

# Type 380LX / 382LX 85 °C High Capacitance, Snap-In Aluminum

2, 4 and 5 pin styles available



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 49 case sizes
- 2, 4 and 5 leads available

## Specifications

|                                 |                                                                                                                                       |       |       |        |         |              |
|---------------------------------|---------------------------------------------------------------------------------------------------------------------------------------|-------|-------|--------|---------|--------------|
| Temperature Range               | -40 °C to +85 °C ≤ 250 Vdc<br>-25 °C to +85 °C ≥ 315 Vdc                                                                              |       |       |        |         |              |
| Rated Voltage Range             | 16 Vdc to 600 Vdc                                                                                                                     |       |       |        |         |              |
| Capacitance Range               | 33 µF to 270,000 µF                                                                                                                   |       |       |        |         |              |
| Capacitance Tolerance           | ± 20%                                                                                                                                 |       |       |        |         |              |
| Leakage Current                 | ≤ 3√CV µA at 5 min                                                                                                                    |       |       |        |         |              |
| Ripple Current Multipliers      | Ambient Temperature                                                                                                                   |       |       |        |         |              |
|                                 |                                                                                                                                       | 45 °C | 60 °C | 70 °C  | 85 °C   |              |
|                                 | 0 - 500 Vdc                                                                                                                           | 1.50  | 1.40  | 1.30   | 1.00    |              |
|                                 | 501 - 600 Vdc                                                                                                                         | 1.90  | 1.90  | 1.80   | 1.00    |              |
|                                 | Frequency                                                                                                                             |       |       |        |         |              |
|                                 |                                                                                                                                       | 50 Hz | 60 Hz | 120 Hz | 500 kHz | 1 kHz 10 kHz |
| Low Temperature Characteristics | 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    |
|                                 | 500 - 600 Vdc                                                                                                                         | 0.70  | 0.75  | 1.00   | 1.20    | 1.25 1.30    |
| Endurance Life Test             | Impedance ratio: $Z_{-20^{\circ}\text{C}}/Z_{+25^{\circ}\text{C}}$ @120Hz<br>≤ 8 (16–50 Vdc)<br>≤ 4 (63–100 Vdc)<br>≤ 3 (150–600 Vdc) |       |       |        |         |              |
| Shelf Life Test                 | 3,000 h @ full load at +85 °C<br>Δ Capacitance ±20%<br>ESR 200% of limit<br>DCL 100% of limit                                         |       |       |        |         |              |
| Vibration                       | 0 - 500 Vdc                                                                                                                           |       |       |        |         |              |
|                                 | 1,000 h @ 85 °C<br>Δ Capacitance ±20%<br>ESR 200% of limit<br>DCL 100% of limit                                                       |       |       |        |         |              |
|                                 | 501 - 600 Vdc                                                                                                                         |       |       |        |         |              |
|                                 | 500 h @ 85 °C<br>Δ Capacitance ±20%<br>ESR 200% of limit<br>DCL 100% of limit                                                         |       |       |        |         |              |
|                                 | 10 to 55 Hz, 0.06" and 10 g max, 2 h in each plane                                                                                    |       |       |        |         |              |
|                                 |                                                                                                                                       |       |       |        |         |              |

### Regulatory Information

# Type 380LX / 382LX 85 °C High Capacitance, Snap-In Aluminum

2, 4 and 5 pin styles available

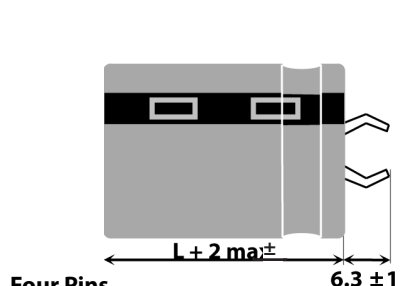
## Part Numbering System

| 382LX                   | 272                 | M             | 200           | N05       | 2                        | V                                       |
|-------------------------|---------------------|---------------|---------------|-----------|--------------------------|-----------------------------------------|
| Type                    | Cap                 | Tolerance     | Voltage       | Case Code | Insulation               | # of pins                               |
| 380L / LX (2 pins)      | 272 = 2700 $\mu$ F  | M = $\pm$ 20% | 200 = 200 Vdc |           | 2 = PVC                  | Blank = 2 pins / 4 pins snap-in 6.3mm L |
| 382L / LX (4 or 5 pins) | 333 = 33000 $\mu$ F |               |               |           | or PET (PET after 12/19) | A = 2 pins snap-in 4.0mm L              |
|                         |                     |               |               |           |                          | VS = 5 pins snap-in 6.3mm L             |
|                         |                     |               |               |           |                          | V = 5 pins standoff                     |

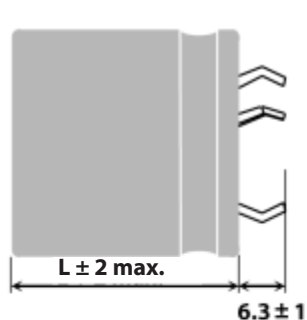
## Outline Drawings

Two Pins

380L/LX (22 through 40 mm diameter)

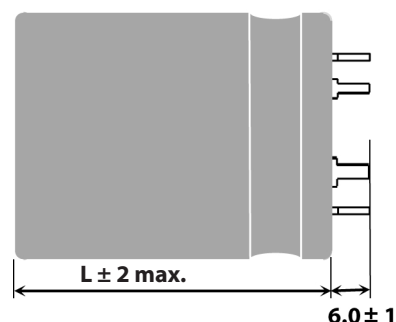


Four Pins  
382L/LX (35, 40 and 45mm diameter)



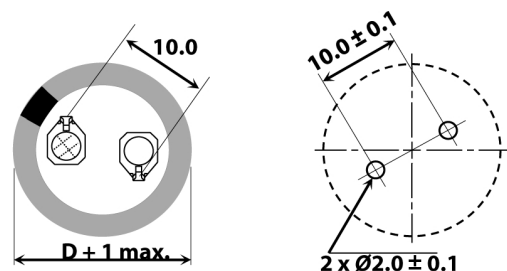
Five Pins

382L/LX (40 and 50mm diameter)



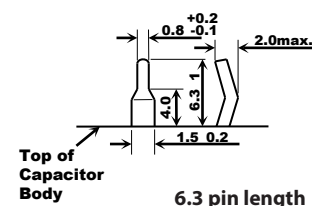
## Dimensions shown are in mm

Sleeving is PVC or PET (PET for all date codes after December 2019)



PC Board Mounting Holes

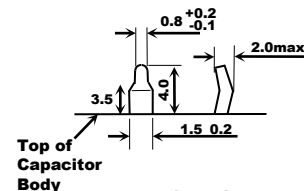
Available in 2, 4 and 5 pins



Top of Capacitor Body

6.3 pin length

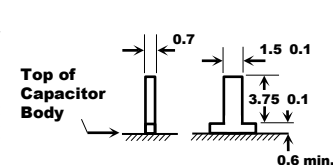
Available in 2 and 4 pins



Top of Capacitor Body

4.0 pin length  
option (add "A" to end of part#)

Available in 5 pins



Top of Capacitor Body

5 pin Standoff pin style (add "V" to end of part#)

PC Board Mounting Holes

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

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.

# Type 380LX / 382LX 85 °C High Capacitance, Snap-In Aluminum

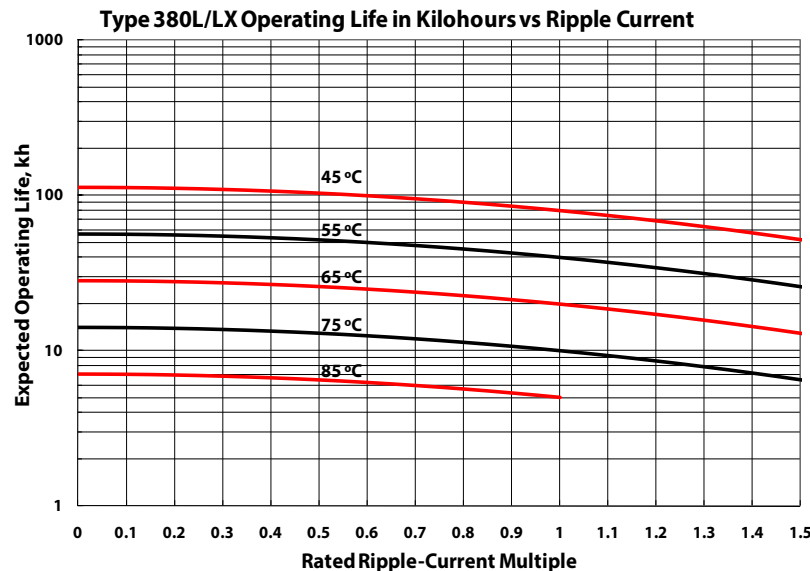
2, 4 and 5 pin styles available

## Insulated Case Dimensions

| Case Code | DIAMETER "D" |        | LENGTH "L" |        | Typical Weight<br>(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                        |
| 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                        |

| Case Code | DIAMETER "D" |        | LENGTH "L" |        | Typical Weight<br>(grams) |
|-----------|--------------|--------|------------|--------|---------------------------|
|           | mm           | inches | mm         | inches |                           |
| A04       | 35           | 1.38   | 40         | 1.57   | 62                        |
| A45       | 35           | 1.38   | 45         | 1.77   | 67                        |
| A05       | 35           | 1.38   | 50         | 1.97   | 74                        |
| A55       | 35           | 1.38   | 55         | 2.17   | 80                        |
| 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                       |

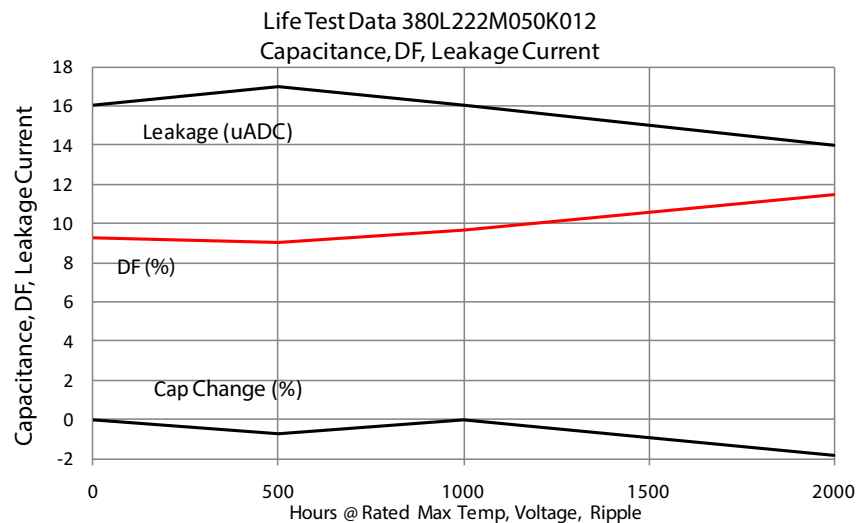
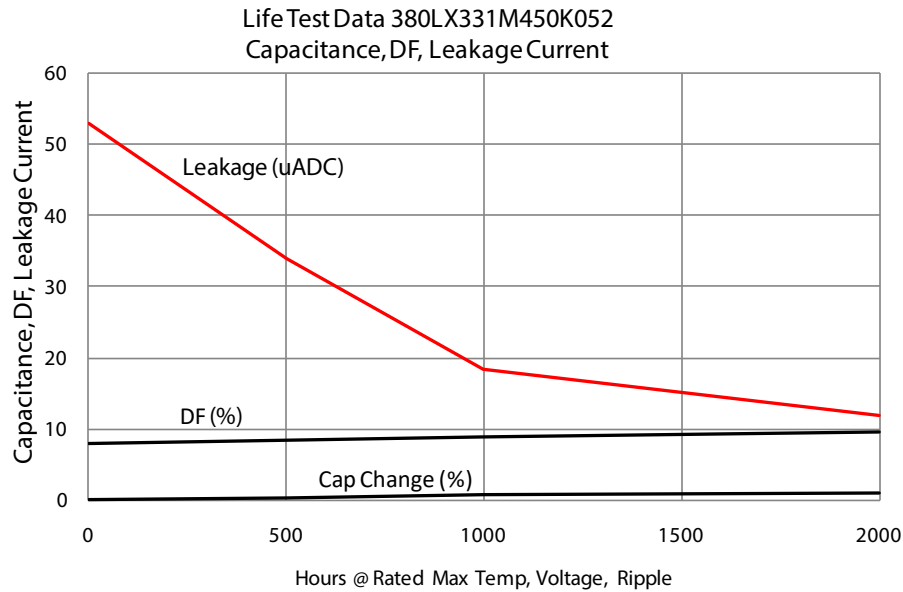
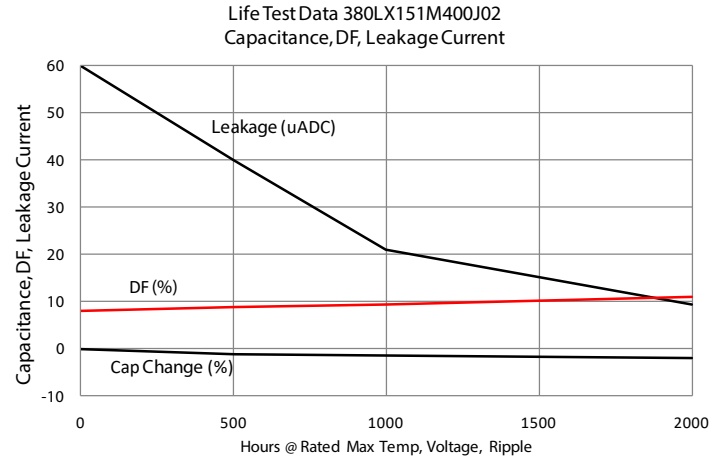
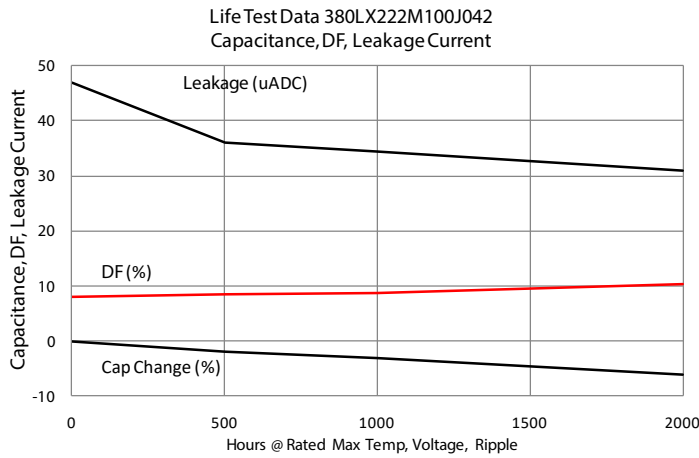
## Typical Performance Curves



# Type 380LX / 382LX 85 °C High Capacitance, Snap-In Aluminum

2, 4 and 5 pin styles available

## Typical Performance Curves



## 2, 4 and 5 pin styles available

| Cap.<br>(uF)          | Catalog<br>Part Number | Max. ESR |        | Ripple Amps |        | Nominal<br>Size<br>D x L<br>(mm) |
|-----------------------|------------------------|----------|--------|-------------|--------|----------------------------------|
|                       |                        | @ +25°C  |        | @ +85°C     |        |                                  |
|                       |                        | 120 Hz   | 20 kHz | 120 Hz      | 20 kHz |                                  |
|                       |                        | (ohms)   | (ohms) | (A)         | (A)    |                                  |
| 16 Vdc (20 Vdc Surge) |                        |          |        |             |        |                                  |
| 4700                  | 380LX472M016H012       | 0.160    | 0.135  | 1.77        | 2.00   | 22 x 25                          |
| 6800                  | 380LX682M016H012       | 0.075    | 0.063  | 2.60        | 2.99   | 22 x 25                          |
| 6800                  | 380LX682M016J202       | 0.110    | 0.092  | 1.80        | 2.10   | 25 x 20                          |
| 8200                  | 380LX822M016H012       | 0.090    | 0.078  | 3.10        | 3.60   | 22 x 25                          |
| 10000                 | 380LX103M016H012       | 0.075    | 0.062  | 2.90        | 3.30   | 22 x 25                          |
| 10000                 | 380LX103M016J012       | 0.143    | 0.118  | 3.80        | 4.30   | 25 x 25                          |
| 12000                 | 380LX123M016H022       | 0.062    | 0.059  | 3.13        | 3.60   | 22 x 30                          |
| 12000                 | 380LX123M016J012       | 0.062    | 0.052  | 4.50        | 5.20   | 25 x 25                          |
| 15000                 | 380LX153M016H032       | 0.055    | 0.047  | 3.69        | 4.24   | 22 x 35                          |
| 18000                 | 380LX183M016H032       | 0.046    | 0.039  | 3.98        | 4.58   | 22 x 35                          |
| 22000                 | 380LX223M016H042       | 0.038    | 0.032  | 4.52        | 5.20   | 22 x 40                          |
| 27000                 | 380LX273M016J452       | 0.031    | 0.025  | 6.30        | 7.30   | 25 x 45                          |
| 27000                 | 380LX273M016K022       | 0.028    | 0.023  | 4.70        | 5.41   | 30 x 30                          |
| 33000                 | 380LX333M016J052       | 0.025    | 0.021  | 6.80        | 7.80   | 25 x 50                          |
| 33000                 | 380LX333M016K032       | 0.025    | 0.021  | 6.84        | 7.87   | 30 x 35                          |
| 33000                 | 380LX333M016K042       | 0.025    | 0.021  | 6.80        | 7.90   | 30 x 40                          |
| 33000                 | 380LX333M016A022       | 0.025    | 0.021  | 6.80        | 7.90   | 35 x 30                          |
| 39000                 | 380LX393M016K042       | 0.024    | 0.020  | 6.94        | 7.98   | 30 x 40                          |
| 39000                 | 380LX393M016A032       | 0.022    | 0.018  | 6.95        | 8.00   | 35 x 35                          |
| 47000                 | 380LX473M016K452       | 0.023    | 0.019  | 7.47        | 8.59   | 30 x 45                          |
| 47000                 | 380LX473M016K052       | 0.020    | 0.017  | 7.50        | 8.60   | 30 x 50                          |
| 47000                 | 380LX473M016A042       | 0.022    | 0.020  | 7.50        | 8.60   | 35 x 40                          |
| 56000                 | 380LX563M016A452       | 0.020    | 0.019  | 8.73        | 10.04  | 35 x 45                          |
| 56000                 | 382LX563M016N042       | 0.022    | 0.021  | 9.00        | 10.40  | 40 x 40                          |
| 68000                 | 380LX683M016A452       | 0.021    | 0.018  | 9.05        | 10.41  | 35 x 45                          |
| 68000                 | 380LX683M016A052       | 0.018    | 0.017  | 9.00        | 10.40  | 35 x 50                          |
| 82000                 | 380LX823M016A052       | 0.020    | 0.018  | 9.49        | 10.91  | 35 x 50                          |
| 82000                 | 382LX823M016N052       | 0.016    | 0.015  | 10.30       | 11.80  | 40 x 50                          |
| 100000                | 380LX104M016A082       | 0.015    | 0.014  | 11.00       | 12.70  | 35 x 80                          |
| 100000                | 382LX104M016N062       | 0.018    | 0.017  | 11.40       | 13.00  | 40 x 63                          |
| 120000                | 380LX124M016A082       | 0.015    | 0.014  | 11.50       | 12.50  | 35 x 80                          |
| 120000                | 382LX124M016N082       | 0.017    | 0.016  | 12.40       | 14.30  | 40 x 80                          |
| 120000                | 382LX124M016B052V      | 0.014    | 0.013  | 13.17       | 15.15  | 50 x 50                          |
| 150000                | 382LX154M016B062V      | 0.012    | 0.011  | 14.40       | 16.56  | 50 x 63                          |
| 180000                | 382LX184M016N102       | 0.013    | 0.012  | 14.85       | 17.08  | 40 x 105                         |
| 180000                | 382LX184M016B082V      | 0.011    | 0.010  | 15.69       | 18.04  | 50 x 80                          |
| 220000                | 382LX224M016B092V      | 0.010    | 0.009  | 16.73       | 19.24  | 50 x 92                          |
| 270000                | 382LX274M016B102V      | 0.009    | 0.008  | 17.79       | 20.46  | 50 x 105                         |
| 25 Vdc (32 Vdc Surge) |                        |          |        |             |        |                                  |
| 3300                  | 380LX332M025H012       | 0.161    | 0.130  | 1.70        | 1.90   | 22 x 25                          |
| 4700                  | 380LX472M025H012       | 0.110    | 0.090  | 2.40        | 2.75   | 22 x 25                          |
| 5600                  | 380LX562M025H012       | 0.110    | 0.090  | 2.40        | 2.75   | 22 x 25                          |

| Cap.<br>(uF)          | Catalog<br>Part Number | Max. ESR |        | Ripple Amps |        | Nominal<br>Size<br>D x L<br>(mm) |
|-----------------------|------------------------|----------|--------|-------------|--------|----------------------------------|
|                       |                        | @ +25°C  |        | @ +85°C     |        |                                  |
|                       |                        | 120 Hz   | 20 kHz | 120 Hz      | 20 kHz |                                  |
|                       |                        | (ohms)   | (ohms) | (A)         | (A)    |                                  |
| 25 Vdc (32 Vdc Surge) |                        |          |        |             |        |                                  |
| 6800                  | 380LX682M025H022       | 0.078    | 0.063  | 2.63        | 3.01   | 22 x 30                          |
| 6800                  | 380LX682M025J012       | 0.078    | 0.063  | 3.50        | 4.00   | 25 x 25                          |
| 8200                  | 380LX822M025H022       | 0.081    | 0.065  | 2.86        | 3.29   | 22 x 30                          |
| 8200                  | 380LX822M025J012       | 0.065    | 0.049  | 3.60        | 4.10   | 25 x 25                          |
| 10000                 | 380LX103M025H032       | 0.058    | 0.046  | 3.80        | 4.30   | 22 x 35                          |
| 10000                 | 380LX103M025J022       | 0.058    | 0.046  | 3.80        | 4.30   | 25 x 30                          |
| 12000                 | 380LX123M025J022       | 0.055    | 0.044  | 4.10        | 4.72   | 25 x 30                          |
| 15000                 | 380LX153M025J032       | 0.044    | 0.035  | 4.63        | 5.32   | 25 x 35                          |
| 15000                 | 380LX153M025K022       | 0.040    | 0.030  | 4.60        | 5.30   | 30 x 30                          |
| 18000                 | 380LX183M025J042       | 0.037    | 0.029  | 5.47        | 6.29   | 25 x 40                          |
| 18000                 | 380LX183M025K032       | 0.035    | 0.028  | 5.50        | 6.30   | 30 x 35                          |
| 22000                 | 380LX223M025J452       | 0.030    | 0.024  | 6.10        | 7.00   | 25 x 45                          |
| 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                 | 380LX273M025K042       | 0.025    | 0.020  | 6.21        | 7.14   | 30 x 40                          |
| 27000                 | 380LX273M025K452       | 0.023    | 0.020  | 6.20        | 7.10   | 30 x 45                          |
| 27000                 | 380LX273M025A032       | 0.023    | 0.020  | 6.20        | 7.10   | 35 x 35                          |
| 33000                 | 380LX333M025K452       | 0.020    | 0.017  | 6.84        | 7.87   | 30 x 45                          |
| 33000                 | 380LX333M025K052       | 0.030    | 0.016  | 6.84        | 7.90   | 30 x 50                          |
| 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       | 0.019    | 0.015  | 8.00        | 9.20   | 35 x 50                          |
| 56000                 | 382LX563M025N052       | 0.016    | 0.015  | 9.00        | 10.30  | 40 x 50                          |
| 56000                 | 382L563M025N062        | 0.015    | 0.009  | 9.50        | 10.30  | 40 x 63                          |
| 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  | 9.50        | 12.00  | 35 x 105                         |
| 100000                | 382LX104M025N082       | 0.012    | 0.011  | 12.00       | 13.40  | 40 x 80                          |
| 100000                | 382LX104M025B062V      | 0.014    | 0.013  | 13.45       | 15.47  | 50 x 63                          |
| 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                         |
| 35 Vdc (44 Vdc Surge) |                        |          |        |             |        |                                  |
| 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                          |
| 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                          |
| 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                          |

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2, 4 and 5 pin styles available

| Cap.<br>(uF)          | Catalog<br>Part Number | Max. ESR |        | Ripple Amps |        | Nominal  |
|-----------------------|------------------------|----------|--------|-------------|--------|----------|
|                       |                        | @ +25°C  |        | @ +85°C     |        | Size     |
|                       |                        | 120 Hz   | 20 kHz | 120 Hz      | 20 kHz | D x L    |
|                       |                        | (ohms)   | (ohms) | (A)         | (A)    | (mm)     |
| 35 Vdc (44 Vdc Surge) |                        |          |        |             |        |          |
| 6800                  | 380LX682M035J022       | 0.073    | 0.055  | 2.60        | 2.99   | 25 x 30  |
| 8200                  | 380LX822M035J022       | 0.071    | 0.053  | 3.26        | 3.75   | 25 x 30  |
| 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                 | 380LX103M035J022       | 0.058    | 0.044  | 4.42        | 5.08   | 25 x 30  |
| 10000                 | 380LX103M035A012       | 0.050    | 0.037  | 4.40        | 5.10   | 35 x 25  |
| 12000                 | 380LX123M035J042       | 0.048    | 0.036  | 5.05        | 5.81   | 25 x 40  |
| 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       | 0.480    | 0.037  | 5.70        | 6.50   | 30 x 45  |
| 18000                 | 380LX183M035A032       | 0.480    | 0.037  | 5.70        | 6.50   | 35 x 35  |
| 22000                 | 380LX223M035K452       | 0.026    | 0.020  | 6.10        | 7.02   | 30 x 45  |
| 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                 | 380LX273M035A052       | 0.021    | 0.016  | 6.84        | 7.87   | 35 x 50  |
| 33000                 | 380LX333M035A052       | 0.018    | 0.014  | 7.15        | 8.22   | 35 x 50  |
| 39000                 | 380LX393M035A052       | 0.017    | 0.014  | 7.91        | 9.10   | 35 x 50  |
| 39000                 | 382LX393M035N052       | 0.017    | 0.014  | 8.00        | 9.20   | 40 x 50  |
| 47000                 | 380LX473M035A552       | 0.014    | 0.014  | 8.56        | 9.84   | 35 x 55  |
| 47000                 | 382LX473M035N062       | 0.016    | 0.013  | 9.60        | 11.00  | 40 x 63  |
| 56000                 | 382LX563M035N082       | 0.015    | 0.012  | 10.30       | 11.90  | 40 x 80  |
| 56000                 | 382LX563M035B052V      | 0.015    | 0.012  | 10.94       | 12.58  | 50 x 50  |
| 68000                 | 380LX683M035A102       | 0.010    | 0.008  | 9.50        | 11.00  | 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 |
| 50 Vdc (63 Vdc Surge) |                        |          |        |             |        |          |
| 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  |
| 2700                  | 380LX272M050H012       | 0.154    | 0.115  | 2.20        | 2.60   | 22 x 25  |
| 3300                  | 380LX332M050H012       | 0.151    | 0.113  | 2.41        | 2.77   | 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  |
| 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                  | 380LX472M050J012       | 0.080    | 0.060  | 2.10        | 2.40   | 25 x 25  |
| 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  |

\*denotes discontinued part

| Cap.<br>(uF)          | Catalog<br>Part Number | Max. ESR |        | Ripple Amps |        | Nominal  |
|-----------------------|------------------------|----------|--------|-------------|--------|----------|
|                       |                        | @ +25°C  |        | @ +85°C     |        | Size     |
|                       |                        | 120 Hz   | 20 kHz | 120 Hz      | 20 kHz | D x L    |
|                       |                        | (ohms)   | (ohms) | (A)         | (A)    | (mm)     |
| 50 Vdc (63 Vdc Surge) |                        |          |        |             |        |          |
| 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                  | 380LX682M050H452       | 0.073    | 0.055  | 3.85        | 4.43   | 22 x 45  |
| 8200                  | 380LX822M050J452       | 0.067    | 0.050  | 4.40        | 5.10   | 25 x 45  |
| 8200                  | 380LX822M050K032       | 0.067    | 0.050  | 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       | 0.041    | 0.031  | 5.58        | 6.42   | 35 x 35  |
| 15000                 | 380LX153M050A452       | 0.027    | 0.020  | 6.40        | 7.40   | 35 x 45  |
| 18000                 | 380LX183M050A452       | 0.028    | 0.021  | 6.94        | 7.98   | 35 x 45  |
| 18000                 | 382LX183M050N042       | 0.023    | 0.017  | 6.94        | 7.98   | 40 x 40  |
| 22000                 | 380L223M050A052        | 0.023    | 0.018  | 7.57        | 8.71   | 35 x 50  |
| 22000                 | 380LX223M050A052       | 0.025    | 0.020  | 7.60        | 8.71   | 35 x 50  |
| 27000                 | 380L273M050A052        | 0.018    | 0.015  | 8.96        | 10.03  | 35 x 50  |
| 27000                 | 382LX273M050N052       | 0.018    | 0.015  | 8.10        | 9.30   | 40 x 50  |
| 27000                 | 382L273M050N062        | 0.018    | 0.009  | 9.00        | 9.60   | 40 x 63  |
| 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                 | 380LX473M050A102       | 0.014    | 0.011  | 10.27       | 11.81  | 35 x 105 |
| 47000                 | 382LX473M050B062V      | 0.013    | 0.010  | 11.54       | 13.27  | 50 x 63  |
| 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                  | 380LX102M063H012       | 0.332    | 0.250  | 1.20        | 1.40   | 22 x 25  |
| 1500                  | 380LX152M063H012       | 0.221    | 0.167  | 1.70        | 2.00   | 22 x 25  |
| 2200                  | 380LX222M063J012       | 0.151    | 0.114  | 2.50        | 2.90   | 25 x 25  |
| 2700                  | 380LX272M063H042       | 0.126    | 0.094  | 2.72        | 3.13   | 22 x 40  |
| 3300                  | 380LX332M063J022       | 0.106    | 0.080  | 3.13        | 3.60   | 25 x 30  |
| 3900                  | 380LX392M063J022       | 0.106    | 0.080  | 3.13        | 3.60   | 25 x 30  |
| 4700                  | 380LX472M063J032       | 0.080    | 0.060  | 3.99        | 4.56   | 25 x 35  |
| 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                  | 380LX562M063K022       | 0.070    | 0.050  | 4.11        | 4.72   | 30 x 30  |
| 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  |
| 8200                  | 380LX822M063A032       | 0.050    | 0.040  | 6.00        | 6.90   | 35 x 35  |
| 10000                 | 380LX103M063A042       | 0.033    | 0.025  | 6.50        | 7.50   | 35 x 40  |

# Type 380LX / 382LX 85 °C High Capacitance, Snap-In Aluminum

2, 4 and 5 pin styles available

| Cap.<br>(uF)           | Catalog<br>Part Number | Max. ESR |        | Ripple Amps |        | Nominal  |
|------------------------|------------------------|----------|--------|-------------|--------|----------|
|                        |                        | @ +25°C  |        | @ +85°C     |        | Size     |
|                        |                        | 120 Hz   | 20 kHz | 120 Hz      | 20 kHz | D x L    |
|                        |                        | (ohms)   | (ohms) | (A)         | (A)    | (mm)     |
| 63 Vdc (79 Vdc Surge)  |                        |          |        |             |        |          |
| 10000                  | 382L103M063N042        | 0.028    | 0.017  | 6.60        | 7.20   | 40 x 40  |
| 12000                  | 380LX123M063K052       | 0.035    | 0.026  | 7.15        | 8.22   | 30 x 50  |
| 12000                  | 382LX123M063N042       | 0.035    | 0.028  | 7.15        | 8.22   | 40 x 40  |
| 15000                  | 380LX153M063A052       | 0.028    | 0.021  | 7.91        | 9.10   | 35 x 50  |
| 18000                  | 380LX183M063A082       | 0.023    | 0.012  | 9.40        | 10.80  | 35 x 80  |
| 18000                  | 382LX183M063N062       | 0.028    | 0.022  | 9.25        | 10.60  | 40 x 63  |
| 27000                  | 380LX273M063A102       | 0.015    | 0.012  | 10.38       | 11.94  | 35 x 105 |
| 27000                  | 382LX273M063N082       | 0.018    | 0.015  | 10.00       | 11.50  | 40 x 80  |
| 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                    | 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  |
| 1200                   | 380LX122M080H022       | 0.235    | 0.176  | 1.80        | 2.10   | 22 x 30  |
| 1500                   | 380LX152M080H022       | 0.177    | 0.134  | 2.30        | 2.60   | 22 x 30  |
| 1500                   | 380LX152M080K202       | 0.200    | 0.150  | 1.40        | 1.60   | 30 x 20  |
| 1800                   | 380LX182M080J032       | 0.147    | 0.109  | 2.50        | 2.90   | 25 x 35  |
| 2200                   | 380LX222M080H452       | 0.121    | 0.092  | 2.70        | 3.10   | 22 x 45  |
| 2200                   | 380LX222M080K012       | 0.121    | 0.092  | 2.70        | 3.10   | 30 x 25  |
| 2700                   | 380LX272M080J042       | 0.123    | 0.092  | 2.78        | 3.20   | 25 x 40  |
| 3300                   | 380LX332M080J042       | 0.100    | 0.075  | 3.21        | 3.69   | 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                   | 380LX392M080K042       | 0.085    | 0.064  | 3.59        | 4.13   | 30 x 40  |
| 4700                   | 380LX472M080J052       | 0.065    | 0.050  | 4.10        | 4.70   | 25 x 50  |
| 4700                   | 380LX472M080K042       | 0.071    | 0.053  | 4.09        | 4.70   | 30 x 40  |
| 5600                   | 380LX562M080K452       | 0.059    | 0.044  | 4.55        | 5.23   | 30 x 45  |
| 5600                   | 380LX562M080A032       | 0.055    | 0.040  | 4.60        | 5.20   | 35 x 35  |
| 6800                   | 380LX682M080K052       | 0.049    | 0.037  | 5.16        | 5.93   | 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                  | 380LX103M080A052       | 0.033    | 0.025  | 6.40        | 7.34   | 35 x 50  |
| 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  |

| Cap.<br>(uF)            | Catalog<br>Part Number | Max. ESR |        | Ripple Amps |        | Nominal  |
|-------------------------|------------------------|----------|--------|-------------|--------|----------|
|                         |                        | @ +25°C  |        | @ +85°C     |        | Size     |
|                         |                        | 120 Hz   | 20 kHz | 120 Hz      | 20 kHz | D x L    |
|                         |                        | (ohms)   | (ohms) | (A)         | (A)    | (mm)     |
| 80 Vdc (100 Vdc Surge)  |                        |          |        |             |        |          |
| 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 |
| 100 Vdc (125 Vdc Surge) |                        |          |        |             |        |          |
| 470                     | 380LX471M100H012       | 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       | 0.100    | 0.250  | 1.30        | 1.50   | 22 x 25  |
| 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  |
| 1200                    | 380LX122M100H032       | 0.195    | 0.125  | 1.80        | 2.70   | 22 x 35  |
| 1500                    | 380LX152M100H042       | 0.155    | 0.100  | 2.60        | 3.00   | 22 x 40  |
| 1800                    | 380LX182M100H042       | 0.140    | 0.090  | 2.80        | 3.30   | 22 x 40  |
| 2200                    | 380LX222M100J042       | 0.121    | 0.080  | 3.14        | 3.61   | 25 x 40  |
| 2700                    | 380LX272M100J452       | 0.104    | 0.068  | 3.70        | 4.30   | 25 x 45  |
| 2700                    | 380LX272M100A022       | 0.092    | 0.060  | 3.71        | 4.27   | 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  |
| 3300                    | 380LX332M100A022       | 0.100    | 0.065  | 4.07        | 4.68   | 35 x 30  |
| 3900                    | 380LX392M100K452       | 0.080    | 0.050  | 4.50        | 5.20   | 30 x 45  |
| 3900                    | 380LX392M100K052       | 0.085    | 0.055  | 4.54        | 5.22   | 30 x 50  |
| 4700                    | 380LX472M100K052       | 0.071    | 0.046  | 5.13        | 5.90   | 30 x 50  |
| 4700                    | 380LX472M100A042       | 0.070    | 0.050  | 5.10        | 5.90   | 35 x 40  |
| 5600                    | 380LX562M100A052       | 0.059    | 0.041  | 5.75        | 6.61   | 35 x 50  |
| 5600                    | 382LX562M100N042       | 0.060    | 0.045  | 5.80        | 6.60   | 40 x 40  |
| 6800                    | 380LX682M100A052       | 0.049    | 0.034  | 6.60        | 7.59   | 35 x 50  |
| 6800                    | 382L682M100N052        | 0.026    | 0.017  | 7.40        | 7.90   | 40 x 50  |
| 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                   | 380LX123M100A102       | 0.028    | 0.021  | 8.57        | 9.86   | 35 x 105 |
| 12000                   | 382LX123M100N082       | 0.028    | 0.021  | 8.65        | 10.00  | 40 x 80  |
| 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 |

# Type 380LX / 382LX 85 °C High Capacitance, Snap-In Aluminum

2, 4 and 5 pin styles available

| Cap.<br>(uF)            | Catalog<br>Part Number | Max. ESR |        | Ripple Amps |        | Nominal  |
|-------------------------|------------------------|----------|--------|-------------|--------|----------|
|                         |                        | @ +25°C  |        | @ +85°C     |        | Size     |
|                         |                        | 120 Hz   | 20 kHz | 120 Hz      | 20 kHz | D x L    |
|                         |                        | (ohms)   | (ohms) | (A)         | (A)    | (mm)     |
| 160 Vdc (200 Vdc Surge) |                        |          |        |             |        |          |
| 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  |
| 330                     | 380LX331M160H012       | 0.600    | 0.310  | 1.50        | 2.00   | 22 x 25  |
| 390                     | 380LX391M160H012       | 0.470    | 0.240  | 1.60        | 2.30   | 22 x 25  |
| 470                     | 380LX471M160H022       | 0.420    | 0.220  | 1.86        | 2.66   | 22 x 30  |
| 560                     | 380LX561M160H032       | 0.360    | 0.180  | 2.25        | 3.15   | 22 x 35  |
| 680                     | 380LX681M160H042       | 0.296    | 0.130  | 2.36        | 2.39   | 22 x 40  |
| 820                     | 380LX821M160J042       | 0.243    | 0.109  | 2.75        | 3.85   | 25 x 40  |
| 1000                    | 380LX102M160J042       | 0.220    | 0.110  | 3.00        | 4.20   | 25 x 40  |
| 1200                    | 380LX122M160K032       | 0.210    | 0.115  | 3.25        | 4.55   | 30 x 35  |
| 1800                    | 380LX182M160K052       | 0.140    | 0.085  | 4.20        | 5.90   | 30 x 50  |
| 2700                    | 380LX272M160A052       | 0.086    | 0.043  | 5.30        | 7.42   | 35 x 50  |
| 2700                    | 382LX272M160N042       | 0.080    | 0.045  | 5.50        | 7.60   | 40 x 40  |
| 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                    | 380LX682M160N102       | 0.038    | 0.021  | 8.90        | 12.46  | 40 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                   | 382LX153M160B102V      | 0.014    | 0.008  | 14.10       | 19.70  | 50 x 105 |
| 180 Vdc (225 Vdc Surge) |                        |          |        |             |        |          |
| 330                     | 380LX331M180H012       | 0.603    | 0.308  | 1.50        | 2.00   | 22 x 25  |
| 390                     | 380LX391M180H022       | 0.510    | 0.230  | 1.68        | 2.35   | 22 x 30  |
| 470                     | 380LX471M180H022       | 0.423    | 0.190  | 1.91        | 2.67   | 22 x 30  |
| 560                     | 380LX561M180H042       | 0.355    | 0.160  | 2.25        | 3.15   | 22 x 40  |
| 680                     | 380LX681M180J032       | 0.293    | 0.132  | 2.22        | 3.11   | 25 x 35  |
| 820                     | 380LX821M180K022       | 0.240    | 0.120  | 2.80        | 3.90   | 30 x 30  |
| 1000                    | 380LX102M180J052       | 0.220    | 0.100  | 3.00        | 4.20   | 25 x 50  |
| 1200                    | 380LX122M180J052       | 0.170    | 0.080  | 3.31        | 4.63   | 25 x 50  |
| 1500                    | 380LX152M180K052       | 0.130    | 0.070  | 3.80        | 5.40   | 30 x 50  |
| 1800                    | 380LX182M180K052       | 0.120    | 0.050  | 4.32        | 6.05   | 30 x 50  |
| 2200                    | 380LX222M180A052       | 0.090    | 0.050  | 4.90        | 6.90   | 35 x 50  |
| 2700                    | 382L272M180N062        | 0.051    | 0.027  | 5.00        | 6.50   | 40 x 63  |
| 4700                    | 382L472M180N082        | 0.036    | 0.020  | 6.60        | 8.50   | 40 x 80  |
| 200 Vdc (250 Vdc Surge) |                        |          |        |             |        |          |
| 150                     | 380LX151M200H012       | 1.330    | 0.600  | 0.65        | 0.90   | 22 x 25  |
| 220                     | 380LX221M200H012       | 0.900    | 0.420  | 1.00        | 1.45   | 22 x 25  |
| 270                     | 380LX271M200H012       | 0.730    | 0.300  | 1.40        | 2.00   | 22 x 25  |
| 330                     | 380LX331M200H022       | 0.600    | 0.270  | 1.60        | 2.20   | 22 x 30  |
| 330                     | 380LX331M200J012       | 0.470    | 0.210  | 1.70        | 2.40   | 25 x 25  |

| Cap.<br>(uF)            | Catalog<br>Part Number | Max. ESR |        | Ripple Amps |        | Nominal  |
|-------------------------|------------------------|----------|--------|-------------|--------|----------|
|                         |                        | @ +25°C  |        | @ +85°C     |        | Size     |
|                         |                        | 120 Hz   | 20 kHz | 120 Hz      | 20 kHz | D x L    |
|                         |                        | (ohms)   | (ohms) | (A)         | (A)    | (mm)     |
| 200 Vdc (250 Vdc Surge) |                        |          |        |             |        |          |
| 390                     | 380LX391M200H022       | 0.510    | 0.230  | 1.68        | 2.35   | 22 x 30  |
| 390                     | 380LX391M200J012       | 0.470    | 0.210  | 1.70        | 2.40   | 25 x 25  |
| 470                     | 380LX471M200J022       | 0.420    | 0.190  | 1.90        | 2.60   | 25 x 30  |
| 470                     | 380LX471M200A202       | 0.460    | 0.210  | 1.30        | 1.80   | 35 x 20  |
| 560                     | 380LX561M200H042       | 0.360    | 0.160  | 2.18        | 3.08   | 22 x 40  |
| 680                     | 380LX681M200H452       | 0.290    | 0.130  | 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                     | 380LX821M200H452       | 0.243    | 0.124  | 2.90        | 4.10   | 22 x 45  |
| 820                     | 380LX821M200J042       | 0.240    | 0.110  | 2.60        | 3.60   | 25 x 40  |
| 820                     | 380LX821M200K022       | 0.220    | 0.100  | 2.90        | 4.10   | 30 x 30  |
| 1000                    | 380LX102M200J452       | 0.199    | 0.090  | 3.25        | 4.55   | 25 x 45  |
| 1000                    | 380LX102M200K022       | 0.199    | 0.102  | 3.30        | 4.60   | 30 x 30  |
| 1000                    | 380LX102M200K032       | 0.216    | 0.097  | 3.20        | 4.50   | 30 x 35  |
| 1200                    | 380LX122M200J052       | 0.144    | 0.072  | 3.87        | 5.42   | 25 x 50  |
| 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  |
| 3300                    | 382LX332M200N062       | 0.065    | 0.037  | 6.30        | 8.90   | 40 x 63  |
| 3900                    | 380LX392M200A082       | 0.055    | 0.030  | 6.60        | 9.25   | 35 x 80  |
| 3900                    | 382LX392M200N062       | 0.055    | 0.030  | 6.80        | 9.50   | 40 x 63  |
| 3900                    | 382LX392M200B052V      | 0.055    | 0.030  | 8.22        | 9.45   | 50 x 50  |
| 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                    | 380LX562M200N102       | 0.040    | 0.020  | 8.90        | 12.46  | 40 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                     | 380LX121M250H012       | 1.660    | 0.850  | 0.50        | 0.60   | 22 x 25  |
| 150                     | 380LX151M250H012       | 1.330    | 0.460  | 1.00        | 1.25   | 22 x 25  |
| 180                     | 380LX181M250H012       | 1.110    | 0.550  | 1.10        | 1.50   | 22 x 25  |
| 220                     | 380LX221M250H012       | 0.900    | 0.450  | 1.30        | 1.70   | 22 x 25  |

# Type 380LX / 382LX 85 °C High Capacitance, Snap-In Aluminum

2, 4 and 5 pin styles available

| Cap.<br>(uF)            | Catalog<br>Part Number | Max. ESR |        | Ripple Amps |        | Nominal  |
|-------------------------|------------------------|----------|--------|-------------|--------|----------|
|                         |                        | @ +25°C  |        | @ +85°C     |        | Size     |
|                         |                        | 120 Hz   | 20 kHz | 120 Hz      | 20 kHz | D x L    |
|                         |                        | (ohms)   | (ohms) | (A)         | (A)    | (mm)     |
| 250 Vdc (300 Vdc Surge) |                        |          |        |             |        |          |
| 270                     | 380LX271M250H022       | 0.620    | 0.250  | 1.30        | 1.80   | 22 x 30  |
| 330                     | 380LX331M250H042       | 0.600    | 0.300  | 1.66        | 2.32   | 22 x 40  |
| 330                     | 380LX331M250J022       | 0.550    | 0.220  | 1.80        | 2.50   | 25 x 30  |
| 390                     | 380LX391M250J032       | 0.510    | 0.260  | 1.91        | 2.67   | 25 x 35  |
| 470                     | 380LX471M250J032       | 0.420    | 0.190  | 2.11        | 2.95   | 25 x 35  |
| 470                     | 380LX471M250J042       | 0.039    | 1.550  | 2.10        | 3.00   | 25 x 40  |
| 560                     | 380LX561M250J032       | 0.360    | 0.160  | 2.25        | 3.15   | 25 x 35  |
| 560                     | 380LX561M250K022       | 0.326    | 0.130  | 2.30        | 3.20   | 30 x 30  |
| 680                     | 380LX681M250J452       | 0.270    | 0.110  | 2.50        | 3.50   | 25 x 45  |
| 680                     | 380LX681M250K032       | 0.268    | 0.107  | 2.50        | 3.50   | 30 x 35  |
| 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                    | 380LX222M250A062       | 0.090    | 0.045  | 4.70        | 6.60   | 35 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                    | 380LX272M250A082       | 0.074    | 0.037  | 5.60        | 7.90   | 35 x 80  |
| 2700                    | 382LX272M250N062       | 0.074    | 0.037  | 5.80        | 8.10   | 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                    | 382LX392M250N082       | 0.051    | 0.026  | 7.35        | 10.30  | 40 x 80  |
| 3900                    | 380LX392M250N102       | 0.060    | 0.040  | 7.47        | 10.46  | 40 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  |
| 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       | 1.930    | 1.020  | 0.90        | 1.30   | 22 x 25  |
| 120                     | 380LX121M315H012       | 1.660    | 0.860  | 1.00        | 1.40   | 22 x 25  |
| 150                     | 380LX151M315H022       | 1.330    | 0.600  | 1.10        | 1.60   | 22 x 30  |
| 180                     | 380LX181M315H022       | 1.110    | 0.550  | 1.21        | 1.69   | 22 x 30  |
| 220                     | 380LX221M315H032       | 0.900    | 0.450  | 1.41        | 1.97   | 22 x 35  |
| 270                     | 380LX271M315J032       | 0.740    | 0.370  | 1.60        | 2.24   | 25 x 35  |

| Cap.<br>(uF)            | Catalog<br>Part Number | Max. ESR |        | Ripple Amps |        | Nominal |
|-------------------------|------------------------|----------|--------|-------------|--------|---------|
|                         |                        | @ +25°C  |        | @ +85°C     |        | Size    |
|                         |                        | 120 Hz   | 20 kHz | 120 Hz      | 20 kHz | D x L   |
|                         |                        | (ohms)   | (ohms) | (A)         | (A)    | (mm)    |
| 315 Vdc (365 Vdc Surge) |                        |          |        |             |        |         |
| 270                     | 380LX271M315K022       | 0.737    | 0.376  | 1.60        | 2.20   | 30 x 30 |
| 330                     | 380LX331M315J042       | 0.600    | 0.300  | 1.82        | 2.55   | 25 x 40 |
| 330                     | 380LX331M315K022       | 0.603    | 0.308  | 1.80        | 2.50   | 30 x 30 |
| 390                     | 380LX391M315J042       | 0.510    | 0.260  | 2.01        | 2.81   | 25 x 40 |
| 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       | 2.430    | 1.240  | 0.83        | 1.16   | 22 x 25 |
| 100                     | 380LX101M350H022       | 1.990    | 1.020  | 0.70        | 1.10   | 22 x 30 |
| 120                     | 380LX121M350H022       | 1.660    | 0.750  | 1.00        | 1.40   | 22 x 30 |
| 150                     | 380LX151M350H022       | 1.330    | 0.600  | 1.10        | 1.60   | 22 x 30 |
| 180                     | 380LX181M350H022       | 1.110    | 0.500  | 1.20        | 1.70   | 22 x 30 |
| 220                     | 380LX221M350H042       | 0.900    | 0.410  | 1.44        | 2.00   | 22 x 40 |
| 270                     | 380LX271M350H452       | 0.740    | 0.380  | 1.66        | 2.32   | 22 x 45 |
| 270                     | 380LX271M350K022       | 0.614    | 0.215  | 1.66        | 2.32   | 30 x 30 |
| 330                     | 380LX331M350J042       | 0.600    | 0.300  | 1.88        | 2.63   | 25 x 40 |
| 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                     | 380LX391M350J452       | 0.510    | 0.230  | 1.80        | 2.50   | 25 x 45 |
| 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 |

# Type 380LX / 382LX 85 °C High Capacitance, Snap-In Aluminum

2, 4 and 5 pin styles available

| Cap.<br>(uF)            | Catalog<br>Part Number | Max. ESR |        | Ripple Amps |        | Nominal  |
|-------------------------|------------------------|----------|--------|-------------|--------|----------|
|                         |                        | @ +25°C  |        | @ +85°C     |        | Size     |
|                         |                        | 120 Hz   | 20 kHz | 120 Hz      | 20 kHz | D x L    |
|                         |                        | (ohms)   | (ohms) | (A)         | (A)    | (mm)     |
| 350 Vdc (400 Vdc Surge) |                        |          |        |             |        |          |
| 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       | 0.140    | 0.060  | 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                      | 380LX470M400H012       | 4.500    | 1.600  | 0.30        | 0.42   | 22 x 25  |
| 68                      | 380LX680M400H012       | 2.930    | 1.000  | 0.35        | 0.50   | 22 x 25  |
| 82                      | 380LX820M400H012       | 2.440    | 0.850  | 0.70        | 0.95   | 22 x 25  |
| 100                     | 380LX101M400H012       | 1.990    | 0.900  | 0.90        | 1.30   | 22 x 25  |
| 100                     | 380LX101M400H022       | 1.650    | 0.580  | 0.90        | 1.30   | 22 x 30  |
| 100                     | 380LX101M400J012       | 1.650    | 0.580  | 0.90        | 1.30   | 25 x 25  |
| 120                     | 380LX121M400H022       | 1.660    | 0.750  | 1.00        | 1.40   | 22 x 30  |
| 150                     | 380LX151M400H032       | 1.330    | 0.460  | 1.20        | 1.60   | 22 x 35  |
| 150                     | 380LX151M400J022       | 1.100    | 0.390  | 1.20        | 1.60   | 25 x 30  |
| 180                     | 380LX181M400J032       | 1.100    | 0.500  | 1.30        | 1.85   | 25 x 35  |
| 220                     | 380LX221M400J022       | 0.900    | 0.450  | 1.49        | 2.09   | 25 x 30  |
| 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                     | 380LX271M400K022       | 0.740    | 0.370  | 1.67        | 2.34   | 30 x 30  |
| 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  |
| 330                     | 380LX331M400A032       | 0.502    | 0.201  | 1.40        | 1.90   | 35 x 35  |
| 390                     | 380LX391M400J452       | 0.470    | 0.160  | 2.10        | 3.00   | 25 x 45  |
| 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  |
| 680                     | 382LX681M400N052       | 0.270    | 0.095  | 3.40        | 4.70   | 40 x 50  |
| 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       | 0.199    | 0.127  | 4.20        | 5.80   | 40 x 63  |

| Cap.<br>(uF)            | Catalog<br>Part Number | Max. ESR |        | Ripple Amps |        | Nominal  |
|-------------------------|------------------------|----------|--------|-------------|--------|----------|
|                         |                        | @ +25°C  |        | @ +85°C     |        | Size     |
|                         |                        | 120 Hz   | 20 kHz | 120 Hz      | 20 kHz | D x L    |
|                         |                        | (ohms)   | (ohms) | (A)         | (A)    | (mm)     |
| 400 Vdc (450 Vdc Surge) |                        |          |        |             |        |          |
| 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       | 0.120    | 0.040  | 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                      | 380LX820M420H012       | 2.430    | 0.850  | 0.80        | 1.15   | 22 x 25  |
| 100                     | 380LX101M420H022       | 1.820    | 0.820  | 0.90        | 1.30   | 22 x 30  |
| 120                     | 380LX121M420H022       | 1.660    | 0.750  | 0.90        | 1.30   | 22 x 30  |
| 150                     | 380LX151M420H042       | 1.330    | 0.600  | 1.15        | 1.60   | 22 x 40  |
| 180                     | 380LX181M420H042       | 1.110    | 0.500  | 1.45        | 2.00   | 22 x 40  |
| 180                     | 380LX181M420K022       | 1.100    | 0.390  | 1.45        | 2.00   | 30 x 30  |
| 220                     | 380LX221M420H452       | 0.900    | 0.410  | 1.50        | 2.10   | 22 x 45  |
| 220                     | 380LX221M420K022       | 0.900    | 0.320  | 1.50        | 2.10   | 30 x 30  |
| 270                     | 380LX271M420J452       | 0.740    | 0.330  | 1.70        | 2.30   | 25 x 45  |
| 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                     | 380LX561M420A052       | 0.355    | 0.125  | 2.70        | 3.80   | 35 x 50  |
| 450 Vdc (500 Vdc Surge) |                        |          |        |             |        |          |
| 33                      | 380LX330M450H012       | 6.030    | 2.400  | 0.40        | 0.57   | 22 x 25  |
| 47                      | 380LX470M450H202       | 4.230    | 1.690  | 0.30        | 0.40   | 22 x 20  |
| 56                      | 380LX560M450H012       | 3.550    | 1.600  | 0.70        | 1.00   | 22 x 25  |
| 68                      | 380LX680M450H012       | 2.930    | 1.020  | 0.80        | 1.10   | 22 x 25  |
| 82                      | 380LX820M450H012       | 2.000    | 0.810  | 0.80        | 1.20   | 22 x 25  |
| 82                      | 380LX820M450H022       | 2.430    | 1.210  | 0.83        | 1.16   | 22 x 30  |
| 100                     | 380LX101M450H022       | 1.990    | 0.790  | 0.90        | 1.30   | 22 x 30  |
| 120                     | 380LX121M450H022       | 1.659    | 0.661  | 1.00        | 1.50   | 22 x 30  |
| 120                     | 380LX121M450H032       | 1.660    | 0.750  | 0.90        | 1.35   | 22 x 35  |
| 120                     | 380LX121M450J012       | 1.380    | 0.550  | 1.00        | 1.50   | 25 x 25  |
| 150                     | 380LX151M450H032       | 1.330    | 0.590  | 1.18        | 1.66   | 22 x 35  |
| 150                     | 380LX151M450K022       | 1.100    | 0.440  | 1.20        | 1.70   | 30 x 30  |
| 180                     | 380LX181M450J032       | 1.110    | 0.380  | 1.20        | 1.75   | 25 x 35  |

# Type 380LX / 382LX 85 °C High Capacitance, Snap-In Aluminum

2, 4 and 5 pin styles available

| Cap.<br>(uF)            | Catalog<br>Part Number | Max. ESR |        | Ripple Amps |        | Nominal  |
|-------------------------|------------------------|----------|--------|-------------|--------|----------|
|                         |                        | @ +25°C  |        | @ +85°C     |        | Size     |
|                         |                        | 120 Hz   | 20 kHz | 120 Hz      | 20 kHz | D x L    |
|                         |                        | (ohms)   | (ohms) | (A)         | (A)    | (mm)     |
| 450 Vdc (500 Vdc Surge) |                        |          |        |             |        |          |
| 180                     | 380LX181M450K012       | 0.921    | 0.368  | 1.40        | 1.90   | 30 x 25  |
| 180                     | 380LX181M450K022       | 0.921    | 0.368  | 1.35        | 1.89   | 30 x 30  |
| 220                     | 380LX221M450H452       | 0.754    | 0.301  | 1.40        | 2.00   | 22 x 45  |
| 220                     | 380LX221M450J452       | 0.750    | 0.300  | 1.40        | 2.00   | 25 x 45  |
| 220                     | 380LX221M450J052       | 0.754    | 0.301  | 1.55        | 2.17   | 25 x 50  |
| 220                     | 380LX221M450K032       | 0.754    | 0.301  | 1.55        | 2.17   | 30 x 35  |
| 220                     | 380LX221M450A022       | 0.904    | 0.461  | 1.60        | 2.20   | 35 x 30  |
| 270                     | 380LX271M450K452       | 0.680    | 0.270  | 1.80        | 2.50   | 30 x 45  |
| 270                     | 380LX271M450A022       | 0.680    | 0.270  | 1.80        | 2.50   | 35 x 30  |
| 330                     | 380LX331M450K052       | 0.550    | 0.250  | 2.00        | 2.80   | 30 x 50  |
| 330                     | 380LX331M450A032       | 0.553    | 0.221  | 2.01        | 2.81   | 35 x 35  |
| 390                     | 380LX391M450A452       | 0.510    | 0.260  | 2.20        | 3.10   | 35 x 45  |
| 470                     | 380LX471M450A452       | 0.423    | 0.233  | 2.53        | 3.54   | 35 x 45  |
| 470                     | 382LX471M450N042       | 0.423    | 0.233  | 2.53        | 3.54   | 40 x 40  |
| 560                     | 380LX561M450A052       | 0.355    | 0.171  | 2.50        | 3.50   | 35 x 50  |
| 560                     | 380LX561M450A062       | 0.355    | 0.195  | 2.90        | 4.10   | 35 x 63  |
| 680                     | 380L681M450A072        | 0.226    | 0.120  | 3.20        | 4.20   | 35 x 70  |
| 680                     | 382LX681M450N052       | 0.290    | 0.160  | 3.15        | 4.40   | 40 x 50  |
| 680                     | 382L681M450N062        | 0.201    | 0.109  | 3.40        | 4.50   | 40 x 63  |
| 820                     | 380LX821M450A082       | 0.243    | 0.133  | 3.80        | 5.30   | 35 x 80  |
| 820                     | 382LX821M450N062       | 0.243    | 0.133  | 3.70        | 5.20   | 40 x 63  |
| 820                     | 382LX821M450B052V      | 0.263    | 0.145  | 4.31        | 4.96   | 50 x 50  |
| 1000                    | 382LX102M450N082       | 0.216    | 0.119  | 4.20        | 5.90   | 40 x 80  |
| 1000                    | 382LX102M450B062V      | 0.216    | 0.119  | 4.96        | 6.94   | 50 x 63  |
| 1200                    | 380LX122M450A102       | 0.170    | 0.090  | 4.80        | 6.72   | 35 x 105 |
| 1200                    | 382LX122M450N082       | 0.166    | 0.091  | 4.85        | 6.80   | 40 x 80  |
| 1200                    | 382LX122M450B082V      | 0.180    | 0.099  | 5.71        | 7.99   | 50 x 80  |
| 1500                    | 382LX152M450N102       | 0.133    | 0.073  | 5.81        | 8.13   | 40 x 105 |
| 1500                    | 382LX152M450B092V      | 0.144    | 0.079  | 6.55        | 9.17   | 50 x 92  |
| 1800                    | 382LX182M450B102V      | 0.120    | 0.066  | 7.38        | 10.30  | 50 x 105 |
| 500 Vdc (550 Vdc Surge) |                        |          |        |             |        |          |
| 33                      | *380LX330M500H012      | 4.420    | 2.652  | 0.60        | 0.80   | 22 x 25  |
| 47                      | *380LX470M500H012      | 3.500    | 2.100  | 0.63        | 0.88   | 22 x 25  |
| 56                      | *380LX560M500H022      | 2.980    | 1.788  | 0.70        | 0.98   | 22 x 30  |
| 68                      | *380LX680M500H032      | 2.720    | 1.632  | 0.78        | 1.09   | 22 x 35  |
| 68                      | 380LX680M500J012       | 2.720    | 1.632  | 0.78        | 1.09   | 25 x 25  |
| 82                      | *380LX820M500H042      | 2.455    | 1.473  | 0.88        | 1.23   | 22 x 40  |
| 82                      | 380LX820M500J022       | 2.455    | 1.473  | 0.88        | 1.23   | 25 x 30  |
| 82                      | 380LX820M500K012       | 2.455    | 1.473  | 0.90        | 1.20   | 30 x 25  |
| 100                     | *380LX101M500H452      | 2.013    | 1.208  | 0.99        | 1.39   | 22 x 45  |
| 100                     | 380LX101M500J032       | 2.013    | 1.208  | 0.99        | 1.39   | 25 x 35  |
| 100                     | 380LX101M500J042       | 2.013    | 1.208  | 1.10        | 1.50   | 25 x 40  |

\*denotes discontinued part

| Cap.<br>(uF)            | Catalog<br>Part Number | Max. ESR |        | Ripple Amps |        | Nominal  |
|-------------------------|------------------------|----------|--------|-------------|--------|----------|
|                         |                        | @ +25°C  |        | @ +85°C     |        | Size     |
|                         |                        | 120 Hz   | 20 kHz | 120 Hz      | 20 kHz | D x L    |
|                         |                        | (ohms)   | (ohms) | (A)         | (A)    | (mm)     |
| 500 Vdc (550 Vdc Surge) |                        |          |        |             |        |          |
| 100                     | 380LX101M500K022       | 2.013    | 1.208  | 1.10        | 1.50   | 30 x 30  |
| 100                     | 380LX101M500A012       | 2.013    | 1.208  | 1.10        | 1.50   | 35 x 25  |
| 120                     | *380LX121M500H052      | 1.678    | 1.007  | 1.13        | 1.58   | 22 x 50  |
| 120                     | 380LX121M500J042       | 1.678    | 1.007  | 1.13        | 1.58   | 25 x 40  |
| 120                     | 380LX121M500K022       | 1.678    | 1.007  | 1.13        | 1.58   | 30 x 30  |
| 120                     | 380LX121M500K032       | 1.678    | 1.007  | 1.40        | 1.90   | 30 x 35  |
| 120                     | 380LX121M500A022       | 1.678    | 1.007  | 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       | 1.342    | 0.805  | 1.29        | 1.80   | 35 x 25  |
| 180                     | 380LX181M500J052       | 0.920    | 0.368  | 1.38        | 1.93   | 25 x 50  |
| 180                     | 380LX181M500K042       | 0.920    | 0.368  | 1.38        | 1.93   | 30 x 40  |
| 180                     | 380LX181M500A022       | 1.119    | 0.617  | 1.38        | 1.93   | 35 x 30  |
| 180                     | 380LX181M500A032       | 1.119    | 0.617  | 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       | 0.915    | 0.549  | 1.50        | 2.10   | 35 x 35  |
| 220                     | 380LX221M500A042       | 0.915    | 0.549  | 1.90        | 2.50   | 35 x 40  |
| 270                     | 380LX271M500A042       | 0.746    | 0.447  | 1.76        | 2.46   | 35 x 40  |
| 270                     | 380LX271M500A052       | 0.746    | 0.447  | 2.30        | 3.10   | 35 x 50  |
| 270                     | 382L271M500N042        | 0.746    | 0.447  | 2.40        | 3.20   | 40 x 40  |
| 330                     | 380LX331M500A452       | 0.610    | 0.366  | 1.99        | 2.79   | 35 x 45  |
| 330                     | 382LX331M500N042       | 0.610    | 0.366  | 2.16        | 3.00   | 40 x 40  |
| 390                     | 380LX391M500A052       | 0.516    | 0.310  | 2.22        | 3.11   | 35 x 50  |
| 390                     | 380LX391M500A062       | 0.516    | 0.310  | 2.70        | 3.60   | 35 x 63  |
| 390                     | 382L391M500N052        | 0.516    | 0.310  | 2.90        | 3.90   | 40 x 50  |
| 470                     | 380LX471M500A062       | 0.428    | 0.257  | 2.58        | 3.61   | 35 x 63  |
| 470                     | 380LX471M500A072       | 0.428    | 0.257  | 3.20        | 4.20   | 35 x 70  |
| 470                     | 382LX471M500N052       | 0.428    | 0.257  | 2.70        | 3.78   | 40 x 50  |
| 470                     | 382L471M500N062        | 0.428    | 0.257  | 3.40        | 4.50   | 40 x 63  |
| 560                     | 380LX561M500A082       | 0.360    | 0.216  | 3.60        | 4.80   | 35 x 80  |
| 560                     | 382LX561M500N062       | 0.360    | 0.216  | 3.11        | 4.35   | 40 x 63  |
| 560                     | 382LX561M500B052V      | 0.360    | 0.216  | 3.52        | 4.05   | 50 x 50  |
| 680                     | 380LX681M500A082       | 0.296    | 0.178  | 3.21        | 4.49   | 35 x 80  |
| 680                     | 382L681M500N082        | 0.296    | 0.178  | 4.50        | 6.00   | 40 x 80  |
| 680                     | 382LX681M500B062V      | 0.296    | 0.178  | 4.07        | 5.70   | 50 x 63  |
| 820                     | 380LX821M500A102       | 0.246    | 0.147  | 3.97        | 5.56   | 35 x 105 |
| 820                     | 382LX821M500N082       | 0.246    | 0.147  | 3.88        | 5.43   | 40 x 80  |
| 1000                    | 382LX102M500B082V      | 0.199    | 0.121  | 5.05        | 7.07   | 50 x 80  |
| 1200                    | 382LX122M500N102       | 0.168    | 0.101  | 5.90        | 8.26   | 40 x 105 |
| 1200                    | 382LX122M500B092V      | 0.168    | 0.101  | 5.74        | 8.04   | 50 x 92  |
| 1500                    | 382LX152M500B102V      | 0.134    | 0.081  | 6.65        | 9.31   | 50 x 105 |

# Type 380LX / 382LX 85 °C High Capacitance, Snap-In Aluminum

2, 4 and 5 pin styles available

| Cap.<br>(µF)            | Catalog<br>Part Number | Max. ESR<br>@ 25 °C |        | Ripple Amps<br>@ 85 °C |        | Nominal<br>Size D x L<br>(mm) |
|-------------------------|------------------------|---------------------|--------|------------------------|--------|-------------------------------|
|                         |                        | 120 Hz              | 20 kHz | 120 Hz                 | 20 kHz |                               |
| 550 Vdc (600 Vdc Surge) |                        |                     |        |                        |        |                               |
| 180                     | 380LX181M550A032       | 1.026               | 0.798  | 0.88                   | 1.36   | 35 x 35                       |
| 230                     | 380LX231M550A042       | 0.803               | 0.625  | 1.03                   | 1.59   | 35 x 40                       |
| 260                     | 380LX261M550A452       | 0.703               | 0.547  | 1.14                   | 1.75   | 35 x 45                       |
| 330                     | 380LX331M550A052       | 0.562               | 0.437  | 1.30                   | 2.01   | 35 x 50                       |

| Cap.<br>(µF)            | Catalog<br>Part Number | Max. ESR<br>@ 25 °C |        | Ripple Amps<br>@ 85 °C |        | Nominal<br>Size D x L<br>(mm) |
|-------------------------|------------------------|---------------------|--------|------------------------|--------|-------------------------------|
|                         |                        | 120 Hz              | 20 kHz | 120 Hz                 | 20 kHz |                               |
| 600 Vdc (650 Vdc Surge) |                        |                     |        |                        |        |                               |
| 150                     | 380LX151M600A032       | 1.319               | 1.026  | 0.79                   | 1.27   | 35 x 35                       |
| 200                     | 380LX201M600A042       | 1.032               | 0.803  | 0.92                   | 1.48   | 35 x 40                       |
| 230                     | 380LX231M600A452       | 0.903               | 0.703  | 1.02                   | 1.63   | 35 x 45                       |
| 280                     | 380LX281M600A052       | 0.723               | 0.562  | 1.17                   | 1.87   | 35 x 50                       |

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