------------------------------------|-------------------------------|
| 56000                        | 382LX563M016N042    | 0.022                                  | 0.021                                        | 9.00 10.40                    |
| 68000                        | 380LX683M016A052    | 0.018                                  | 0.017                                        | 9.00 10.40                    |
| 82000                        | 380LX823M016A062    | 0.016                                  | 0.015                                        | 10.00 11.50                   |
| 82000                        | 382LX823M016N052    | 0.016                                  | 0.015                                        | 10.30 11.80                   |
| 100000                       | 380LX104M016A082    | 0.015                                  | 0.014                                        | 11.00 12.70                   |
| 100000                       | 382LX104M016N062    | 0.018                                  | 0.017                                        | 11.40 13.00                   |
| 120000                       | 380LX124M016A102    | 0.014                                  | 0.013                                        | 12.81 14.73                   |
| 120000                       | 382LX124M016N082    | 0.017                                  | 0.016                                        | 12.40 14.30                   |
| 120000                       | 382LX124M016B052V   | 0.014                                  | 0.013                                        | 13.17 15.15                   |
| 150000                       | 382LX154M016B062V   | 0.012                                  | 0.011                                        | 14.40 16.56                   |
| 180000                       | 382LX184M016N102    | 0.013                                  | 0.012                                        | 14.85 17.08                   |
| 180000                       | 382LX184M016B082V   | 0.011                                  | 0.010                                        | 15.69 18.04                   |
| 220000                       | 382LX224M016B092V   | 0.010                                  | 0.009                                        | 16.73 19.24                   |
| 270000                       | 382LX274M016B102V   | 0.009                                  | 0.008                                        | 17.79 20.46                   |
| <b>25 Vdc (32 Vdc Surge)</b> |                     |                                        |                                              |                               |
| 3300                         | 380LX332M025H202    | 0.177                                  | 0.140                                        | 1.60 1.80                     |
| 3300                         | 380LX332M025H012    | 0.161                                  | 0.130                                        | 1.70 1.90                     |
| 4700                         | 380LX472M025H012    | 0.110                                  | 0.090                                        | 2.40 2.75                     |
| 4700                         | 380LX472M025J202    | 0.125                                  | 0.100                                        | 1.80 2.10                     |
| 5600                         | 380LX562M025H012    | 0.095                                  | 0.075                                        | 2.90 3.30                     |
| 6800                         | 380LX682M025H022    | 0.078                                  | 0.063                                        | 3.50 4.00                     |
| 6800                         | 380LX682M025J012    | 0.078                                  | 0.063                                        | 3.50 4.00                     |
| 6800                         | 380LX682M025K202    | 0.078                                  | 0.063                                        | 2.30 2.60                     |
| 8200                         | 380LX822M025H022    | 0.065                                  | 0.049                                        | 3.60 4.10                     |
| 8200                         | 380LX822M025J012    | 0.065                                  | 0.049                                        | 3.60 4.10                     |
| 10000                        | 380LX103M025H032    | 0.058                                  | 0.046                                        | 3.80 4.30                     |
| 10000                        | 380LX103M025J022    | 0.058                                  | 0.046                                        | 3.80 4.30                     |
| 10000                        | 380LX103M025K012    | 0.058                                  | 0.046                                        | 3.80 4.30                     |
| 10000                        | 380LX103M025A202    | 0.060                                  | 0.050                                        | 2.70 3.10                     |

# Types 380L, 382L, 380LX & 382LX, 85 °C High-Capacitance Snap-In

| Cap.<br>(µF)                 | Catalog Part Number | Max. ESR<br>Ω@ 25 °C<br>120 Hz 20 kHz | Ripple Amps<br>Max. @ 85 °C<br>120 Hz20 kHz | Nominal<br>Size D x L<br>(mm) |
|------------------------------|---------------------|---------------------------------------|---------------------------------------------|-------------------------------|
| <b>25 Vdc (32 Vdc Surge)</b> |                     |                                       |                                             |                               |
| 10000                        | 380LX103M025A202    | 0.060                                 | 0.050                                       | 2.70 3.10 35 x 20             |
| 12000                        | 380LX123M025H042    | 0.050                                 | 0.040                                       | 4.10 4.70 22 x 40             |
| 12000                        | 380LX123M025J032    | 0.050                                 | 0.040                                       | 4.10 4.70 25 x 35             |
| 12000                        | 380LX123M025K022    | 0.050                                 | 0.040                                       | 4.10 4.70 30 x 30             |
| 15000                        | 380LX153M025H052    | 0.040                                 | 0.030                                       | 4.60 5.30 22 x 50             |
| 15000                        | 380LX153M025J042    | 0.040                                 | 0.030                                       | 4.60 5.30 25 x 40             |
| 15000                        | 380LX153M025K022    | 0.040                                 | 0.030                                       | 4.60 5.30 30 x 30             |
| 18000                        | 380LX183M025J452    | 0.035                                 | 0.028                                       | 5.50 6.30 25 x 45             |
| 18000                        | 380LX183M025K032    | 0.035                                 | 0.028                                       | 5.50 6.30 30 x 35             |
| 22000                        | 380LX223M025J052    | 0.030                                 | 0.023                                       | 6.10 7.00 25 x 50             |
| 22000                        | 380LX223M025K042    | 0.030                                 | 0.023                                       | 6.10 7.00 30 x 40             |
| 27000                        | 380LX273M025K452    | 0.023                                 | 0.020                                       | 6.20 7.10 30 x 45             |
| 27000                        | 380LX273M025A03     | 0.023                                 | 0.020                                       | 6.20 7.10 35 x 35             |
| 33000                        | 380LX333M025K052    | 0.020                                 | 0.017                                       | 6.80 7.90 30 x 50             |
| 33000                        | 380LX333M025A042    | 0.020                                 | 0.017                                       | 6.80 7.90 35 x 40             |
| 33000                        | 382L333M025N042     | 0.026                                 | 0.016                                       | 7.30 8.00 40 x 40             |
| 39000                        | 380LX393M025A452    | 0.020                                 | 0.017                                       | 7.40 8.50 35 x 45             |
| 39000                        | 382LX393M025N042    | 0.020                                 | 0.018                                       | 8.00 9.20 40 x 40             |
| 47000                        | 380LX473M025A052    | 0.017                                 | 0.015                                       | 8.00 9.20 35 x 50             |
| 47000                        | 380L473M025A062     | 0.017                                 | 0.009                                       | 8.30 9.50 35 x 63             |
| 56000                        | 380L563M025A072     | 0.015                                 | 0.008                                       | 9.10 10.30 35 x 70            |
| 56000                        | 382L563M025N062     | 0.015                                 | 0.009                                       | 9.50 10.30 40 x 63            |
| 56000                        | 380LX563M025A062    | 0.015                                 | 0.013                                       | 8.60 9.90 35 x 63             |
| 56000                        | 382LX563M025N052    | 0.016                                 | 0.015                                       | 9.00 10.30 40 x 50            |
| 68000                        | 380LX683M025A082    | 0.013                                 | 0.011                                       | 10.40 12.00 35 x 80           |
| 68000                        | 382LX683M025N062    | 0.017                                 | 0.015                                       | 10.25 11.80 40 x 63           |
| 82000                        | 382LX823M025B052V   | 0.016                                 | 0.015                                       | 12.29 14.13 50 x 50           |
| 100000                       | 380LX104M025A102    | 0.010                                 | 0.008                                       | 11.97 13.77 35 x 105          |
| 100000                       | 382LX104M025B062V   | 0.014                                 | 0.013                                       | 13.45 15.47 50 x 63           |
| 100000                       | 382LX104M025N082    | 0.012                                 | 0.011                                       | 12.00 13.40 40 x 80           |
| 120000                       | 382LX124M025B082V   | 0.012                                 | 0.011                                       | 15.29 17.58 50 x 80           |
| 150000                       | 382LX154M025N102    | 0.011                                 | 0.010                                       | 14.07 16.18 40 x 105          |
| 150000                       | 382LX154M025B092V   | 0.011                                 | 0.010                                       | 16.01 18.41 50 x 92           |
| 180000                       | 382LX184M025B102V   | 0.010                                 | 0.009                                       | 16.89 19.42 50 x 105          |
| <b>35 Vdc (44 Vdc Surge)</b> |                     |                                       |                                             |                               |
| 2200                         | 380LX222M035H202    | 0.211                                 | 0.160                                       | 1.40 1.60 22 x 20             |
| 2200                         | 380LX222M035H012    | 0.166                                 | 0.125                                       | 1.50 1.75 22 x 25             |
| 3300                         | 380LX332M035H012    | 0.110                                 | 0.085                                       | 2.30 2.60 22 x 25             |
| 3300                         | 380LX332M035J202    | 0.120                                 | 0.090                                       | 1.70 2.00 25 x 20             |
| 3900                         | 380LX392M035H012    | 0.095                                 | 0.070                                       | 2.70 3.10 22 x 25             |
| 4700                         | 380LX472M035H022    | 0.080                                 | 0.060                                       | 3.30 3.70 22 x 30             |
| 4700                         | 380LX472M035J012    | 0.080                                 | 0.060                                       | 3.30 3.70 25 x 25             |
| 4700                         | 380LX472M035K202    | 0.090                                 | 0.066                                       | 2.00 2.30 30 x 20             |
| 5600                         | 380LX562M035H022    | 0.083                                 | 0.063                                       | 3.40 3.90 22 x 30             |
| 5600                         | 380LX562M035J012    | 0.083                                 | 0.063                                       | 3.40 3.90 25 x 25             |
| 6800                         | 380LX682M035H032    | 0.068                                 | 0.051                                       | 3.70 4.20 22 x 35             |
| 6800                         | 380LX682M035A202    | 0.070                                 | 0.053                                       | 2.40 2.80 35 x 20             |
| 6800                         | 380LX682M035J022    | 0.069                                 | 0.051                                       | 3.70 4.20 25 x 30             |
| 8200                         | 380LX822M035H042    | 0.057                                 | 0.043                                       | 4.00 4.60 22 x 40             |
| 8200                         | 380LX822M035J032    | 0.057                                 | 0.043                                       | 4.00 4.60 25 x 35             |
| 10000                        | 380LX103M035H452    | 0.050                                 | 0.037                                       | 4.40 5.10 22 x 45             |
| 10000                        | 380LX103M035J042    | 0.050                                 | 0.037                                       | 4.40 5.10 25 x 40             |
| 10000                        | 380LX103M035K022    | 0.050                                 | 0.037                                       | 4.40 5.10 30 x 30             |
| 10000                        | 380LX103M035A012    | 0.050                                 | 0.037                                       | 4.40 5.10 35 x 25             |

| Cap.<br>(µF)                 | Catalog Part Number | Max. ESR<br>Ω@ 25 °C<br>120 Hz 20 kHz | Ripple Amps<br>Max. @ 85 °C<br>120 Hz20 kHz | Nominal<br>Size D x L<br>(mm) |
|------------------------------|---------------------|---------------------------------------|---------------------------------------------|-------------------------------|
| 12000                        | 380LX123M035J452    | 0.044                                 | 0.033                                       | 5.10 5.80 25 x 45             |
| 12000                        | 380LX123M035K032    | 0.044                                 | 0.033                                       | 5.10 5.80 30 x 35             |
| 12000                        | 380LX123M035A022    | 0.044                                 | 0.033                                       | 5.10 5.80 35 x 30             |
| 15000                        | 380LX153M035J052    | 0.036                                 | 0.027                                       | 5.60 6.40 25 x 50             |
| 15000                        | 380LX153M035K042    | 0.036                                 | 0.027                                       | 5.60 6.40 30 x 40             |
| 15000                        | 380LX153M035A022    | 0.036                                 | 0.027                                       | 5.60 6.40 35 x 30             |
| 18000                        | 380LX183M035K452    | 0.030                                 | 0.023                                       | 5.70 6.50 30 x 45             |
| 18000                        | 380LX183M035A032    | 0.030                                 | 0.023                                       | 5.70 6.50 35 x 35             |
| 22000                        | 380LX223M035K052    | 0.026                                 | 0.020                                       | 6.10 7.00 30 x 50             |
| 22000                        | 380LX223M035A042    | 0.026                                 | 0.020                                       | 6.10 7.00 35 x 40             |
| 27000                        | 380LX273M035A452    | 0.021                                 | 0.017                                       | 6.80 7.90 35 x 45             |
| 27000                        | 382LX273M035N042    | 0.021                                 | 0.017                                       | 6.80 7.90 40 x 40             |
| 33000                        | 380LX333M035A052    | 0.018                                 | 0.014                                       | 7.15 8.22 35 x 50             |
| 33000                        | 380L333M035A062     | 0.018                                 | 0.009                                       | 7.80 8.70 35 x 63             |
| 39000                        | 380LX393M035A062    | 0.015                                 | 0.012                                       | 7.90 9.10 35 x 63             |
| 39000                        | 380L393M035A072     | 0.015                                 | 0.008                                       | 8.60 9.50 35 x 70             |
| 39000                        | 382LX393M035N052    | 0.017                                 | 0.014                                       | 8.00 9.20 40 x 50             |
| 47000                        | 380LX473M035A082    | 0.015                                 | 0.011                                       | 9.50 10.90 35 x 80            |
| 47000                        | 382LX473M035N062    | 0.016                                 | 0.013                                       | 9.60 11.00 40 x 63            |
| 56000                        | 382LX563M035B052V   | 0.015                                 | 0.012                                       | 10.94 12.58 50 x 50           |
| 56000                        | 382LX563M035N082    | 0.015                                 | 0.012                                       | 10.30 11.90 40 x 80           |
| 68000                        | 380LX683M035A102    | 0.010                                 | 0.008                                       | 10.62 12.21 35 x 105          |
| 68000                        | 382LX683M035B062V   | 0.013                                 | 0.011                                       | 11.93 13.72 50 x 63           |
| 82000                        | 382LX823M035N102    | 0.012                                 | 0.009                                       | 12.02 13.82 40 x 105          |
| 82000                        | 382LX823M035B082V   | 0.012                                 | 0.010                                       | 13.06 15.02 50 x 80           |
| 100000                       | 382LX104M035B092V   | 0.011                                 | 0.009                                       | 13.97 16.07 50 x 92           |
| 120000                       | 382LX124M035B102V   | 0.010                                 | 0.008                                       | 14.86 17.09 50 x 105          |
| <b>50 Vdc (63 Vdc Surge)</b> |                     |                                       |                                             |                               |
| 1500                         | 380LX152M050H202    | 0.255                                 | 0.200                                       | 1.20 1.40 22 x 20             |
| 1500                         | 380LX152M050H012    | 0.220                                 | 0.170                                       | 1.25 1.45 22 x 25             |
| 2200                         | 380LX222M050H012    | 0.150                                 | 0.115                                       | 1.80 2.10 22 x 25             |
| 2200                         | 380LX222M050J202    | 0.175                                 | 0.130                                       | 1.40 1.60 25 x 20             |
| 2700                         | 380LX272M050H012    | 0.125                                 | 0.095                                       | 2.20 2.60 22 x 25             |
| 3300                         | 380LX332M050H022    | 0.100                                 | 0.075                                       | 2.70 3.10 22 x 30             |
| 3300                         | 380LX332M050J012    | 0.100                                 | 0.075                                       | 2.70 3.10 25 x 25             |
| 3300                         | 380LX332M050K202    | 0.117                                 | 0.090                                       | 1.70 2.00 30 x 20             |
| 3900                         | 380LX392M050H022    | 0.085                                 | 0.065                                       | 2.80 3.20 22 x 30             |
| 3900                         | 380LX392M050J012    | 0.085                                 | 0.065                                       | 2.80 3.20 25 x 25             |
| 4700                         | 380LX472M050H032    | 0.070                                 | 0.055                                       | 3.00 3.50 22 x 35             |
| 4700                         | 380LX472M050J022    | 0.070                                 | 0.055                                       | 3.00 3.50 25 x 30             |
| 4700                         | 380LX472M050K012    | 0.070                                 | 0.055                                       | 3.00 3.50 30 x 25             |
| 4700                         | 380LX472M050A202    | 0.080                                 | 0.060                                       | 2.10 2.40 35 x 20             |
| 5600                         | 380LX562M050H042    | 0.060                                 | 0.045                                       | 3.40 3.90 22 x 40             |
| 5600                         | 380LX562M050J032    | 0.060                                 | 0.045                                       | 3.40 3.90 25 x 35             |
| 5600                         | 380LX562M050K022    | 0.060                                 | 0.045                                       | 3.40 3.90 30 x 30             |
| 6800                         | 380LX682M050H052    | 0.050                                 | 0.040                                       | 3.90 4.40 22 x 50             |
| 6800                         | 380LX682M050J042    | 0.050                                 | 0.040                                       | 3.90 4.40 25 x 40             |
| 6800                         | 380LX682M050K022    | 0.050                                 | 0.040                                       | 3.90 4.40 30 x 30             |
| 8200                         | 380LX822M050J452    | 0.040                                 | 0.030                                       | 4.40 5.10 25 x 45             |
| 8200                         | 380LX822M050K032    | 0.040                                 | 0.030                                       | 4.40 5.10 30 x 35             |
| 10000                        | 380LX103M050J052    | 0.040                                 | 0.030                                       | 5.00 5.70 25 x 50             |
| 10000                        | 380LX103M050K042    | 0.040                                 | 0.030                                       | 5.00 5.70 30 x 40             |
| 10000                        | 380LX103M050A022    | 0.040                                 | 0.030                                       | 5.00 5.70 35 x 30             |
| 12000                        | 380LX123M050K452    | 0.033                                 | 0.025                                       | 5.60 6.40 30 x 45             |
| 12000                        | 380LX123M050A032    | 0.033                                 | 0.025                                       | 5.60 6.40 35 x 35             |



# Types 380L, 382L, 380LX & 382LX, 85 °C High-Capacitance Snap-In

| Cap.<br>(µF)          | Catalog Part Number | Max. ESR<br>Ω@ 25 °C |        | Ripple Amps<br>Max. @ 85 °C |        | Nominal<br>Size D x L<br>(mm) |
|-----------------------|---------------------|----------------------|--------|-----------------------------|--------|-------------------------------|
|                       |                     | 120 Hz               | 20 kHz | 120 Hz                      | 20 kHz |                               |
| 15000                 | 380LX153M050K052    | 0.027                | 0.020  | 6.40                        | 7.40   | 30 x 50                       |
| 15000                 | 380LX153M050A042    | 0.027                | 0.020  | 6.40                        | 7.40   | 35 x 40                       |
| 18000                 | 380L183M050A062     | 0.018                | 0.010  | 7.80                        | 8.70   | 35 x 63                       |
| 18000                 | 380LX183M050A452    | 0.022                | 0.017  | 6.90                        | 7.90   | 35 x 45                       |
| 18000                 | 382LX183M050N042    | 0.023                | 0.017  | 6.94                        | 7.98   | 40 x 40                       |
| 22000                 | 380L223M050A072     | 0.015                | 0.008  | 8.60                        | 9.50   | 35 x 70                       |
| 22000                 | 380LX223M050A052    | 0.020                | 0.016  | 7.60                        | 8.70   | 35 x 50                       |
| 27000                 | 380L273M050A082     | 0.013                | 0.008  | 9.30                        | 10.10  | 35 x 80                       |
| 27000                 | 382L273M050N062     | 0.018                | 0.009  | 9.00                        | 9.60   | 40 x 63                       |
| 27000                 | 380LX273M050A062    | 0.018                | 0.015  | 8.30                        | 9.60   | 35 x 63                       |
| 27000                 | 382LX273M050N052    | 0.018                | 0.015  | 8.10                        | 9.30   | 40 x 50                       |
| 33000                 | 380LX333M050A082    | 0.015                | 0.012  | 9.20                        | 10.60  | 35 x 80                       |
| 33000                 | 382LX333M050N062    | 0.018                | 0.014  | 9.10                        | 10.50  | 40 x 63                       |
| 33000                 | 382LX333M050B052V   | 0.018                | 0.014  | 10.48                       | 12.05  | 50 x 50                       |
| 47000                 | 382LX473M050B062V   | 0.013                | 0.010  | 11.54                       | 13.27  | 50 x 63                       |
| 47000                 | 380LX473M050A102    | 0.014                | 0.011  | 10.27                       | 11.81  | 35 x 105                      |
| 56000                 | 382LX563M050N102    | 0.012                | 0.009  | 11.47                       | 13.19  | 40 x 105                      |
| 56000                 | 382LX563M050B082V   | 0.012                | 0.009  | 12.46                       | 14.33  | 50 x 80                       |
| 68000                 | 382LX683M050B092V   | 0.011                | 0.009  | 13.17                       | 15.15  | 50 x 92                       |
| 82000                 | 382LX823M050B102V   | 0.011                | 0.008  | 13.87                       | 15.95  | 50 x 105                      |
| 63 Vdc (79 Vdc Surge) |                     |                      |        |                             |        |                               |
| 1000                  | 380LX102M063H202    | 0.380                | 0.290  | 1.20                        | 1.40   | 22 x 20                       |
| 1000                  | 380LX102M063H012    | 0.332                | 0.250  | 1.20                        | 1.40   | 22 x 25                       |
| 1500                  | 380LX152M063H012    | 0.221                | 0.167  | 1.70                        | 2.00   | 25 x 20                       |
| 1500                  | 380LX152M063J202    | 0.250                | 0.190  | 1.30                        | 1.50   | 25 x 20                       |
| 2200                  | 380LX222M063H022    | 0.151                | 0.114  | 2.50                        | 2.90   | 22 x 30                       |
| 2200                  | 380LX222M063J012    | 0.151                | 0.114  | 2.50                        | 2.90   | 25 x 25                       |
| 2200                  | 380LX222M063K202    | 0.170                | 0.130  | 1.50                        | 1.70   | 30 x 20                       |
| 2700                  | 380LX272M063H032    | 0.123                | 0.093  | 3.70                        | 4.30   | 22 x 35                       |
| 2700                  | 380LX272M063J022    | 0.123                | 0.093  | 3.70                        | 4.30   | 25 x 30                       |
| 3300                  | 380LX332M063H042    | 0.110                | 0.080  | 4.10                        | 4.70   | 22 x 40                       |
| 3300                  | 380LX332M063J022    | 0.110                | 0.080  | 4.10                        | 4.70   | 25 x 30                       |
| 3300                  | 380LX332M063K012    | 0.110                | 0.080  | 4.10                        | 4.70   | 30 x 25                       |
| 3300                  | 380LX332M063A202    | 0.125                | 0.095  | 1.70                        | 2.00   | 35 x 20                       |
| 3900                  | 380LX392M063H452    | 0.100                | 0.075  | 4.40                        | 5.10   | 22 x 45                       |
| 3900                  | 380LX392M063J032    | 0.100                | 0.075  | 4.40                        | 5.10   | 25 x 35                       |
| 3900                  | 380LX392M063K022    | 0.100                | 0.075  | 4.40                        | 5.10   | 30 x 30                       |
| 4700                  | 380LX472M063H052    | 0.080                | 0.060  | 4.90                        | 5.60   | 22 x 50                       |
| 4700                  | 380LX472M063J042    | 0.080                | 0.060  | 4.90                        | 5.60   | 25 x 40                       |
| 4700                  | 380LX472M063K022    | 0.080                | 0.060  | 4.90                        | 5.60   | 30 x 30                       |
| 4700                  | 380LX472M063A012    | 0.080                | 0.060  | 4.90                        | 5.60   | 35 x 25                       |
| 5600                  | 380LX562M063A022    | 0.070                | 0.050  | 5.40                        | 6.20   | 35 x 30                       |
| 5600                  | 380LX562M063J452    | 0.070                | 0.050  | 5.40                        | 6.20   | 25 x 45                       |
| 5600                  | 380LX562M063K032    | 0.070                | 0.050  | 5.40                        | 6.20   | 30 x 35                       |
| 6800                  | 380LX682M063J052    | 0.060                | 0.045  | 5.80                        | 6.70   | 25 x 50                       |
| 6800                  | 380LX682M063K042    | 0.060                | 0.045  | 5.80                        | 6.70   | 30 x 40                       |
| 6800                  | 380LX682M063A022    | 0.060                | 0.045  | 5.80                        | 6.70   | 35 x 30                       |
| 8200                  | 380LX822M063K452    | 0.050                | 0.040  | 6.00                        | 6.90   | 30 x 45                       |
| 8200                  | 380LX822M063A032    | 0.050                | 0.040  | 6.00                        | 6.90   | 35 x 35                       |
| 10000                 | 382L103M063N042     | 0.028                | 0.017  | 6.60                        | 7.20   | 40 x 40                       |
| 10000                 | 380LX103M063A042    | 0.033                | 0.025  | 6.50                        | 7.50   | 35 x 40                       |
| 12000                 | 380L123M063A062     | 0.019                | 0.010  | 7.70                        | 8.60   | 35 x 63                       |
| 12000                 | 382LX123M063N042    | 0.035                | 0.028  | 7.15                        | 8.22   | 40 x 40                       |
| 15000                 | 380L153M063A072     | 0.016                | 0.009  | 8.50                        | 9.40   | 35 x 70                       |
| 15000                 | 380LX153M063A062    | 0.028                | 0.021  | 7.70                        | 8.90   | 35 x 63                       |

| Cap.<br>(µF)           | Catalog Part Number | Max. ESR<br>Ω@ 25 °C |        | Ripple Amps<br>Max. @ 85 °C |        | Nominal<br>Size D x L<br>(mm) |
|------------------------|---------------------|----------------------|--------|-----------------------------|--------|-------------------------------|
|                        |                     | 120 Hz               | 20 kHz | 120 Hz                      | 20 kHz |                               |
| 18000                  | 382LX183M063N062    | 0.028                | 0.022  | 9.25                        | 10.60  | 40 x 63                       |
| 18000                  | 380LX183M063A082    | 0.023                | 0.012  | 9.40                        | 10.80  | 35 x 80                       |
| 27000                  | 382LX273M063N082    | 0.018                | 0.015  | 10.00                       | 11.50  | 40 x 80                       |
| 27000                  | 380LX273M063A102    | 0.015                | 0.012  | 10.38                       | 11.94  | 35 x 105                      |
| 27000                  | 382LX273M063B052V   | 0.018                | 0.015  | 10.86                       | 12.49  | 50 x 50                       |
| 33000                  | 382LX333M063N102    | 0.015                | 0.012  | 11.76                       | 13.52  | 40 x 105                      |
| 33000                  | 382LX333M063B062V   | 0.017                | 0.013  | 11.57                       | 13.42  | 50 x 63                       |
| 47000                  | 382LX473M063B082V   | 0.013                | 0.010  | 12.78                       | 14.70  | 50 x 80                       |
| 51000                  | 382LX513M063B092V   | 0.012                | 0.010  | 13.34                       | 15.34  | 50 x 92                       |
| 56000                  | 382LX563M063B102V   | 0.012                | 0.009  | 13.93                       | 16.02  | 50 x 105                      |
| 80 Vdc (100 Vdc Surge) |                     |                      |        |                             |        |                               |
| 680                    | 380LX681M080H202    | 0.450                | 0.330  | 1.00                        | 1.20   | 22 x 20                       |
| 680                    | 380LX681M080H012    | 0.390                | 0.295  | 1.00                        | 1.20   | 22 x 25                       |
| 1000                   | 380LX102M080H012    | 0.265                | 0.200  | 1.50                        | 1.75   | 22 x 25                       |
| 1000                   | 380LX102M080J202    | 0.300                | 0.225  | 1.20                        | 1.40   | 25 x 20                       |
| 1200                   | 380LX122M080H012    | 0.220                | 0.170  | 1.80                        | 2.10   | 22 x 25                       |
| 1500                   | 380LX152M080H022    | 0.177                | 0.134  | 2.30                        | 2.60   | 22 x 30                       |
| 1500                   | 380LX152M080J012    | 0.177                | 0.134  | 2.30                        | 2.60   | 25 x 25                       |
| 1500                   | 380LX152M080K202    | 0.200                | 0.150  | 1.40                        | 1.60   | 30 x 20                       |
| 1800                   | 380LX182M080H032    | 0.147                | 0.109  | 2.50                        | 2.90   | 22 x 35                       |
| 1800                   | 380LX182M080J022    | 0.147                | 0.109  | 2.50                        | 2.90   | 25 x 30                       |
| 2200                   | 380LX222M080H042    | 0.121                | 0.092  | 2.70                        | 3.10   | 22 x 40                       |
| 2200                   | 380LX222M080J022    | 0.121                | 0.092  | 2.70                        | 3.10   | 25 x 30                       |
| 2200                   | 380LX222M080K012    | 0.121                | 0.092  | 2.70                        | 3.10   | 30 x 25                       |
| 2200                   | 380LX222M080A202    | 0.135                | 0.100  | 1.70                        | 2.00   | 35 x 20                       |
| 2700                   | 380LX272M080H452    | 0.098                | 0.075  | 2.80                        | 3.20   | 22 x 45                       |
| 2700                   | 380LX272M080J032    | 0.098                | 0.075  | 2.80                        | 3.20   | 25 x 35                       |
| 2700                   | 380LX272M080K022    | 0.098                | 0.075  | 2.80                        | 3.20   | 30 x 30                       |
| 3300                   | 380LX332M080H052    | 0.085                | 0.065  | 3.20                        | 3.70   | 22 x 50                       |
| 3300                   | 380LX332M080J042    | 0.085                | 0.065  | 3.20                        | 3.70   | 25 x 40                       |
| 3300                   | 380LX332M080K022    | 0.085                | 0.065  | 3.20                        | 3.70   | 30 x 30                       |
| 3900                   | 380LX392M080J452    | 0.080                | 0.060  | 3.60                        | 4.10   | 25 x 45                       |
| 3900                   | 380LX392M080K032    | 0.080                | 0.060  | 3.60                        | 4.10   | 30 x 35                       |
| 4700                   | 380LX472M080J052    | 0.065                | 0.050  | 4.10                        | 4.70   | 25 x 50                       |
| 4700                   | 380LX472M080K042    | 0.065                | 0.050  | 4.10                        | 4.70   | 30 x 40                       |
| 5600                   | 380LX562M080K452    | 0.055                | 0.040  | 4.60                        | 5.20   | 30 x 45                       |
| 5600                   | 380LX562M080A032    | 0.055                | 0.040  | 4.60                        | 5.20   | 35 x 35                       |
| 6800                   | 380LX682M080K052    | 0.045                | 0.035  | 5.20                        | 5.90   | 30 x 50                       |
| 6800                   | 380LX682M080A042    | 0.045                | 0.035  | 5.20                        | 5.90   | 35 x 40                       |
| 8200                   | 380LX822M080A052    | 0.040                | 0.030  | 5.80                        | 6.70   | 35 x 50                       |
| 8200                   | 382LX822M080N042    | 0.040                | 0.030  | 5.83                        | 6.70   | 40 x 40                       |
| 10000                  | 380LX103M080A062    | 0.033                | 0.025  | 6.40                        | 7.34   | 35 x 63                       |
| 12000                  | 380L123M080A072     | 0.020                | 0.012  | 8.10                        | 9.00   | 35 x 70                       |
| 12000                  | 382L123M080N052     | 0.025                | 0.016  | 7.50                        | 8.00   | 40 x 50                       |
| 15000                  | 380L153M080A082     | 0.017                | 0.010  | 8.80                        | 9.60   | 35 x 80                       |
| 15000                  | 382L153M080N062     | 0.020                | 0.013  | 8.50                        | 9.20   | 40 x 63                       |
| 18000                  | 382L183M080N082     | 0.014                | 0.009  | 10.30                       | 10.80  | 40 x 80                       |
| 18000                  | 382LX183M080B052V   | 0.023                | 0.017  | 10.00                       | 11.50  | 50 x 50                       |
| 22000                  | 380LX223M080A102    | 0.015                | 0.011  | 9.86                        | 11.34  | 35 x 105                      |
| 22000                  | 382LX223M080B062V   | 0.019                | 0.014  | 11.08                       | 12.74  | 50 x 63                       |
| 27000                  | 382LX273M080N102    | 0.015                | 0.012  | 11.35                       | 13.05  | 40 x 105                      |
| 27000                  | 382LX273M080B082V   | 0.015                | 0.012  | 12.33                       | 14.18  | 50 x 80                       |
| 33000                  | 382LX333M080B092V   | 0.014                | 0.010  | 13.37                       | 15.38  | 50 x 92                       |
| 39000                  | 382LX393M080B102V   | 0.013                | 0.010  | 14.34                       | 16.49  | 50 x 105                      |

# Types 380L, 382L, 380LX & 382LX, 85 °C High-Capacitance Snap-In

| Cap.<br>(µF)            | Catalog Part Number | Max. ESR<br>Ω @ 25 °C |        | Ripple Amps<br>Max. @ 85 °C |        | Nominal<br>Size D x L<br>(mm) |
|-------------------------|---------------------|-----------------------|--------|-----------------------------|--------|-------------------------------|
|                         |                     | 120 Hz                | 20 kHz | 120 Hz                      | 20 kHz |                               |
| 100 Vdc (125 Vdc Surge) |                     |                       |        |                             |        |                               |
| 470                     | 380LX471M100H202    | 0.450                 | 0.300  | 1.00                        | 1.20   | 22 x 20                       |
| 470                     | 380LX471M100H212    | 0.450                 | 0.300  | 1.10                        | 1.30   | 22 x 25                       |
| 560                     | 380LX561M100H012    | 0.400                 | 0.250  | 1.30                        | 1.50   | 22 x 25                       |
| 680                     | 380LX681M100H012    | 0.320                 | 0.210  | 1.60                        | 1.85   | 22 x 25                       |
| 680                     | 380LX681M100J202    | 0.390                 | 0.295  | 1.10                        | 1.30   | 25 x 20                       |
| 1000                    | 380LX102M100H022    | 0.220                 | 0.150  | 2.00                        | 2.30   | 22 x 30                       |
| 1000                    | 380LX102M100J012    | 0.220                 | 0.150  | 2.00                        | 2.30   | 25 x 25                       |
| 1000                    | 380LX102M100K202    | 0.250                 | 0.165  | 1.20                        | 1.40   | 30 x 20                       |
| 1200                    | 380LX122M100H032    | 0.195                 | 0.125  | 2.30                        | 2.70   | 22 x 35                       |
| 1200                    | 380LX122M100J022    | 0.180                 | 0.120  | 2.30                        | 2.70   | 25 x 30                       |
| 1500                    | 380LX152M100H042    | 0.155                 | 0.100  | 2.60                        | 3.00   | 22 x 40                       |
| 1500                    | 380LX152M100J022    | 0.155                 | 0.100  | 2.60                        | 3.00   | 25 x 30                       |
| 1500                    | 380LX152M100K012    | 0.155                 | 0.100  | 2.60                        | 3.00   | 30 x 25                       |
| 1500                    | 380LX152M100A202    | 0.177                 | 0.120  | 1.50                        | 1.70   | 35 x 20                       |
| 1800                    | 380LX182M100H452    | 0.130                 | 0.085  | 2.80                        | 3.30   | 22 x 45                       |
| 1800                    | 380LX182M100J032    | 0.140                 | 0.090  | 2.80                        | 3.30   | 25 x 35                       |
| 1800                    | 380LX182M100K022    | 0.140                 | 0.090  | 2.80                        | 3.30   | 30 x 30                       |
| 2200                    | 380LX222M100H052    | 0.121                 | 0.080  | 3.10                        | 3.60   | 22 x 50                       |
| 2200                    | 380LX222M100J042    | 0.121                 | 0.080  | 3.10                        | 3.60   | 25 x 40                       |
| 2200                    | 380LXM222100K022    | 0.121                 | 0.080  | 3.10                        | 3.60   | 30 x 30                       |
| 2200                    | 380LX222M100A012    | 0.121                 | 0.078  | 3.14                        | 3.61   | 35 x 25                       |
| 2700                    | 380LX272M100J452    | 0.104                 | 0.068  | 3.70                        | 4.30   | 25 x 45                       |
| 2700                    | 380LX272M100K032    | 0.104                 | 0.068  | 3.70                        | 4.30   | 30 x 35                       |
| 2700                    | 380LX272M100A022    | 0.104                 | 0.068  | 3.70                        | 4.30   | 35 x 30                       |
| 3300                    | 380LX332M100J052    | 0.090                 | 0.060  | 4.10                        | 4.70   | 25 x 50                       |
| 3300                    | 380LX332M100K042    | 0.090                 | 0.060  | 4.10                        | 4.70   | 30 x 40                       |
| 3900                    | 380LX392M100K452    | 0.080                 | 0.050  | 4.50                        | 5.20   | 30 x 45                       |
| 3900                    | 380LX392M100A032    | 0.080                 | 0.050  | 4.50                        | 5.20   | 35 x 35                       |
| 4700                    | 380LX472M100K052    | 0.070                 | 0.050  | 5.10                        | 5.90   | 30 x 50                       |
| 4700                    | 380LX472M100A042    | 0.070                 | 0.050  | 5.10                        | 5.90   | 35 x 40                       |
| 5600                    | 382LX562M100N042    | 0.060                 | 0.045  | 5.80                        | 6.60   | 40 x 40                       |
| 5600                    | 380LX562M100A452    | 0.060                 | 0.040  | 5.80                        | 6.60   | 35 x 45                       |
| 6800                    | 380LX682M100A052    | 0.050                 | 0.040  | 6.60                        | 7.60   | 35 x 50                       |
| 6800                    | 380L682M100A062     | 0.024                 | 0.014  | 7.20                        | 8.10   | 35 x 63                       |
| 6800                    | 382L682M100N052     | 0.026                 | 0.017  | 7.40                        | 7.90   | 40 x 50                       |
| 8200                    | 380LX822M100A062    | 0.040                 | 0.030  | 7.00                        | 8.10   | 35 x 63                       |
| 8200                    | 380L822M100A072     | 0.021                 | 0.012  | 8.00                        | 8.90   | 35 x 70                       |
| 8200                    | 382LX822M100N052    | 0.040                 | 0.030  | 7.30                        | 8.40   | 40 x 50                       |
| 8200                    | 382L822M100N062     | 0.021                 | 0.013  | 8.40                        | 9.10   | 40 x 63                       |
| 10000                   | 380LX103M100A082    | 0.033                 | 0.025  | 8.70                        | 9.60   | 35 x 80                       |
| 10000                   | 382LX103M100N062    | 0.033                 | 0.025  | 8.00                        | 9.20   | 40 x 63                       |
| 10000                   | 382LX103M100B052V   | 0.033                 | 0.025  | 8.82                        | 10.14  | 50 x 50                       |
| 12000                   | 382LX123M100N082    | 0.028                 | 0.021  | 8.65                        | 10.00  | 40 x 80                       |
| 12000                   | 380LX123M100A102    | 0.028                 | 0.021  | 8.57                        | 9.86   | 35 x 105                      |
| 15000                   | 382LX153M100N102    | 0.022                 | 0.017  | 10.12                       | 11.64  | 40 x 105                      |
| 15000                   | 382LX153M100B062V   | 0.022                 | 0.017  | 10.07                       | 11.58  | 50 x 63                       |
| 18000                   | 382LX183M100B082V   | 0.018                 | 0.014  | 11.00                       | 12.65  | 50 x 80                       |
| 22000                   | 382LX223M100B092V   | 0.015                 | 0.011  | 11.76                       | 13.52  | 50 x 92                       |
| 27000                   | 382LX273M100B102V   | 0.014                 | 0.010  | 12.53                       | 14.41  | 50 x 105                      |
| 160 Vdc (200 Vdc Surge) |                     |                       |        |                             |        |                               |
| 220                     | 380LX221M160H202    | 1.000                 | 0.500  | 0.80                        | 1.10   | 22 x 20                       |
| 220                     | 380LX221M160H012    | 0.850                 | 0.420  | 0.90                        | 1.25   | 22 x 25                       |
| 270                     | 380LX271M160H012    | 0.700                 | 0.340  | 1.20                        | 1.65   | 22 x 25                       |
| 270                     | 380LX271M160J202    | 0.800                 | 0.400  | 0.90                        | 1.20   | 25 x 20                       |

| Cap.<br>(µF)            | Catalog Part Number | Max. ESR<br>Ω @ 25 °C |        | Ripple Amps<br>Max. @ 85 °C |        | Nominal<br>Size D x L<br>(mm) |
|-------------------------|---------------------|-----------------------|--------|-----------------------------|--------|-------------------------------|
|                         |                     | 120 Hz                | 20 kHz | 120 Hz                      | 20 kHz |                               |
| 330                     | 380LX331M160H012    | 0.603                 | 0.308  | 1.50                        | 2.00   | 22 x 25                       |
| 390                     | 380LX391M160H012    | 0.470                 | 0.240  | 1.60                        | 2.30   | 22 x 25                       |
| 390                     | 380LX391M160H022    | 0.470                 | 0.240  | 1.60                        | 2.30   | 22 x 30                       |
| 390                     | 380LX391M160J012    | 0.470                 | 0.240  | 1.60                        | 2.30   | 25 x 25                       |
| 390                     | 380LX391M160K202    | 0.600                 | 0.300  | 1.10                        | 1.50   | 30 x 20                       |
| 470                     | 380LX471M160H022    | 0.423                 | 0.216  | 2.10                        | 3.00   | 22 x 30                       |
| 470                     | 380LX471M160J012    | 0.423                 | 0.216  | 2.10                        | 3.00   | 25 x 25                       |
| 560                     | 380LX561M160H022    | 0.355                 | 0.178  | 2.25                        | 3.15   | 22 x 30                       |
| 560                     | 380LX561M160J012    | 0.355                 | 0.178  | 2.25                        | 3.15   | 25 x 25                       |
| 560                     | 380LX561M160A202    | 0.420                 | 0.210  | 1.30                        | 1.80   | 35 x 20                       |
| 680                     | 380LX681M160H032    | 0.293                 | 0.146  | 2.50                        | 3.50   | 22 x 35                       |
| 680                     | 380LX681M160J022    | 0.293                 | 0.146  | 2.50                        | 3.50   | 25 x 30                       |
| 680                     | 380LX681M160K012    | 0.293                 | 0.149  | 2.50                        | 3.50   | 30 x 25                       |
| 820                     | 380LX821M160H042    | 0.260                 | 0.130  | 2.50                        | 3.50   | 22 x 40                       |
| 820                     | 380LX821M160H452    | 0.260                 | 0.130  | 2.80                        | 3.90   | 22 x 45                       |
| 820                     | 380LX821M160J032    | 0.260                 | 0.130  | 2.80                        | 3.90   | 25 x 35                       |
| 820                     | 380LX821M160K012    | 0.260                 | 0.130  | 2.75                        | 3.85   | 30 x 25                       |
| 1000                    | 380LX102M160H452    | 0.220                 | 0.110  | 3.00                        | 4.20   | 22 x 45                       |
| 1000                    | 380LX102M160J042    | 0.220                 | 0.110  | 3.00                        | 4.20   | 25 x 40                       |
| 1000                    | 380LX102M160K022    | 0.220                 | 0.110  | 3.00                        | 4.20   | 30 x 30                       |
| 1200                    | 380LX122M160J052    | 0.210                 | 0.115  | 3.25                        | 4.55   | 25 x 50                       |
| 1200                    | 380LX102M160K032    | 0.210                 | 0.115  | 3.25                        | 4.55   | 30 x 35                       |
| 1200                    | 380LX122M160A022    | 0.210                 | 0.115  | 3.25                        | 4.55   | 35 x 30                       |
| 1500                    | 380LX152M160J052    | 0.170                 | 0.090  | 3.70                        | 5.20   | 25 x 50                       |
| 1500                    | 380LX152M160K032    | 0.170                 | 0.090  | 3.70                        | 5.20   | 30 x 35                       |
| 1500                    | 380LX152M160A022    | 0.166                 | 0.091  | 3.73                        | 5.22   | 35 x 30                       |
| 1800                    | 380LX182M160K052    | 0.140                 | 0.085  | 4.20                        | 5.90   | 30 x 50                       |
| 1800                    | 380LX182M160A032    | 0.140                 | 0.085  | 4.20                        | 5.90   | 35 x 35                       |
| 2200                    | 380LX222M160K052    | 0.105                 | 0.053  | 4.78                        | 6.69   | 30 x 50                       |
| 2200                    | 380LX222M160A042    | 0.115                 | 0.075  | 4.78                        | 6.69   | 35 x 40                       |
| 2700                    | 380LX272M160A052    | 0.090                 | 0.060  | 5.50                        | 7.60   | 35 x 50                       |
| 2700                    | 382LX272M160N042    | 0.080                 | 0.045  | 5.50                        | 7.60   | 40 x 40                       |
| 3300                    | 380LX332M160A062    | 0.065                 | 0.040  | 6.30                        | 8.80   | 35 x 63                       |
| 3300                    | 380LX332M160N052    | 0.065                 | 0.040  | 6.30                        | 8.80   | 40 x 50                       |
| 3900                    | 380LX392M160A082    | 0.055                 | 0.030  | 7.30                        | 10.20  | 35 x 80                       |
| 3900                    | 380LX392M160N062    | 0.055                 | 0.030  | 7.30                        | 10.20  | 40 x 63                       |
| 4700                    | 382L472M160N082     | 0.036                 | 0.020  | 6.60                        | 8.50   | 40 x 80                       |
| 5600                    | 382LX562M160N082    | 0.040                 | 0.020  | 8.30                        | 11.70  | 40 x 80                       |
| 5600                    | 382LX562M160B052V   | 0.040                 | 0.020  | 8.25                        | 9.50   | 50 x 50                       |
| 6800                    | 380LX682M160A102    | 0.032                 | 0.017  | 9.10                        | 12.70  | 35 x 105                      |
| 8200                    | 382LX822M160B062V   | 0.026                 | 0.015  | 8.90                        | 12.50  | 50 x 63                       |
| 10000                   | 382LX103M160N102    | 0.022                 | 0.012  | 9.90                        | 13.80  | 40 x 105                      |
| 10000                   | 382LX103M160B082V   | 0.022                 | 0.012  | 9.80                        | 13.70  | 50 x 80                       |
| 12000                   | 382LX123M160B092V   | 0.018                 | 0.010  | 12.90                       | 18.10  | 50 x 92                       |
| 15000                   | 382LX153M160B092V   | 0.014                 | 0.008  | 14.10                       | 19.70  | 50 x105                       |
| 180 Vdc (225 Vdc Surge) |                     |                       |        |                             |        |                               |
| 330                     | 380LX331M180H012    | 0.603                 | 0.308  | 1.80                        | 2.50   | 22 x 25                       |
| 390                     | 380LX391M180H022    | 0.510                 | 0.260  | 1.20                        | 1.60   | 22 x 30                       |
| 390                     | 380LX391M180J012    | 0.510                 | 0.260  | 1.20                        | 1.60   | 25 x 25                       |
| 470                     | 380LX471M180H032    | 0.423                 | 0.216  | 2.10                        | 2.90   | 22 x 35                       |
| 470                     | 380LX471M180J012    | 0.423                 | 0.216  | 2.10                        | 2.90   | 25 x 25                       |
| 560                     | 380LX561M180H032    | 0.355                 | 0.181  | 2.30                        | 3.20   | 22 x 35                       |
| 560                     | 380LX561M180J022    | 0.355                 | 0.181  | 2.30                        | 3.20   | 25 x 30                       |
| 680                     | 380LX681M180H042    | 0.293                 | 0.149  | 2.50                        | 3.50   | 22 x 40                       |
| 680                     | 380LX681M180J032    | 0.293                 | 0.149  | 2.50                        | 3.50   | 25 x 35                       |

# Types 380L, 382L, 380LX & 382LX, 85 °C High-Capacitance Snap-In

| Cap.<br>(µF)            | Catalog Part Number | Max. ESR<br>Ω @ 25 °C |        | Ripple Amps<br>Max. @ 85 °C |        | Nominal<br>Size D x L<br>(mm) |
|-------------------------|---------------------|-----------------------|--------|-----------------------------|--------|-------------------------------|
|                         |                     | 120 Hz                | 20 kHz | 120 Hz                      | 20 kHz |                               |
| 680                     | 380LX681M180K022    | 0.293                 | 0.149  | 2.50                        | 3.50   | 30 x 30                       |
| 820                     | 380LX821M180H452    | 0.243                 | 0.124  | 2.80                        | 3.90   | 22 x 45                       |
| 820                     | 380LX821M180J042    | 0.243                 | 0.124  | 2.80                        | 3.90   | 25 x 40                       |
| 820                     | 380LX821M180K022    | 0.243                 | 0.124  | 2.80                        | 3.90   | 30 x 30                       |
| 1000                    | 380LX102M180J452    | 0.199                 | 0.102  | 3.00                        | 4.20   | 25 x 45                       |
| 1000                    | 380LX102M180K032    | 0.199                 | 0.102  | 3.00                        | 4.20   | 30 x 35                       |
| 1200                    | 380LX122M180J052    | 0.166                 | 0.085  | 3.30                        | 4.60   | 25 x 50                       |
| 1200                    | 380LX122M180K042    | 0.166                 | 0.085  | 3.30                        | 4.60   | 30 x 40                       |
| 1200                    | 380LX122M180A032    | 0.166                 | 0.085  | 3.30                        | 4.60   | 35 x 35                       |
| 1500                    | 380LX152M180K452    | 0.133                 | 0.068  | 3.80                        | 5.40   | 30 x 45                       |
| 1500                    | 380LX152M180A042    | 0.133                 | 0.068  | 3.80                        | 5.40   | 35 x 40                       |
| 1800                    | 380LX182M180K052    | 0.111                 | 0.057  | 4.30                        | 6.00   | 30 x 50                       |
| 1800                    | 380LX182M180A042    | 0.111                 | 0.057  | 4.30                        | 6.00   | 35 x 40                       |
| 2200                    | 380LX222M180A052    | 0.090                 | 0.046  | 4.90                        | 6.90   | 35 x 50                       |
| 2700                    | 382L272M180N062     | 0.051                 | 0.027  | 5.00                        | 6.50   | 40 x 63                       |
| 2700                    | 380L272M180A072     | 0.054                 | 0.027  | 4.80                        | 6.20   | 35 x 70                       |
| 3300                    | 380L332M180A082     | 0.046                 | 0.023  | 5.40                        | 7.10   | 35 x 80                       |
| 4700                    | 382L472M180N082     | 0.036                 | 0.020  | 6.60                        | 8.50   | 40 x 80                       |
| 200 Vdc (250 Vdc Surge) |                     |                       |        |                             |        |                               |
| 150                     | 380LX151M200H202    | 1.330                 | 0.600  | 0.65                        | 0.90   | 22 x 20                       |
| 150                     | 380LX151M200H012    | 1.220                 | 0.550  | 0.70                        | 1.00   | 22 x 25                       |
| 220                     | 380LX221M200H012    | 0.083                 | 0.380  | 1.00                        | 1.45   | 22 x 25                       |
| 220                     | 380LX221M200J202    | 0.905                 | 0.410  | 0.90                        | 1.20   | 25 x 20                       |
| 270                     | 380LX271M200H012    | 0.610                 | 0.280  | 1.40                        | 2.00   | 22 x 25                       |
| 330                     | 380LX331M200H012    | 0.550                 | 0.250  | 1.60                        | 2.20   | 22 x 25                       |
| 330                     | 380LX331M200K202    | 0.603                 | 0.308  | 1.00                        | 1.40   | 30 x 20                       |
| 390                     | 380LX391M200H022    | 0.470                 | 0.210  | 1.70                        | 2.40   | 22 x 30                       |
| 390                     | 380LX391M200J012    | 0.470                 | 0.210  | 1.70                        | 2.40   | 25 x 25                       |
| 470                     | 380LX471M200H032    | 0.390                 | 0.180  | 1.90                        | 2.60   | 22 x 35                       |
| 470                     | 380LX471M200J022    | 0.390                 | 0.180  | 1.90                        | 2.60   | 25 x 30                       |
| 470                     | 380LX471M200K012    | 0.423                 | 0.216  | 1.90                        | 2.60   | 30 x 25                       |
| 470                     | 380LX471M200A202    | 0.460                 | 0.210  | 1.30                        | 1.80   | 35 x 20                       |
| 560                     | 380LX561M200H042    | 0.330                 | 0.150  | 2.40                        | 3.40   | 22 x 40                       |
| 560                     | 380LX561M200J022    | 0.330                 | 0.150  | 2.43                        | 3.40   | 25 x 30                       |
| 560                     | 380LX561M200K012    | 0.330                 | 0.150  | 2.40                        | 3.40   | 30 x 25                       |
| 680                     | 380LX681M200H452    | 0.270                 | 0.120  | 2.70                        | 3.80   | 22 x 45                       |
| 680                     | 380LX681M200J032    | 0.270                 | 0.120  | 2.70                        | 3.80   | 25 x 35                       |
| 680                     | 380LX681M200K022    | 0.270                 | 0.120  | 2.70                        | 3.80   | 30 x 30                       |
| 820                     | 380LX821M200J452    | 0.220                 | 0.100  | 2.90                        | 4.10   | 25 x 45                       |
| 820                     | 380LX821M200K022    | 0.220                 | 0.100  | 2.90                        | 4.10   | 30 x 30                       |
| 820                     | 380LX821M200A012    | 0.243                 | 0.124  | 2.90                        | 4.10   | 35 x 25                       |
| 1000                    | 380LX102M200J452    | 0.199                 | 0.090  | 3.25                        | 4.55   | 25 x 45                       |
| 1000                    | 380LX102M200K032    | 0.199                 | 0.090  | 3.25                        | 4.55   | 30 x 35                       |
| 1000                    | 380LX102M200A022    | 0.199                 | 0.102  | 3.30                        | 4.60   | 35 x 30                       |
| 1200                    | 380LX122M200K042    | 0.166                 | 0.075  | 3.50                        | 4.90   | 30 x 40                       |
| 1200                    | 380LX122M200A022    | 0.166                 | 0.075  | 3.50                        | 4.90   | 35 x 30                       |
| 1500                    | 380LX152M200K452    | 0.144                 | 0.072  | 3.87                        | 5.42   | 30 x 45                       |
| 1500                    | 380LX152M200A032    | 0.144                 | 0.072  | 3.87                        | 5.42   | 35 x 35                       |
| 1800                    | 380LX182M200K052    | 0.120                 | 0.060  | 4.32                        | 6.05   | 30 x 50                       |
| 1800                    | 380LX182M200A042    | 0.120                 | 0.060  | 4.32                        | 6.05   | 35 x 40                       |
| 2200                    | 380LX222M200A452    | 0.098                 | 0.054  | 4.92                        | 6.89   | 35 x 45                       |
| 2200                    | 382LX222M200N042    | 0.098                 | 0.054  | 4.92                        | 6.89   | 40 x 40                       |
| 2700                    | 380LX272M200A062    | 0.080                 | 0.045  | 5.50                        | 7.70   | 35 x 63                       |
| 2700                    | 382LX272M200N052    | 0.080                 | 0.045  | 5.40                        | 7.60   | 40 x 50                       |
| 3300                    | 380LX332M200A082    | 0.065                 | 0.037  | 6.40                        | 9.00   | 35 x 80                       |

| Cap.<br>(µF)            | Catalog Part Number | Max. ESR<br>Ω @ 25 °C |        | Ripple Amps<br>Max. @ 85 °C |        | Nominal<br>Size D x L<br>(mm) |
|-------------------------|---------------------|-----------------------|--------|-----------------------------|--------|-------------------------------|
|                         |                     | 120 Hz                | 20 kHz | 120 Hz                      | 20 kHz |                               |
| 3300                    | 382LX332M200N062    | 0.065                 | 0.037  | 6.30                        | 8.90   | 40 x 63                       |
| 3900                    | 382LX392M200B052V   | 0.055                 | 0.030  | 8.22                        | 9.45   | 50 x 50                       |
| 3900                    | 382LX392M200N082    | 0.064                 | 0.033  | 6.40                        | 9.00   | 40 x 80                       |
| 4700                    | 382LX472M200N082    | 0.046                 | 0.025  | 8.38                        | 11.73  | 40 x 80                       |
| 4700                    | 382LX472M200B062V   | 0.046                 | 0.025  | 9.32                        | 13.05  | 50 x 63                       |
| 5600                    | 380LX562M200A102    | 0.038                 | 0.021  | 8.90                        | 12.46  | 35 x 105                      |
| 6800                    | 382LX682M200N102    | 0.032                 | 0.017  | 8.65                        | 12.11  | 40 x 105                      |
| 6800                    | 382LX682M200B082V   | 0.032                 | 0.017  | 11.41                       | 15.97  | 50 x 80                       |
| 7500                    | 382LX752M200B092V   | 0.029                 | 0.016  | 12.28                       | 17.19  | 50 x 92                       |
| 8200                    | 382LX822M200B102V   | 0.026                 | 0.014  | 13.16                       | 18.42  | 50 x 105                      |
| 250 Vdc (300 Vdc Surge) |                     |                       |        |                             |        |                               |
| 120                     | 380LX121M250H202    | 1.658                 | 0.846  | 0.50                        | 0.60   | 22 x 20                       |
| 120                     | 380LX121M250H012    | 1.520                 | 0.610  | 0.71                        | 1.00   | 22 x 25                       |
| 150                     | 380LX151M250H012    | 1.220                 | 0.490  | 0.90                        | 1.25   | 22 x 25                       |
| 150                     | 380LX151M250J202    | 1.326                 | 0.530  | 0.70                        | 0.90   | 25 x 20                       |
| 180                     | 380LX181M250H012    | 0.920                 | 0.370  | 1.10                        | 1.50   | 22 x 25                       |
| 220                     | 380LX221M250H012    | 0.754                 | 0.301  | 1.17                        | 1.64   | 22 x 25                       |
| 220                     | 380LX221M250K202    | 0.830                 | 0.330  | 0.90                        | 1.20   | 30 x 20                       |
| 270                     | 380LX271M250H022    | 0.620                 | 0.250  | 1.30                        | 1.80   | 22 x 30                       |
| 270                     | 380LX271M250J012    | 0.620                 | 0.250  | 1.30                        | 1.80   | 25 x 25                       |
| 330                     | 380LX331M250H032    | 0.550                 | 0.220  | 1.80                        | 2.50   | 22 x 35                       |
| 330                     | 380LX331M250J022    | 0.550                 | 0.220  | 1.80                        | 2.50   | 25 x 30                       |
| 330                     | 380LX331M250K012    | 0.550                 | 0.220  | 1.80                        | 2.50   | 30 x 25                       |
| 330                     | 380LX331M250A202    | 0.550                 | 0.220  | 1.10                        | 1.50   | 35 x 20                       |
| 390                     | 380LX391M250H042    | 0.510                 | 0.260  | 1.90                        | 2.70   | 22 x 40                       |
| 390                     | 380LX391M250J022    | 0.468                 | 0.187  | 1.91                        | 2.67   | 25 x 30                       |
| 390                     | 380LX391M250K012    | 0.510                 | 0.260  | 1.90                        | 2.70   | 30 x 25                       |
| 470                     | 380LX471M250H452    | 0.390                 | 0.155  | 2.10                        | 3.00   | 22 x 45                       |
| 470                     | 380LX471M250J032    | 0.390                 | 0.155  | 2.10                        | 3.00   | 25 x 35                       |
| 470                     | 380LX471M250K012    | 0.353                 | 0.141  | 2.10                        | 3.00   | 30 x 25                       |
| 560                     | 380LX561M250J042    | 0.326                 | 0.130  | 2.30                        | 3.20   | 25 x 40                       |
| 560                     | 380LX561M250K022    | 0.326                 | 0.130  | 2.30                        | 3.20   | 30 x 30                       |
| 560                     | 380LX561M250A012    | 0.326                 | 0.130  | 2.30                        | 3.20   | 35 x 25                       |
| 680                     | 380LX681M250J452    | 0.268                 | 0.107  | 2.50                        | 3.50   | 25 x 45                       |
| 680                     | 380LX681M250K032    | 0.268                 | 0.107  | 2.50                        | 3.50   | 30 x 35                       |
| 680                     | 380LX681M250A022    | 0.293                 | 0.149  | 2.50                        | 3.50   | 35 x 30                       |
| 820                     | 380LX821M250K042    | 0.222                 | 0.089  | 2.80                        | 3.90   | 30 x 40                       |
| 820                     | 380LX821M250A022    | 0.222                 | 0.089  | 2.80                        | 3.90   | 35 x 30                       |
| 1000                    | 380LX102M250K452    | 0.182                 | 0.073  | 3.32                        | 4.65   | 30 x 45                       |
| 1000                    | 380LX102M250A032    | 0.182                 | 0.073  | 3.32                        | 4.65   | 35 x 35                       |
| 1200                    | 380LX122M250A042    | 0.166                 | 0.083  | 3.53                        | 4.94   | 35 x 40                       |
| 1500                    | 380LX152M250A052    | 0.133                 | 0.068  | 4.00                        | 5.70   | 35 x 50                       |
| 1500                    | 382LX152M250N042    | 0.133                 | 0.066  | 4.04                        | 5.66   | 40 x 40                       |
| 1800                    | 380LX182M250A062    | 0.110                 | 0.055  | 4.50                        | 6.30   | 35 x 63                       |
| 1800                    | 382LX182M250N052    | 0.110                 | 0.055  | 4.50                        | 6.30   | 40 x 50                       |
| 1800                    | 382L182M250N062     | 0.062                 | 0.030  | 4.80                        | 6.40   | 40 x 63                       |
| 2200                    | 380LX222M250A082    | 0.090                 | 0.045  | 4.90                        | 6.90   | 35 x 80                       |
| 2200                    | 382LX222M250N062    | 0.090                 | 0.045  | 4.90                        | 6.90   | 40 x 63                       |
| 2700                    | 382L272M250N082     | 0.043                 | 0.021  | 6.30                        | 8.40   | 40 x 80                       |
| 2700                    | 382LX272M250B052V   | 0.074                 | 0.037  | 6.77                        | 7.79   | 50 x 50                       |
| 3300                    | 382LX332M250N082    | 0.060                 | 0.030  | 7.00                        | 9.80   | 40 x 80                       |
| 3300                    | 382LX332M250B062V   | 0.060                 | 0.030  | 7.79                        | 10.91  | 50 x 63                       |
| 3900                    | 380LX392M250A102    | 0.051                 | 0.026  | 7.47                        | 10.46  | 35 x 105                      |
| 4700                    | 382LX472M250N102    | 0.042                 | 0.021  | 8.88                        | 12.43  | 40 x 105                      |
| 4700                    | 382LX472M250B082V   | 0.042                 | 0.021  | 9.65                        | 13.51  | 50 x 80                       |



# Types 380L, 382L, 380LX & 382LX, 85 °C High-Capacitance Snap-In

| Cap.<br>(µF)            | Catalog Part Number | Max. ESR<br>Ω @ 25 °C |        | Ripple Amps<br>Max. @ 85 °C |        | Nominal<br>Size D x L<br>(mm) |
|-------------------------|---------------------|-----------------------|--------|-----------------------------|--------|-------------------------------|
|                         |                     | 120 Hz                | 20 kHz | 120 Hz                      | 20 kHz |                               |
| 5600                    | 382LX562M250B092V   | 0.036                 | 0.018  | 10.80                       | 15.12  | 50 x 92                       |
| 6800                    | 382LX682M250B102V   | 0.029                 | 0.015  | 12.16                       | 17.02  | 50 x 105                      |
| 315 Vdc (365 Vdc Surge) |                     |                       |        |                             |        |                               |
| 100                     | 380LX101M315H012    | 1.989                 | 1.015  | .90                         | 1.30   | 22 x 25                       |
| 120                     | 380LX121M315H022    | 1.658                 | 0.856  | 1.00                        | 1.40   | 22 x 30                       |
| 120                     | 380LX121M315J012    | 1.658                 | 0.856  | 1.00                        | 1.40   | 25 x 25                       |
| 150                     | 380LX151M315H022    | 1.326                 | 0.677  | 1.10                        | 1.60   | 22 x 30                       |
| 150                     | 380LX151M315J012    | 1.326                 | 0.677  | 1.10                        | 1.60   | 25 x 25                       |
| 180                     | 380LX181M315H032    | 1.105                 | 0.546  | 1.20                        | 1.70   | 22 x 35                       |
| 180                     | 380LX181M315J022    | 1.105                 | 0.546  | 1.20                        | 1.70   | 25 x 30                       |
| 180                     | 380LX181M315K012    | 1.105                 | 0.546  | 1.20                        | 1.70   | 30 x 25                       |
| 220                     | 380LX221M315H042    | 0.904                 | 0.461  | 1.40                        | 2.00   | 22 x 40                       |
| 220                     | 380LX221M315J032    | 0.904                 | 0.461  | 1.40                        | 2.00   | 25 x 35                       |
| 220                     | 380LX221M315K012    | 0.904                 | 0.461  | 1.40                        | 2.00   | 30 x 25                       |
| 270                     | 380LX271M315H452    | 0.737                 | 0.376  | 1.60                        | 2.20   | 22 x 45                       |
| 270                     | 380LX271M315J042    | 0.737                 | 0.376  | 1.60                        | 2.20   | 25 x 40                       |
| 270                     | 380LX271M315K022    | 0.737                 | 0.376  | 1.60                        | 2.20   | 30 x 30                       |
| 330                     | 380LX331M315J452    | 0.603                 | 0.308  | 1.80                        | 2.50   | 25 x 45                       |
| 330                     | 380LX331M315K022    | 0.603                 | 0.308  | 1.80                        | 2.50   | 30 x 30                       |
| 330                     | 380LX331M315A012    | 0.603                 | 0.308  | 1.80                        | 2.50   | 35 x 25                       |
| 390                     | 380LX391M315J052    | 0.510                 | 0.260  | 2.00                        | 2.80   | 25 x 50                       |
| 390                     | 380LX391M315K032    | 0.510                 | 0.260  | 2.00                        | 2.80   | 30 x 35                       |
| 390                     | 380LX391M315A022    | 0.510                 | 0.260  | 2.00                        | 2.80   | 35 x 30                       |
| 470                     | 380LX471M315K042    | 0.423                 | 0.216  | 2.30                        | 3.20   | 30 x 40                       |
| 470                     | 380LX471M315A032    | 0.423                 | 0.216  | 2.30                        | 3.20   | 35 x 35                       |
| 560                     | 380LX561M315K452    | 0.355                 | 0.181  | 2.60                        | 3.60   | 30 x 45                       |
| 560                     | 380LX561M315A032    | 0.355                 | 0.181  | 2.60                        | 3.60   | 35 x 35                       |
| 680                     | 380LX681M315A452    | 0.293                 | 0.149  | 2.90                        | 4.00   | 35 x 45                       |
| 820                     | 380LX821M315A052    | 0.243                 | 0.124  | 3.30                        | 4.60   | 35 x 50                       |
| 1000                    | 380L102M315A062     | 0.218                 | 0.129  | 2.70                        | 3.60   | 35 x 63                       |
| 1200                    | 380L122M315A072     | 0.182                 | 0.107  | 3.20                        | 4.20   | 35 x 70                       |
| 1200                    | 382L122M315N052     | 0.202                 | 0.122  | 2.90                        | 3.90   | 40 x 50                       |
| 1500                    | 380L152M315A082     | 0.153                 | 0.090  | 3.60                        | 4.80   | 35 x 80                       |
| 1500                    | 382L152M315N062     | 0.162                 | 0.098  | 3.40                        | 4.50   | 40 x 63                       |
| 1800                    | 382L182M315N082     | 0.113                 | 0.069  | 4.50                        | 6.00   | 40 x 80                       |
| 350 Vdc (400 Vdc Surge) |                     |                       |        |                             |        |                               |
| 82                      | 380LX820M350H012    | 2.022                 | 0.708  | .83                         | 1.16   | 22 x 25                       |
| 100                     | 380LX101M350H022    | 1.660                 | 0.580  | .90                         | 1.30   | 22 x 30                       |
| 120                     | 380LX121M350H022    | 1.382                 | 0.484  | 1.00                        | 1.40   | 22 x 30                       |
| 120                     | 380LX121M350J012    | 1.382                 | 0.484  | 1.00                        | 1.40   | 25 x 25                       |
| 150                     | 380LX151M350H032    | 1.110                 | 0.390  | 1.10                        | 1.60   | 22 x 35                       |
| 150                     | 380LX151M350J012    | 1.110                 | 0.390  | 1.10                        | 1.60   | 25 x 25                       |
| 150                     | 380LX151M350K012    | 1.110                 | 0.390  | 1.10                        | 1.60   | 30 x 25                       |
| 180                     | 380LX181M350H042    | 0.920                 | 0.320  | 1.20                        | 1.70   | 22 x 40                       |
| 180                     | 380LX181M350J022    | 0.920                 | 0.320  | 1.22                        | 1.70   | 25 x 30                       |
| 180                     | 380LX181M350K012    | 0.920                 | 0.320  | 1.20                        | 1.70   | 30 x 25                       |
| 220                     | 380LX221M350H452    | 0.750                 | 0.260  | 1.44                        | 2.00   | 22 x 45                       |
| 220                     | 380LX221M350J032    | 0.750                 | 0.260  | 1.44                        | 2.00   | 25 x 35                       |
| 220                     | 380LX221M350K012    | 0.750                 | 0.260  | 1.44                        | 2.00   | 30 x 25                       |
| 220                     | 380LX221M350A012    | 0.750                 | 0.260  | 1.44                        | 2.00   | 35 x 25                       |
| 270                     | 380LX271M350J042    | 0.614                 | 0.215  | 1.66                        | 2.32   | 25 x 40                       |
| 270                     | 380LX271M350K022    | 0.614                 | 0.215  | 1.66                        | 2.32   | 30 x 30                       |
| 270                     | 380LX271M350A012    | 0.614                 | 0.215  | 1.66                        | 2.32   | 35 x 25                       |
| 270                     | 380LX271M350A012    | 0.614                 | 0.215  | 1.70                        | 2.30   | 35 x 25                       |
| 330                     | 380LX331M350J052    | 0.500                 | 0.180  | 1.90                        | 2.60   | 25 x 50                       |

| Cap.<br>(µF)            | Catalog Part Number | Max. ESR<br>Ω @ 25 °C |        | Ripple Amps<br>Max. @ 85 °C |        | Nominal<br>Size D x L<br>(mm) |
|-------------------------|---------------------|-----------------------|--------|-----------------------------|--------|-------------------------------|
|                         |                     | 120 Hz                | 20 kHz | 120 Hz                      | 20 kHz |                               |
| 330                     | 380LX331M350K032    | 0.500                 | 0.180  | 1.90                        | 2.60   | 30 x 35                       |
| 330                     | 380LX331M350A022    | 0.500                 | 0.180  | 1.90                        | 2.60   | 35 x 30                       |
| 390                     | 380LX391M350J052    | 0.425                 | 0.149  | 2.06                        | 2.88   | 25 x 50                       |
| 390                     | 380LX391M350K042    | 0.425                 | 0.149  | 2.06                        | 2.88   | 30 x 40                       |
| 390                     | 380LX391M350A022    | 0.425                 | 0.149  | 2.06                        | 2.88   | 35 x 30                       |
| 470                     | 380LX471M350K052    | 0.390                 | 0.140  | 2.40                        | 3.40   | 30 x 50                       |
| 470                     | 380LX471M350A032    | 0.390                 | 0.140  | 2.40                        | 3.40   | 35 x 35                       |
| 560                     | 380LX561M350K052    | 0.326                 | 0.114  | 2.60                        | 3.64   | 30 x 50                       |
| 560                     | 380LX561M350A042    | 0.326                 | 0.114  | 2.60                        | 3.64   | 35 x 40                       |
| 680                     | 380LX681M350A452    | 0.293                 | 0.117  | 2.96                        | 4.14   | 35 x 45                       |
| 680                     | 382LX681M350N042    | 0.293                 | 0.117  | 3.00                        | 4.10   | 40 x 40                       |
| 820                     | 380LX821M350A052    | 0.243                 | 0.097  | 3.55                        | 4.97   | 35 x 50                       |
| 1000                    | 380LX102M350A062    | 0.250                 | 0.110  | 3.80                        | 5.30   | 35 x 63                       |
| 1000                    | 382LX102M350N052    | 0.250                 | 0.110  | 3.80                        | 5.30   | 40 x 50                       |
| 1200                    | 380LX122M350A082    | 0.210                 | 0.095  | 4.40                        | 6.20   | 35 x 80                       |
| 1200                    | 382LX122M350N062    | 0.210                 | 0.095  | 4.40                        | 6.20   | 40 x 63                       |
| 1200                    | 382LX122M350B052V   | 0.207                 | 0.093  | 5.18                        | 5.96   | 50 x 50                       |
| 1500                    | 382LX152M350B062V   | 0.166                 | 0.075  | 6.01                        | 8.41   | 50 x 63                       |
| 1800                    | 380LX182M350A102    | 0.138                 | 0.062  | 5.79                        | 8.11   | 35 x 105                      |
| 1800                    | 382LX182M350N082    | 0.138                 | 0.062  | 5.85                        | 8.20   | 40 x 80                       |
| 1800                    | 382LX182M350B082V   | 0.138                 | 0.062  | 6.89                        | 9.65   | 50 x 80                       |
| 2200                    | 382LX222M350N102    | 0.113                 | 0.051  | 6.91                        | 9.67   | 40 x 105                      |
| 2200                    | 382LX222M350B092V   | 0.113                 | 0.051  | 7.79                        | 10.91  | 50 x 92                       |
| 2700                    | 382LX272M350B102V   | 0.092                 | 0.041  | 8.80                        | 12.32  | 50 x 105                      |
| 400 Vdc (450 Vdc Surge) |                     |                       |        |                             |        |                               |
| 47                      | 380LX470M400H202    | 3.530                 | 1.240  | .25                         | .35    | 22 x 20                       |
| 47                      | 380LX470M400H012    | 3.530                 | 1.240  | .47                         | .66    | 22 x 25                       |
| 68                      | 380LX680M400H012    | 2.440                 | 0.850  | .70                         | .97    | 22 x 25                       |
| 68                      | 380LX680M400J202    | 2.930                 | 1.000  | .35                         | .50    | 25 x 20                       |
| 82                      | 380LX820M400H012    | 2.000                 | 0.710  | .80                         | 1.20   | 22 x 25                       |
| 100                     | 380LX101M400H022    | 1.650                 | 0.580  | .90                         | 1.30   | 22 x 30                       |
| 100                     | 380LX101M400J012    | 1.650                 | 0.580  | .90                         | 1.30   | 25 x 25                       |
| 100                     | 380LX101M400K202    | 1.990                 | 0.700  | .50                         | .70    | 30 x 20                       |
| 120                     | 380LX121M400H032    | 1.380                 | 0.490  | 1.00                        | 1.40   | 22 x 35                       |
| 120                     | 380LX121M400J012    | 1.380                 | 0.490  | 1.02                        | 1.43   | 25 x 25                       |
| 150                     | 380LX151M400H042    | 1.100                 | 0.390  | 1.20                        | 1.60   | 22 x 40                       |
| 150                     | 380LX151M400J022    | 1.100                 | 0.390  | 1.20                        | 1.60   | 25 x 30                       |
| 150                     | 380LX151M400K012    | 1.100                 | 0.390  | 1.20                        | 1.60   | 30 x 25                       |
| 150                     | 380LX151M400A202    | 1.330                 | 0.470  | .60                         | .80    | 35 x 20                       |
| 180                     | 380LX181M400H452    | 0.920                 | 0.320  | 1.40                        | 2.00   | 22 x 45                       |
| 180                     | 380LX181M400J022    | 0.920                 | 0.320  | 1.40                        | 2.00   | 25 x 30                       |
| 220                     | 380LX221M400H052    | 0.750                 | 0.260  | 1.50                        | 2.10   | 22 x 50                       |
| 220                     | 380LX221M400J042    | 0.750                 | 0.260  | 1.50                        | 2.10   | 25 x 40                       |
| 220                     | 380LX221M400K022    | 0.750                 | 0.260  | 1.50                        | 2.10   | 30 x 30                       |
| 270                     | 380LX271M400J452    | 0.680                 | 0.240  | 1.70                        | 2.30   | 25 x 45                       |
| 270                     | 380LX271M400K032    | 0.680                 | 0.240  | 1.70                        | 2.30   | 30 x 35                       |
| 270                     | 380LX271M400A022    | 0.680                 | 0.240  | 1.70                        | 2.30   | 35 x 30                       |
| 330                     | 380LX331M400K042    | 0.550                 | 0.200  | 1.90                        | 2.70   | 30 x 40                       |
| 330                     | 380LX331M400A022    | 0.550                 | 0.200  | 1.90                        | 2.70   | 35 x 30                       |
| 390                     | 380LX391M400K452    | 0.470                 | 0.160  | 2.10                        | 3.00   | 30 x 45                       |
| 390                     | 380LX391M400A032    | 0.470                 | 0.160  | 2.10                        | 3.00   | 35 x 35                       |
| 470                     | 380LX471M400A042    | 0.388                 | 0.136  | 2.39                        | 3.35   | 35 x 40                       |
| 560                     | 380LX561M400A452    | 0.326                 | 0.114  | 2.69                        | 3.77   | 35 x 45                       |
| 560                     | 382LX561M400N042    | 0.326                 | 0.114  | 2.70                        | 3.80   | 40 x 40                       |
| 680                     | 380LX681M400A052    | 0.270                 | 0.095  | 3.00                        | 4.20   | 35 x 50                       |

# Types 380L, 382L, 380LX & 382LX, 85 °C High-Capacitance Snap-In

| Cap.<br>(µF)            | Catalog Part Number | Max. ESR<br>Ω @ 25 °C<br>120 Hz 20 kHz |       | Ripple Amps<br>Max. @ 85 °C<br>120 Hz 20 kHz |       | Nominal<br>Size D x L<br>(mm) |
|-------------------------|---------------------|----------------------------------------|-------|----------------------------------------------|-------|-------------------------------|
| 820                     | 380LX821M400A062    | 0.222                                  | 0.078 | 3.55                                         | 4.97  | 35 x 63                       |
| 820                     | 382LX821M400N052    | 0.222                                  | 0.078 | 3.40                                         | 4.70  | 40 x 50                       |
| 1000                    | 380L102M400A082     | 0.179                                  | 0.099 | 3.60                                         | 4.80  | 35 x 80                       |
| 1000                    | 382LX102M400N062    | 0.249                                  | 0.127 | 3.40                                         | 4.80  | 40 x 63                       |
| 1000                    | 382LX102M400B052V   | 0.199                                  | 0.080 | 4.76                                         | 5.47  | 50 x 50                       |
| 1200                    | 380LX122M400A082    | 0.152                                  | 0.053 | 4.52                                         | 6.33  | 35 x 80                       |
| 1200                    | 382LX122M400N062    | 0.152                                  | 0.053 | 4.52                                         | 6.33  | 40 x 63                       |
| 1200                    | 382LX122M400B062V   | 0.166                                  | 0.066 | 5.47                                         | 7.66  | 50 x 63                       |
| 1500                    | 380LX152M400A102    | 0.122                                  | 0.043 | 5.44                                         | 7.62  | 35 x 105                      |
| 1500                    | 382LX152M400N082    | 0.122                                  | 0.043 | 5.50                                         | 7.70  | 40 x 80                       |
| 1500                    | 382LX152M400B082V   | 0.133                                  | 0.053 | 6.47                                         | 9.06  | 50 x 80                       |
| 1800                    | 382LX182M400N102    | 0.101                                  | 0.035 | 6.53                                         | 9.14  | 40 x 105                      |
| 1800                    | 382LX182M400B092V   | 0.111                                  | 0.044 | 7.35                                         | 10.29 | 50 x 92                       |
| 2200                    | 382LX222M400B102V   | 0.090                                  | 0.036 | 8.43                                         | 11.80 | 50 x 105                      |
| 420 Vdc (470 Vdc Surge) |                     |                                        |       |                                              |       |                               |
| 82                      | 380LX820M420H022    | 2.430                                  | 0.850 | .80                                          | 1.15  | 22 x 30                       |
| 100                     | 380LX101M420H022    | 2.000                                  | 0.700 | 0.90                                         | 1.30  | 22 x 30                       |
| 100                     | 380LX101M420J012    | 2.000                                  | 0.700 | 0.90                                         | 1.30  | 25 x 25                       |
| 120                     | 380LX121M420H032    | 1.660                                  | 0.590 | 1.00                                         | 1.40  | 22 x 35                       |
| 120                     | 380LX121M420J022    | 1.660                                  | 0.590 | 1.00                                         | 1.40  | 25 x 30                       |
| 150                     | 380LX151M420H042    | 1.330                                  | 0.450 | 1.15                                         | 1.60  | 22 x 40                       |
| 150                     | 380LX151M420J022    | 1.330                                  | 0.450 | 1.15                                         | 1.60  | 25 x 30                       |
| 150                     | 380LX151M420K012    | 1.330                                  | 0.450 | 1.15                                         | 1.60  | 30 x 25                       |
| 180                     | 380LX181M420J012    | 1.100                                  | 0.390 | 1.45                                         | 2.00  | 22 x 45                       |
| 180                     | 380LX181M420J032    | 1.100                                  | 0.390 | 1.45                                         | 2.00  | 25 x 35                       |
| 180                     | 380LX181M420K022    | 1.100                                  | 0.390 | 1.45                                         | 2.00  | 30 x 30                       |
| 220                     | 380LX221M420J452    | 0.900                                  | 0.320 | 1.50                                         | 2.10  | 25 x 45                       |
| 220                     | 380LX221M420K022    | 0.900                                  | 0.320 | 1.50                                         | 2.10  | 30 x 30                       |
| 220                     | 380LX221M420A012    | 0.900                                  | 0.320 | 1.50                                         | 2.10  | 35 x 25                       |
| 270                     | 380LX271M420J052    | 0.740                                  | 0.260 | 1.70                                         | 2.30  | 25 x 50                       |
| 270                     | 380LX271M420K032    | 0.740                                  | 0.260 | 1.70                                         | 2.30  | 30 x 35                       |
| 270                     | 380LX271M420A022    | 0.740                                  | 0.260 | 1.70                                         | 1.93  | 35 x 30                       |
| 330                     | 380LX331M420K452    | 0.600                                  | 0.210 | 1.90                                         | 2.68  | 30 x 45                       |
| 330                     | 380LX331M420A032    | 0.600                                  | 0.210 | 1.90                                         | 2.68  | 35 x 35                       |
| 390                     | 380LX391M420K052    | 0.500                                  | 0.180 | 2.10                                         | 3.00  | 30 x 50                       |
| 390                     | 380LX391M420A042    | 0.500                                  | 0.180 | 2.10                                         | 3.00  | 35 x 40                       |
| 470                     | 380LX471M420A452    | 0.420                                  | 0.150 | 2.40                                         | 3.35  | 35 x 45                       |
| 560                     | 380LX561M450A052    | 0.355                                  | 0.125 | 2.70                                         | 3.80  | 35 x 50                       |
| 450 Vdc (500 Vdc Surge) |                     |                                        |       |                                              |       |                               |
| 33                      | 380LX330M450H202    | 6.029                                  | 2.400 | .20                                          | .30   | 22 x 20                       |
| 33                      | 380LX330M450H012    | 6.029                                  | 2.400 | 0.40                                         | 0.57  | 22 x 25                       |
| 47                      | 380LX470M450H012    | 4.230                                  | 1.690 | 0.59                                         | 0.83  | 25 x 20                       |
| 47                      | 380LX470M450J202    | 4.230                                  | 1.690 | 0.30                                         | 0.40  | 25 x 20                       |
| 56                      | 380LX560M450H012    | 3.000                                  | 1.190 | 0.70                                         | 1.00  | 22 x 25                       |
| 68                      | 380LX680M450H022    | 2.926                                  | 1.170 | 0.80                                         | 1.10  | 22 x 30                       |
| 68                      | 380LX680M450K202    | 2.926                                  | 1.170 | 0.40                                         | 0.50  | 30 x 20                       |
| 82                      | 380LX820M450H022    | 2.000                                  | 0.810 | 0.80                                         | 1.20  | 22 x 30                       |
| 82                      | 380LX820M450J012    | 2.000                                  | 0.810 | 0.80                                         | 1.20  | 25 x 25                       |
| 100                     | 380LX101M450H032    | 1.660                                  | 0.660 | 0.90                                         | 1.30  | 22 x 35                       |
| 100                     | 380LX101M450J022    | 1.660                                  | 0.660 | .90                                          | 1.30  | 25 x 30                       |
| 100                     | 380LX101M450K012    | 1.989                                  | 1.015 | 0.90                                         | 1.30  | 30 x 25                       |
| 100                     | 380LX101M450A202    | 1.989                                  | 1.015 | 0.50                                         | 0.70  | 35 x 20                       |
| 120                     | 380LX121M450H042    | 1.380                                  | 0.550 | 1.00                                         | 1.50  | 22 x 40                       |
| 120                     | 380LX121M450J022    | 1.380                                  | 0.550 | 1.00                                         | 1.50  | 25 x 30                       |
| 120                     | 380LX121M450K012    | 1.380                                  | 0.550 | 1.00                                         | 1.50  | 30 x 25                       |
| 500 Vdc (550 Vdc Surge) |                     |                                        |       |                                              |       |                               |
| 33                      | 380LX330M500H012    | 3.850                                  | 2.353 | .60                                          | .80   | 22 x 25                       |
| 47                      | 380LX470M500H012    | 3.500                                  | 1.410 | 0.63                                         | 0.88  | 22 x 25                       |
| 56                      | 380LX560M500H022    | 2.980                                  | 1.184 | 0.70                                         | 0.98  | 22 x 30                       |
| 68                      | 380LX680M500H032    | 2.438                                  | 0.975 | 0.78                                         | 1.09  | 22 x 35                       |
| 68                      | 380LX680M500J012    | 2.438                                  | 0.975 | 0.78                                         | 1.09  | 25 x 25                       |
| 82                      | 380LX820M500H042    | 2.022                                  | 0.809 | 0.88                                         | 1.23  | 22 x 40                       |
| 82                      | 380LX820M500J022    | 2.022                                  | 0.809 | 0.88                                         | 1.23  | 25 x 30                       |
| 82                      | 380LX820M500K012    | 1.960                                  | 1.186 | 0.90                                         | 1.20  | 30 x 25                       |
| 100                     | 380LX101M500H452    | 1.658                                  | 0.663 | 0.99                                         | 1.39  | 22 x 45                       |
| 100                     | 380LX101M500J032    | 1.658                                  | 0.663 | 0.99                                         | 1.39  | 25 x 35                       |
| 100                     | 380LX101M500J042    | 1.340                                  | 0.828 | 1.10                                         | 1.50  | 25 x 40                       |
| 100                     | 380LX101M500K022    | 1.440                                  | 0.871 | 1.10                                         | 1.50  | 30 x 30                       |
| 100                     | 380LX101M500A012    | 1.580                                  | 0.962 | 1.10                                         | 1.50  | 35 x 25                       |
| 120                     | 380LX121M500H052    | 1.382                                  | 0.553 | 1.13                                         | 1.58  | 22 x 50                       |
| 120                     | 380LX121M500J042    | 1.382                                  | 0.553 | 1.13                                         | 1.58  | 25 x 40                       |
| 120                     | 380LX121M500K022    | 1.382                                  | 0.553 | 1.13                                         | 1.58  | 30 x 30                       |
| 120                     | 380LX121M500K032    | 1.130                                  | 0.683 | 1.40                                         | 1.90  | 30 x 35                       |
| 120                     | 380LX121M500A022    | 1.160                                  | 0.707 | 1.40                                         | 1.90  | 35 x 30                       |
| 150                     | 380LX151M500J452    | 1.105                                  | 0.442 | 1.29                                         | 1.80  | 25 x 45                       |
| 150                     | 380LX151M500J052    | 0.945                                  | 0.585 | 1.40                                         | 1.90  | 25 x 50                       |
| 150                     | 380LX151M500K032    | 1.105                                  | 0.442 | 1.29                                         | 1.80  | 30 x 35                       |
| 150                     | 380LX151M500K042    | 0.926                                  | 0.562 | 1.60                                         | 2.20  | 30 x 40                       |
| 150                     | 380LX151M500A012    | 1.105                                  | 0.442 | 1.29                                         | 1.80  | 35 x 25                       |

# Types 380L, 382L, 380LX & 382LX, 85 °C High-Capacitance Snap-In

| Cap.<br>(µF) | Catalog Part Number | Max. ESR<br>Ω@ 25 °C |        | Ripple Amps<br>Max. @ 85 °C |        | Nominal<br>Size D x L<br>(mm) |
|--------------|---------------------|----------------------|--------|-----------------------------|--------|-------------------------------|
|              |                     | 120 Hz               | 20 kHz | 120 Hz                      | 20 kHz |                               |
| 180          | 380LX181M500J052    | 0.920                | 0.368  | 1.38                        | 1.93   | 25 x 50                       |
| 180          | 380LX181M500K042    | 0.92                 | 0.368  | 1.38                        | 1.93   | 30 x 40                       |
| 180          | 380LX181M500A022    | 0.921                | 0.388  | 1.38                        | 1.93   | 35 x 30                       |
| 180          | 380LX181M500A032    | 0.92                 | 0.555  | 1.60                        | 2.20   | 35 x 35                       |
| 220          | 380LX221M500K452    | 0.754                | 0.339  | 1.50                        | 2.10   | 30 x 45                       |
| 220          | 380LX221M500K052    | 0.654                | 0.397  | 2.00                        | 2.70   | 30 x 50                       |
| 220          | 380LX221M500A032    | 0.754                | 0.339  | 1.50                        | 2.10   | 35 x 35                       |
| 220          | 380LX221M500A042    | 0.749                | 0.456  | 1.90                        | 2.50   | 35 x 40                       |
| 270          | 380LX271M500A042    | 0.614                | 0.278  | 1.76                        | 2.46   | 35 x 40                       |
| 270          | 380LX271M500A052    | 0.529                | 0.322  | 2.30                        | 3.10   | 35 x 50                       |
| 270          | 382L271M500N042     | 0.549                | 0.342  | 2.40                        | 3.20   | 40 x 40                       |
| 330          | 380LX331M500A452    | 0.502                | 0.251  | 1.99                        | 2.79   | 35 x 45                       |
| 330          | 382LX331M500N042    | 0.502                | 0.276  | 2.16                        | 3.00   | 40 x 40                       |
| 390          | 380LX391M500A052    | 0.425                | 0.234  | 2.22                        | 3.11   | 35 x 50                       |
| 390          | 380LX391M500A062    | 0.423                | 0.257  | 2.70                        | 3.60   | 35 x 63                       |
| 390          | 382L391M500N052     | 0.388                | 0.242  | 2.90                        | 3.90   | 40 x 50                       |
| 470          | 380LX471M500A062    | 0.353                | 0.194  | 2.58                        | 3.61   | 35 x 63                       |
| 470          | 380LX471M500A072    | 0.353                | 0.215  | 3.20                        | 4.20   | 35 x 70                       |
| 470          | 382LX471M500N052    | 0.353                | 0.194  | 2.70                        | 3.78   | 40 x 50                       |
| 470          | 382L471M500N062     | 0.311                | 0.194  | 3.40                        | 4.50   | 40 x 63                       |
| 560          | 380LX561M500A082    | 0.295                | 0.179  | 3.60                        | 4.80   | 35 x 80                       |
| 560          | 382LX561M500N062    | 0.326                | 0.179  | 3.11                        | 4.35   | 40 x 63                       |
| 560          | 382LX561M500B052V   | 0.355                | 0.195  | 3.52                        | 4.05   | 50 x 50                       |
| 680          | 382L681M500N082     | 0.218                | 0.135  | 4.50                        | 6.00   | 40 x 80                       |
| 680          | 380LX681M500A0822   | 0.244                | 0.134  | 3.21                        | 4.49   | 35 x 80                       |
| 680          | 382LX681M500B062V   | 0.293                | 0.161  | 4.07                        | 5.70   | 50 x 63                       |
| 820          | 380LX821M500A102    | 0.202                | 0.111  | 3.97                        | 5.56   | 35 x 105                      |
| 820          | 382LX821M500N082    | 0.222                | 0.122  | 3.88                        | 5.43   | 40 x 80                       |
| 1000         | 382LX102M500B082V   | 0.199                | 0.109  | 5.05                        | 7.07   | 50 x 80                       |
| 1200         | 382LX122M500N102    | 0.152                | 0.084  | 5.90                        | 8.26   | 40 x 105                      |
| 1200         | 382LX122M500B092V   | 0.166                | 0.091  | 5.74                        | 8.04   | 50 x 92                       |
| 1500         | 382LX152M500B102V   | 0.144                | 0.079  | 6.65                        | 9.31   | 50 x 105                      |

| Cap.<br>(µF) | Catalog Part Number | Max. ESR<br>Ω@ 25 °C |        | Ripple Amps<br>Max. @ 85 °C |        | Nominal<br>Size D x L<br>(mm) |
|--------------|---------------------|----------------------|--------|-----------------------------|--------|-------------------------------|
|              |                     | 120 Hz               | 20 kHz | 120 Hz                      | 20 kHz |                               |
| 150          | 380LX151M500J452    | 1.105                | 0.442  | 1.29                        | 1.80   | 25 x 45                       |
| 150          | 380LX151M500A012    | 1.105                | 0.442  | 1.29                        | 1.80   | 35 x 25                       |
| 180          | 380LX181M500A032    | 0.912                | 0.555  | 1.60                        | 2.20   | 35 x 35                       |
| 180          | 380LX181M500J052    | 0.921                | 0.388  | 1.38                        | 1.93   | 25 x 50                       |
| 180          | 380LX181M500A022    | 0.921                | 0.388  | 1.38                        | 1.93   | 35 x 30                       |
| 220          | 380LX221M500K052    | 0.654                | 0.397  | 2.00                        | 2.70   | 30 x 50                       |
| 220          | 380LX221M500A042    | 0.749                | 0.456  | 1.90                        | 2.50   | 35 x 40                       |
| 220          | 380LX221M500K452    | 0.754                | 0.339  | 1.50                        | 2.10   | 30 x 45                       |
| 220          | 380LX221M500A032    | 0.754                | 0.339  | 1.50                        | 2.10   | 35 x 35                       |
| 270          | 380LX271M500A052    | 0.529                | 0.322  | 2.30                        | 3.10   | 35 x 50                       |
| 270          | 382L271M500N042     | 0.549                | 0.342  | 2.40                        | 3.20   | 40 x 40                       |
| 270          | 380LX271M500A042    | 0.614                | 0.278  | 1.76                        | 2.46   | 35 x 40                       |
| 330          | 380LX331M500A452    | 0.502                | 0.251  | 1.99                        | 2.79   | 35 x 45                       |
| 330          | 382LX331M500N042    | 0.502                | 0.276  | 2.16                        | 3.00   | 40 x 40                       |
| 390          | 382L391M500N052     | 0.388                | 0.242  | 2.90                        | 3.90   | 40 x 50                       |
| 390          | 380LX391M500A062    | 0.423                | 0.257  | 2.70                        | 3.60   | 35 x 63                       |
| 390          | 380LX391M500A052    | 0.425                | 0.234  | 2.22                        | 3.11   | 35 x 50                       |
| 470          | 382L471M500N062     | 0.311                | 0.194  | 3.40                        | 4.50   | 40 x 63                       |
| 470          | 380LX471M500A062    | 0.353                | 0.194  | 2.58                        | 3.61   | 35 x 63                       |
| 470          | 380LX471M500A072    | 0.353                | 0.215  | 3.20                        | 4.20   | 35 x 70                       |
| 470          | 382LX471M500N052    | 0.353                | 0.194  | 2.70                        | 3.78   | 40 x 50                       |
| 560          | 380LX561M500A082    | 0.295                | 0.179  | 3.60                        | 4.80   | 35 x 80                       |
| 560          | 382LX561M500N062    | 0.326                | 0.179  | 3.11                        | 4.35   | 40 x 63                       |
| 560          | 382LX561M500B052V   | 0.355                | 0.195  | 3.52                        | 4.05   | 50 x 50                       |
| 680          | 382L681M500N082     | 0.218                | 0.135  | 4.50                        | 6.00   | 40 x 80                       |
| 680          | 380LX681M500A082    | 0.244                | 0.134  | 3.21                        | 4.49   | 35 x 80                       |
| 680          | 382LX681M500B062V   | 0.293                | 0.161  | 4.07                        | 5.70   | 50 x 63                       |
| 820          | 380LX821M500A102    | 0.202                | 0.111  | 3.97                        | 5.56   | 35 x 105                      |
| 820          | 382LX821M500N082    | 0.222                | 0.122  | 3.88                        | 5.43   | 40 x 80                       |
| 1000         | 382LX102M500B082V   | 0.199                | 0.109  | 5.05                        | 7.07   | 50 x 80                       |
| 1200         | 382LX122M500N102    | 0.152                | 0.084  | 5.90                        | 8.26   | 40 x 105                      |
| 1200         | 382LX122M500B092V   | 0.166                | 0.091  | 5.74                        | 8.04   | 50 x 92                       |
| 1500         | 382LX152M500B102V   | 0.144                | 0.079  | 6.65                        | 9.31   | 50 x 105                      |