

# Type SLPX 85 °C Snap-In Aluminum Electrolytic

## Best Value 85 °C Snap-In Type



Type SLPX is the best value package snap-in series for 85 °C, 3000 h operation. This series is the most cost-effective choice for DC filtering and power supply applications where long life and high ripple capability are needed.

### Highlights

- 3000 h ripple load life at rated voltage
- 85 °C rated
- Small case size with high capacitance
- Best for switching power supplies
- 22 mm to 35 mm diameter, 10 mm lead spacing
- Great value snap-in type
- High ripple current

### Specifications

|                                 |                                                                                                                                      |       |               |       |             |
|---------------------------------|--------------------------------------------------------------------------------------------------------------------------------------|-------|---------------|-------|-------------|
| Temperature Range               | -40 °C to +85 °C ≤ 250 Vdc<br>-25 °C to +85 °C ≥ 315 Vdc                                                                             |       |               |       |             |
| Rated Voltage Range             | 10 Vdc to 450 Vdc                                                                                                                    |       |               |       |             |
| Capacitance Range               | 68 μF to 82,000 μF                                                                                                                   |       |               |       |             |
| Capacitance Tolerance           | ±20%                                                                                                                                 |       |               |       |             |
| Leakage Current                 | ≤ 3 √CV μA at 5 minutes                                                                                                              |       |               |       |             |
| Ripple Current Multipliers      | Ambient Temperature                                                                                                                  |       |               |       |             |
|                                 | 20 °C - 45 °C                                                                                                                        | 55 °C | 65 °C - 75 °C | 85 °C |             |
|                                 | 1.58                                                                                                                                 | 1.41  | 1.22          | 1.00  |             |
|                                 | Frequency                                                                                                                            |       |               |       |             |
|                                 | Voltage                                                                                                                              | 60 Hz | 120 Hz        | 1 kHz | 10 kHz & Up |
|                                 | 10 - 100 Vdc                                                                                                                         | 0.90  | 1.00          | 1.15  | 1.25        |
|                                 | 160 - 450 Vdc                                                                                                                        | 0.80  | 1.00          | 1.15  | 1.47        |
|                                 | To apply multipliers, see ratings tables for ripple current values                                                                   |       |               |       |             |
| Low Temperature Characteristics | Impedance ratio: Z <sub>-20°C</sub> /Z <sub>+25°C</sub><br>≤ 10 (10 Vdc)<br>≤ 8 (16–50 Vdc)<br>≤ 4 (63–100 Vdc)<br>≤ 3 (150–450 Vdc) |       |               |       |             |
| Endurance Life                  | 3,000 h @ full load @ 85 °C<br>Δ Capacitance ±20%<br>ESR ≤200% of limit<br>DCL 100 % of limit                                        |       |               |       |             |
| Shelf Life                      | 1,000 h @ 85 °C<br>Δ Capacitance ±15%<br>ESR ≤150% of limit<br>DCL 100 % of limit                                                    |       |               |       |             |
| Vibration                       | 10 Hz to 55 Hz 0.06" and 10g max 2 h in each plane                                                                                   |       |               |       |             |
| RoHS Compliant                  |                                                                                                                                      |       |               |       |             |

# Type SLPX 85 °C Snap-In Aluminum Electrolytic

## Best Value 85 °C Snap-In Type Part Numbering System

|             |                                                  |                  |                               |                  |                 |                          |                                                                |
|-------------|--------------------------------------------------|------------------|-------------------------------|------------------|-----------------|--------------------------|----------------------------------------------------------------|
| <b>SLPX</b> | <b>562</b>                                       | <b>M</b>         | <b>025</b>                    | <b>A1</b>        | <b>P</b>        | <b>3</b>                 | <b>A</b>                                                       |
| <b>Type</b> | <b>Cap</b>                                       | <b>Tolerance</b> | <b>Voltage</b>                | <b>Case Code</b> | <b>Polarity</b> | <b>Insulating Sleeve</b> | <b>Pin Style</b>                                               |
| SLPX        | 821 = 820 µF<br>332 = 3300 µF<br>103 = 10,000 µF | M = ±20%         | 025 = 25 Vdc<br>250 = 250 Vdc |                  | P = Polarized   | 3 = PVC                  | Blank = 2 pins snap-in 6.3 mm L<br>A = 2 pins snap-in 4.0 mm L |

| Diameter |        | Length      mm      (in) |        |        |        |        |        |
|----------|--------|--------------------------|--------|--------|--------|--------|--------|
|          |        | 25                       | 30     | 35     | 40     | 45     | 50     |
|          |        | (1.00)                   | (1.18) | (1.38) | (1.57) | (1.77) | (2.00) |
| mm       | (in)   |                          |        |        |        |        |        |
| 22       | (0.87) | A1                       | A3     | A5     | A7     | A4     | A9     |
| 25       | (1.00) | C1                       | C3     | C5     | C7     | C4     | C9     |
| 30       | (1.18) | E1                       | E3     | E5     | E7     | E4     | E9     |
| 35       | (1.38) | H1                       | H3     | H5     | H7     | H4     | H9     |

## Outline Drawing



PC Board Mounting Holes

## Ratings

| Cap<br>(µF)           | 3000 h @ 85 °C<br>Catalog<br>Part Number | Max 25 °C ESR<br>(Ω)<br>120 Hz 20kHz | Max 85 °C Ripple<br>(A <sub>rms</sub> )<br>120 Hz 20kHz | Nominal<br>Size (DxL)<br>(mm) |
|-----------------------|------------------------------------------|--------------------------------------|---------------------------------------------------------|-------------------------------|
| 10 Vdc (13 Vdc Surge) |                                          |                                      |                                                         |                               |
| 12000                 | SLPX123M010A1P3                          | 0.061                                | 0.046                                                   | 2.41 3.01 22 x 25             |
| 15000                 | SLPX153M010A3P3                          | 0.049                                | 0.037                                                   | 2.88 3.60 22 x 30             |
| 15000                 | SLPX153M010C1P3                          | 0.049                                | 0.037                                                   | 2.88 3.60 25 x 25             |
| 18000                 | SLPX183M010A5P3                          | 0.041                                | 0.031                                                   | 3.22 4.03 22 x 35             |
| 18000                 | SLPX183M010C3P3                          | 0.041                                | 0.031                                                   | 3.08 3.85 25 x 30             |
| 22000                 | SLPX223M010A7P3                          | 0.033                                | 0.025                                                   | 3.79 4.74 22 x 40             |
| 22000                 | SLPX223M010C3P3                          | 0.033                                | 0.025                                                   | 3.66 4.58 25 x 30             |
| 22000                 | SLPX223M010E1P3                          | 0.033                                | 0.025                                                   | 3.53 4.41 30 x 25             |
| 27000                 | SLPX273M010A4P3                          | 0.027                                | 0.020                                                   | 4.04 5.05 22 x 45             |
| 27000                 | SLPX273M010C5P3                          | 0.027                                | 0.020                                                   | 4.04 5.05 25 x 35             |
| 27000                 | SLPX273M010E3P3                          | 0.027                                | 0.020                                                   | 3.99 4.99 30 x 30             |
| 33000                 | SLPX333M010A9P3                          | 0.022                                | 0.017                                                   | 4.58 5.73 22 x 50             |
| 33000                 | SLPX333M010C7P3                          | 0.022                                | 0.017                                                   | 4.56 5.70 25 x 40             |
| 33000                 | SLPX333M010E3P3                          | 0.022                                | 0.017                                                   | 4.58 5.73 30 x 30             |
| 39000                 | SLPX393M010C4P3                          | 0.019                                | 0.014                                                   | 5.29 6.61 25 x 45             |
| 39000                 | SLPX393M010E5P3                          | 0.019                                | 0.014                                                   | 5.21 6.51 30 x 35             |
| 39000                 | SLPX393M010H3P3                          | 0.019                                | 0.014                                                   | 5.50 6.88 35 x 30             |
| 47000                 | SLPX473M010C9P3                          | 0.016                                | 0.012                                                   | 5.78 7.23 25 x 50             |
| 47000                 | SLPX473M010E7P3                          | 0.016                                | 0.012                                                   | 5.78 7.23 30 x 40             |
| 47000                 | SLPX473M010H5P3                          | 0.016                                | 0.012                                                   | 5.55 6.94 35 x 35             |
| 56000                 | SLPX563M010E4P3                          | 0.013                                | 0.010                                                   | 6.59 8.24 30 x 45             |
| 56000                 | SLPX563M010H5P3                          | 0.013                                | 0.010                                                   | 6.40 8.00 35 x 35             |

Additional Voltages and Sizes available at [www.cde.com/catalogs/SLPX.pdf](http://www.cde.com/catalogs/SLPX.pdf)

| Cap<br>(µF)           | 3000 h @ 85 °C<br>Catalog<br>Part Number | Max 25 °C ESR<br>(Ω)<br>120 Hz 20kHz | Max 85 °C Ripple<br>(A <sub>rms</sub> )<br>120 Hz 20kHz | Nominal<br>Size (DxL)<br>(mm) |
|-----------------------|------------------------------------------|--------------------------------------|---------------------------------------------------------|-------------------------------|
| 10 Vdc (13 Vdc Surge) |                                          |                                      |                                                         |                               |
| 68000                 | SLPX683M010E9P3                          | 0.011                                | 0.008                                                   | 7.50 9.38 30 x 50             |
| 68000                 | SLPX683M010H7P3                          | 0.011                                | 0.008                                                   | 7.48 9.35 35 x 40             |
| 82000                 | SLPX823M010H9P3                          | 0.009                                | 0.007                                                   | 8.50 10.63 35 x 50            |
| 16 Vdc (20 Vdc Surge) |                                          |                                      |                                                         |                               |
| 8200                  | SLPX822M016A1P3                          | 0.081                                | 0.061                                                   | 2.56 3.20 22 x 25             |
| 10000                 | SLPX103M016A3P3                          | 0.066                                | 0.050                                                   | 2.89 3.61 22 x 30             |
| 12000                 | SLPX123M016A3P3                          | 0.055                                | 0.041                                                   | 3.13 3.91 22 x 30             |
| 12000                 | SLPX123M016C1P3                          | 0.055                                | 0.041                                                   | 3.01 3.76 25 x 25             |
| 15000                 | SLPX153M016A5P3                          | 0.044                                | 0.033                                                   | 3.69 4.61 22 x 35             |
| 15000                 | SLPX153M016C3P3                          | 0.044                                | 0.033                                                   | 3.64 4.55 25 x 30             |
| 15000                 | SLPX153M016E1P3                          | 0.044                                | 0.033                                                   | 3.73 4.66 30 x 25             |
| 18000                 | SLPX183M016A7P3                          | 0.037                                | 0.028                                                   | 3.98 4.98 22 x 40             |
| 18000                 | SLPX183M016C5P3                          | 0.037                                | 0.028                                                   | 3.98 4.98 25 x 35             |
| 18000                 | SLPX183M016E3P3                          | 0.037                                | 0.028                                                   | 3.88 4.85 30 x 30             |
| 22000                 | SLPX223M016A9P3                          | 0.030                                | 0.023                                                   | 4.52 5.65 22 x 50             |
| 22000                 | SLPX223M016C7P3                          | 0.030                                | 0.023                                                   | 4.44 5.55 25 x 40             |
| 22000                 | SLPX223M016E3P3                          | 0.030                                | 0.023                                                   | 4.38 5.48 30 x 30             |
| 27000                 | SLPX273M016C4P3                          | 0.025                                | 0.019                                                   | 4.98 6.23 25 x 45             |
| 27000                 | SLPX273M016E5P3                          | 0.025                                | 0.019                                                   | 4.95 6.19 30 x 35             |
| 27000                 | SLPX273M016H3P3                          | 0.025                                | 0.019                                                   | 4.82 6.03 35 x 30             |
| 33000                 | SLPX333M016C9P3                          | 0.020                                | 0.015                                                   | 5.49 6.86 25 x 50             |
| 33000                 | SLPX333M016E7P3                          | 0.020                                | 0.015                                                   | 5.60 7.00 30 x 40             |

# Type SLPX 85 °C Snap-In Aluminum Electrolytic

## Best Value 85 °C Snap-In Type

| Cap                   | 3000 h @ 85 °C  | Max 25 °C ESR |       | Max 85 °C Ripple    |       | Nominal    |
|-----------------------|-----------------|---------------|-------|---------------------|-------|------------|
| Catalog               |                 | (Ω)           |       | (A <sub>rms</sub> ) |       | Size (DxL) |
| Part Number           |                 | 120 Hz        | 20kHz | 120 Hz              | 20kHz | (mm)       |
| 16 Vdc (20 Vdc Surge) |                 |               |       |                     |       |            |
| 33000                 | SLPX333M016H3P3 | 0.020         | 0.015 | 5.46                | 6.83  | 35 x 30    |
| 39000                 | SLPX393M016E4P3 | 0.017         | 0.013 | 6.21                | 7.76  | 30 x 45    |
| 39000                 | SLPX393M016H5P3 | 0.017         | 0.013 | 6.12                | 7.65  | 35 x 35    |
| 47000                 | SLPX473M016E9P3 | 0.014         | 0.011 | 6.93                | 8.66  | 30 x 50    |
| 47000                 | SLPX473M016H7P3 | 0.014         | 0.011 | 6.89                | 8.61  | 35 x 40    |
| 56000                 | SLPX563M016H4P3 | 0.012         | 0.009 | 7.69                | 9.61  | 35 x 45    |
| 25 Vdc (32 Vdc Surge) |                 |               |       |                     |       |            |
| 5600                  | SLPX562M025A1P3 | 0.107         | 0.080 | 2.31                | 2.89  | 22 x 25    |
| 6800                  | SLPX682M025A3P3 | 0.088         | 0.066 | 2.56                | 3.20  | 22 x 30    |
| 8200                  | SLPX822M025A5P3 | 0.073         | 0.055 | 2.86                | 3.58  | 22 x 35    |
| 8200                  | SLPX822M025C1P3 | 0.073         | 0.055 | 2.78                | 3.48  | 25 x 25    |
| 10000                 | SLPX103M025A5P3 | 0.060         | 0.045 | 3.31                | 4.14  | 22 x 35    |
| 10000                 | SLPX103M025C3P3 | 0.060         | 0.045 | 3.16                | 3.95  | 25 x 30    |
| 10000                 | SLPX103M025E1P3 | 0.060         | 0.045 | 3.28                | 4.10  | 30 x 25    |
| 12000                 | SLPX123M025A7P3 | 0.050         | 0.038 | 3.77                | 4.71  | 22 x 40    |
| 12000                 | SLPX123M025C5P3 | 0.050         | 0.038 | 3.63                | 4.54  | 25 x 35    |
| 12000                 | SLPX123M025E1P3 | 0.050         | 0.038 | 3.80                | 4.75  | 30 x 25    |
| 15000                 | SLPX153M025A9P3 | 0.040         | 0.030 | 4.21                | 5.26  | 22 x 50    |
| 15000                 | SLPX153M025C7P3 | 0.040         | 0.030 | 4.10                | 5.13  | 25 x 40    |
| 15000                 | SLPX153M025E3P3 | 0.040         | 0.030 | 4.00                | 5.00  | 30 x 30    |
| 18000                 | SLPX183M025C4P3 | 0.033         | 0.025 | 4.68                | 5.85  | 25 x 45    |
| 18000                 | SLPX183M025E5P3 | 0.033         | 0.025 | 4.66                | 5.83  | 30 x 35    |
| 18000                 | SLPX183M025H3P3 | 0.033         | 0.025 | 4.68                | 5.85  | 35 x 30    |
| 22000                 | SLPX223M025C9P3 | 0.027         | 0.020 | 5.29                | 6.61  | 25 x 50    |
| 22000                 | SLPX223M025E7P3 | 0.027         | 0.020 | 5.33                | 6.66  | 30 x 40    |
| 22000                 | SLPX223M025H5P3 | 0.027         | 0.020 | 5.26                | 6.58  | 35 x 35    |
| 27000                 | SLPX273M025E4P3 | 0.022         | 0.017 | 6.02                | 7.53  | 30 x 45    |
| 27000                 | SLPX273M025H7P3 | 0.022         | 0.017 | 6.02                | 7.53  | 35 x 40    |
| 33000                 | SLPX333M025E9P3 | 0.018         | 0.014 | 5.29                | 6.61  | 30 x 50    |
| 33000                 | SLPX333M025H4P3 | 0.018         | 0.014 | 6.75                | 8.44  | 35 x 45    |
| 39000                 | SLPX393M025H9P3 | 0.015         | 0.011 | 7.56                | 9.45  | 35 x 50    |
| 35 Vdc (44 Vdc Surge) |                 |               |       |                     |       |            |
| 3900                  | SLPX392M035A1P3 | 0.136         | 0.102 | 2.22                | 2.78  | 22 x 25    |
| 4700                  | SLPX472M035A3P3 | 0.113         | 0.085 | 2.46                | 3.08  | 22 x 30    |
| 4700                  | SLPX472M035C1P3 | 0.113         | 0.085 | 2.43                | 3.04  | 25 x 25    |
| 5600                  | SLPX562M035A3P3 | 0.095         | 0.071 | 2.61                | 3.26  | 22 x 30    |
| 5600                  | SLPX562M035A5P3 | 0.095         | 0.071 | 2.79                | 3.49  | 22 x 35    |
| 5600                  | SLPX562M035C3P3 | 0.095         | 0.071 | 2.75                | 3.44  | 25 x 30    |
| 6800                  | SLPX682M035A7P3 | 0.078         | 0.059 | 2.97                | 3.71  | 22 x 40    |
| 6800                  | SLPX682M035C3P3 | 0.078         | 0.059 | 2.89                | 3.61  | 25 x 30    |
| 6800                  | SLPX682M035E1P3 | 0.078         | 0.059 | 3.09                | 3.86  | 30 x 25    |
| 8200                  | SLPX822M035A4P3 | 0.065         | 0.049 | 3.47                | 4.34  | 22 x 45    |
| 8200                  | SLPX822M035C5P3 | 0.065         | 0.049 | 3.33                | 4.16  | 25 x 35    |
| 8200                  | SLPX822M035E3P3 | 0.065         | 0.049 | 3.29                | 4.11  | 30 x 30    |
| 10000                 | SLPX103M035A9P3 | 0.053         | 0.040 | 3.75                | 4.69  | 22 x 50    |
| 35 Vdc (44 Vdc Surge) |                 |               |       |                     |       |            |
| 10000                 | SLPX103M035C7P3 | 0.053         | 0.040 | 3.65                | 4.56  | 25 x 40    |
| 10000                 | SLPX103M035E3P3 | 0.053         | 0.040 | 3.61                | 4.51  | 30 x 30    |
| 12000                 | SLPX123M035C4P3 | 0.044         | 0.033 | 4.15                | 5.19  | 25 x 45    |
| 12000                 | SLPX123M035E5P3 | 0.044         | 0.033 | 4.14                | 5.18  | 30 x 35    |
| 12000                 | SLPX123M035H3P3 | 0.044         | 0.033 | 4.27                | 5.34  | 35 x 30    |
| 15000                 | SLPX153M035C9P3 | 0.035         | 0.026 | 4.77                | 5.96  | 25 x 50    |
| 15000                 | SLPX153M035E7P3 | 0.035         | 0.026 | 4.80                | 6.00  | 30 x 40    |
| 15000                 | SLPX153M035H5P3 | 0.035         | 0.026 | 4.95                | 6.19  | 35 x 35    |
| 18000                 | SLPX183M035E4P3 | 0.029         | 0.022 | 5.30                | 6.63  | 30 x 45    |
| 18000                 | SLPX183M035H7P3 | 0.029         | 0.022 | 5.71                | 7.14  | 35 x 40    |
| 22000                 | SLPX223M035H4P3 | 0.024         | 0.018 | 6.38                | 7.98  | 35 x 45    |
| 27000                 | SLPX273M035H9P3 | 0.020         | 0.015 | 6.90                | 8.63  | 35 x 50    |
| 50 Vdc (63 Vdc Surge) |                 |               |       |                     |       |            |
| 2200                  | SLPX222M050A1P3 | 0.211         | 0.158 | 1.93                | 2.41  | 22 x 25    |
| 2700                  | SLPX272M050A3P3 | 0.172         | 0.129 | 2.21                | 2.76  | 22 x 30    |
| 3300                  | SLPX332M050A3P3 | 0.141         | 0.106 | 2.41                | 3.01  | 22 x 30    |
| 3300                  | SLPX332M050C1P3 | 0.141         | 0.106 | 2.38                | 2.98  | 25 x 25    |
| 3900                  | SLPX392M050A5P3 | 0.119         | 0.089 | 2.72                | 3.40  | 22 x 35    |
| 3900                  | SLPX392M050C3P3 | 0.119         | 0.089 | 2.68                | 3.35  | 25 x 30    |
| 4700                  | SLPX472M050A7P3 | 0.099         | 0.074 | 3.02                | 3.78  | 22 x 40    |
| 4700                  | SLPX472M050C3P3 | 0.099         | 0.074 | 3.07                | 3.84  | 25 x 30    |
| 4700                  | SLPX472M050E1P3 | 0.099         | 0.074 | 3.01                | 3.76  | 30 x 25    |
| 5600                  | SLPX562M050A7P3 | 0.083         | 0.062 | 3.26                | 4.08  | 22 x 40    |
| 5600                  | SLPX562M050A4P3 | 0.083         | 0.062 | 3.43                | 4.29  | 22 x 45    |
| 5600                  | SLPX562M050C5P3 | 0.083         | 0.062 | 3.47                | 4.34  | 25 x 35    |
| 5600                  | SLPX562M050E3P3 | 0.083         | 0.062 | 3.43                | 4.29  | 30 x 30    |
| 6800                  | SLPX682M050A9P3 | 0.068         | 0.051 | 3.94                | 4.93  | 22 x 50    |
| 6800                  | SLPX682M050C7P3 | 0.068         | 0.051 | 3.87                | 4.84  | 25 x 40    |
| 6800                  | SLPX682M050E5P3 | 0.068         | 0.051 | 3.93                | 4.91  | 30 x 35    |
| 8200                  | SLPX822M050C4P3 | 0.057         | 0.043 | 4.44                | 5.55  | 25 x 45    |
| 8200                  | SLPX822M050E5P3 | 0.057         | 0.043 | 4.47                | 5.59  | 30 x 35    |
| 8200                  | SLPX822M050H3P3 | 0.057         | 0.043 | 4.41                | 5.51  | 35 x 30    |
| 10000                 | SLPX103M050E7P3 | 0.046         | 0.035 | 5.08                | 6.35  | 30 x 40    |
| 10000                 | SLPX103M050H5P3 | 0.046         | 0.035 | 4.92                | 6.15  | 35 x 35    |
| 12000                 | SLPX123M050E9P3 | 0.039         | 0.029 | 5.72                | 7.15  | 30 x 50    |
| 12000                 | SLPX123M050H7P3 | 0.039         | 0.029 | 5.69                | 7.11  | 35 x 40    |
| 15000                 | SLPX153M050H4P3 | 0.031         | 0.023 | 6.56                | 8.20  | 35 x 45    |
| 18000                 | SLPX183M050H9P3 | 0.026         | 0.020 | 7.14                | 8.93  | 35 x 50    |
| 22000                 | SLPX223M050H9P3 | 0.021         | 0.016 | 7.89                | 9.86  | 35 x 50    |
| 63 Vdc (79 Vdc Surge) |                 |               |       |                     |       |            |
| 1800                  | SLPX182M063A1P3 | 0.221         | 0.166 | 1.90                | 2.38  | 22 x 25    |
| 2200                  | SLPX222M063A3P3 | 0.181         | 0.136 | 2.35                | 2.94  | 22 x 30    |
| 2200                  | SLPX222M063C1P3 | 0.181         | 0.136 | 2.30                | 2.88  | 25 x 25    |
| 2700                  | SLPX272M063A5P3 | 0.147         | 0.110 | 2.50                | 3.13  | 22 x 35    |
| 2700                  | SLPX272M063C3P3 | 0.147         | 0.110 | 2.52                | 3.15  | 25 x 30    |

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## Best Value 85 °C Snap-In Type

| Cap                     | 3000 h @ 85 °C  | Max 25 °C ESR |       | Max 85 °C Ripple    |       | Nominal    |
|-------------------------|-----------------|---------------|-------|---------------------|-------|------------|
| Cap                     | Catalog         | (Ω)           |       | (A <sub>rms</sub> ) |       | Size (DxL) |
| (µF)                    | Part Number     | 120 Hz        | 20kHz | 120 Hz              | 20kHz | (mm)       |
| 63 Vdc (79 Vdc Surge)   |                 |               |       |                     |       |            |
| 3300                    | SLPX332M063A7P3 | 0.121         | 0.091 | 2.72                | 3.40  | 22 x 40    |
| 3300                    | SLPX332M063C3P3 | 0.121         | 0.091 | 2.74                | 3.43  | 25 x 30    |
| 3300                    | SLPX332M063E1P3 | 0.121         | 0.091 | 2.78                | 3.48  | 30 x 25    |
| 3900                    | SLPX392M063A4P3 | 0.102         | 0.077 | 3.09                | 3.86  | 22 x 45    |
| 3900                    | SLPX392M063C5P3 | 0.102         | 0.077 | 3.13                | 3.91  | 25 x 35    |
| 3900                    | SLPX392M063E3P3 | 0.102         | 0.077 | 3.09                | 3.86  | 30 x 30    |
| 4700                    | SLPX472M063A9P3 | 0.085         | 0.064 | 3.69                | 4.61  | 22 x 50    |
| 4700                    | SLPX472M063C7P3 | 0.085         | 0.064 | 3.59                | 4.49  | 25 x 40    |
| 4700                    | SLPX472M063E3P3 | 0.085         | 0.064 | 3.54                | 4.43  | 30 x 30    |
| 5600                    | SLPX562M063C4P3 | 0.071         | 0.053 | 4.01                | 5.01  | 25 x 45    |
| 5600                    | SLPX562M063E5P3 | 0.071         | 0.053 | 4.00                | 5.00  | 30 x 35    |
| 5600                    | SLPX562M063H3P3 | 0.071         | 0.053 | 3.75                | 4.69  | 35 x 30    |
| 6800                    | SLPX682M063C9P3 | 0.059         | 0.044 | 4.52                | 5.65  | 25 x 50    |
| 6800                    | SLPX682M063E7P3 | 0.059         | 0.044 | 4.55                | 5.69  | 30 x 40    |
| 6800                    | SLPX682M063H3P3 | 0.059         | 0.044 | 4.44                | 5.55  | 35 x 30    |
| 8200                    | SLPX822M063E4P3 | 0.049         | 0.037 | 5.12                | 6.40  | 30 x 45    |
| 8200                    | SLPX822M063H5P3 | 0.049         | 0.037 | 5.05                | 6.31  | 35 x 35    |
| 10000                   | SLPX103M063E9P3 | 0.040         | 0.030 | 5.78                | 7.23  | 30 x 50    |
| 10000                   | SLPX103M063H7P3 | 0.040         | 0.030 | 5.75                | 7.19  | 35 x 40    |
| 12000                   | SLPX123M063E9P3 | 0.033         | 0.025 | 6.20                | 7.75  | 30 x 50    |
| 12000                   | SLPX123M063H4P3 | 0.033         | 0.025 | 6.47                | 8.09  | 35 x 45    |
| 12000                   | SLPX123M063H9P3 | 0.033         | 0.025 | 6.76                | 8.45  | 35 x 50    |
| 80 Vdc (100 Vdc Surge)  |                 |               |       |                     |       |            |
| 1200                    | SLPX122M080A1P3 | 0.276         | 0.207 | 1.77                | 2.21  | 22 x 25    |
| 1500                    | SLPX152M080A3P3 | 0.221         | 0.166 | 2.01                | 2.51  | 22 x 30    |
| 1800                    | SLPX182M080A3P3 | 0.184         | 0.138 | 2.11                | 2.64  | 22 x 30    |
| 1800                    | SLPX182M080C1P3 | 0.184         | 0.138 | 2.26                | 2.83  | 25 x 25    |
| 2200                    | SLPX222M080A7P3 | 0.151         | 0.113 | 2.53                | 3.16  | 22 x 40    |
| 2200                    | SLPX222M080C3P3 | 0.151         | 0.113 | 2.53                | 3.16  | 25 x 30    |
| 2200                    | SLPX222M080E1P3 | 0.151         | 0.113 | 2.56                | 3.20  | 30 x 25    |
| 2700                    | SLPX272M080A4P3 | 0.123         | 0.092 | 2.93                | 3.66  | 22 x 45    |
| 2700                    | SLPX272M080C5P3 | 0.123         | 0.092 | 2.93                | 3.66  | 25 x 35    |
| 2700                    | SLPX272M080E3P3 | 0.123         | 0.092 | 2.91                | 3.64  | 30 x 30    |
| 3300                    | SLPX332M080A9P3 | 0.101         | 0.076 | 3.23                | 4.04  | 22 x 50    |
| 3300                    | SLPX332M080C7P3 | 0.101         | 0.076 | 3.29                | 4.11  | 25 x 40    |
| 3300                    | SLPX332M080E3P3 | 0.101         | 0.076 | 3.25                | 4.06  | 30 x 30    |
| 3900                    | SLPX392M080C4P3 | 0.085         | 0.064 | 3.62                | 4.53  | 25 x 45    |
| 3900                    | SLPX392M080E5P3 | 0.085         | 0.064 | 3.70                | 4.63  | 30 x 35    |
| 4700                    | SLPX472M080C9P3 | 0.071         | 0.053 | 4.28                | 5.35  | 25 x 50    |
| 4700                    | SLPX472M080E7P3 | 0.071         | 0.053 | 4.23                | 5.29  | 30 x 40    |
| 4700                    | SLPX472M080H3P3 | 0.071         | 0.053 | 4.12                | 5.15  | 35 x 30    |
| 5600                    | SLPX562M080E4P3 | 0.059         | 0.044 | 4.70                | 5.88  | 30 x 45    |
| 5600                    | SLPX562M080H5P3 | 0.059         | 0.044 | 4.64                | 5.80  | 35 x 35    |
| 6800                    | SLPX682M080E9P3 | 0.049         | 0.037 | 5.27                | 6.59  | 30 x 50    |
| 6800                    | SLPX682M080H7P3 | 0.049         | 0.037 | 5.24                | 6.55  | 35 x 40    |
| 80 Vdc (100 Vdc Surge)  |                 |               |       |                     |       |            |
| 8200                    | SLPX822M080H4P3 | 0.040         | 0.030 | 5.89                | 7.36  | 35 x 45    |
| 10000                   | SLPX103M080H9P3 | 0.033         | 0.025 | 6.63                | 8.29  | 35 x 50    |
| 100 Vdc (125 Vdc Surge) |                 |               |       |                     |       |            |
| 820                     | SLPX821M100A1P3 | 0.324         | 0.243 | 1.86                | 2.33  | 22 x 25    |
| 1000                    | SLPX102M100A3P3 | 0.265         | 0.199 | 2.02                | 2.53  | 22 x 30    |
| 1200                    | SLPX122M100A3P3 | 0.221         | 0.166 | 2.12                | 2.65  | 22 x 30    |
| 1200                    | SLPX122M100C1P3 | 0.221         | 0.166 | 2.11                | 2.64  | 25 x 25    |
| 1500                    | SLPX152M100A5P3 | 0.177         | 0.133 | 2.45                | 3.06  | 22 x 35    |
| 1500                    | SLPX152M100C3P3 | 0.177         | 0.133 | 2.47                | 3.09  | 25 x 30    |
| 1800                    | SLPX182M100A7P3 | 0.147         | 0.110 | 2.77                | 3.46  | 22 x 40    |
| 1800                    | SLPX182M100C5P3 | 0.147         | 0.110 | 2.81                | 3.51  | 25 x 35    |
| 1800                    | SLPX182M100E1P3 | 0.147         | 0.110 | 2.65                | 3.31  | 30 x 25    |
| 2200                    | SLPX222M100A4P3 | 0.121         | 0.091 | 3.15                | 3.94  | 22 x 45    |
| 2200                    | SLPX222M100C7P3 | 0.121         | 0.091 | 3.21                | 4.01  | 25 x 40    |
| 2200                    | SLPX222M100E3P3 | 0.121         | 0.091 | 3.17                | 3.96  | 30 x 30    |
| 2700                    | SLPX272M100C4P3 | 0.098         | 0.074 | 3.66                | 4.58  | 25 x 45    |
| 2700                    | SLPX272M100E5P3 | 0.098         | 0.074 | 3.65                | 4.56  | 30 x 35    |
| 2700                    | SLPX272M100H3P3 | 0.098         | 0.074 | 3.77                | 4.71  | 35 x 30    |
| 3300                    | SLPX332M100C9P3 | 0.080         | 0.060 | 4.15                | 5.19  | 25 x 50    |
| 3300                    | SLPX332M100E7P3 | 0.080         | 0.060 | 4.18                | 5.23  | 30 x 40    |
| 3300                    | SLPX332M100H5P3 | 0.080         | 0.060 | 4.07                | 5.09  | 35 x 35    |
| 3900                    | SLPX392M100E4P3 | 0.068         | 0.051 | 4.67                | 5.84  | 30 x 45    |
| 3900                    | SLPX392M100H5P3 | 0.068         | 0.051 | 4.61                | 5.76  | 35 x 35    |
| 4700                    | SLPX472M100H7P3 | 0.056         | 0.042 | 5.23                | 6.54  | 35 x 40    |
| 4700                    | SLPX472M100E9P3 | 0.056         | 0.042 | 5.26                | 6.58  | 30 x 50    |
| 5600                    | SLPX562M100H4P3 | 0.047         | 0.035 | 5.88                | 7.35  | 35 x 45    |
| 6800                    | SLPX682M100H9P3 | 0.039         | 0.029 | 6.01                | 7.51  | 35 x 50    |
| 160 Vdc (200 Vdc Surge) |                 |               |       |                     |       |            |
| 390                     | SLPX391M160A1P3 | 0.510         | 0.383 | 1.63                | 2.40  | 22 x 25    |
| 470                     | SLPX471M160A3P3 | 0.423         | 0.317 | 1.86                | 2.73  | 22 x 30    |
| 470                     | SLPX471M160C1P3 | 0.423         | 0.317 | 1.86                | 2.73  | 25 x 25    |
| 560                     | SLPX561M160A3P3 | 0.355         | 0.266 | 2.15                | 3.16  | 22 x 30    |
| 560                     | SLPX561M160C3P3 | 0.355         | 0.266 | 2.15                | 3.16  | 25 x 30    |
| 680                     | SLPX681M160A7P3 | 0.293         | 0.220 | 2.35                | 3.45  | 22 x 40    |
| 680                     | SLPX681M160C3P3 | 0.293         | 0.220 | 2.33                | 3.43  | 25 x 30    |
| 680                     | SLPX681M160E1P3 | 0.293         | 0.220 | 2.33                | 3.43  | 30 x 25    |
| 820                     | SLPX821M160A4P3 | 0.243         | 0.182 | 2.68                | 3.94  | 22 x 45    |
| 820                     | SLPX821M160C5P3 | 0.243         | 0.182 | 2.65                | 3.90  | 25 x 35    |
| 820                     | SLPX821M160E3P3 | 0.243         | 0.182 | 2.64                | 3.88  | 30 x 30    |
| 1000                    | SLPX102M160A9P3 | 0.199         | 0.149 | 3.02                | 4.44  | 22 x 50    |
| 1000                    | SLPX102M160C7P3 | 0.199         | 0.149 | 3.00                | 4.41  | 25 x 40    |
| 1000                    | SLPX102M160E3P3 | 0.199         | 0.149 | 2.96                | 4.35  | 30 x 30    |
| 1200                    | SLPX122M160C4P3 | 0.166         | 0.125 | 3.43                | 5.04  | 25 x 45    |
| 1200                    | SLPX122M160E5P3 | 0.166         | 0.125 | 3.41                | 5.01  | 30 x 35    |
| 1200                    | SLPX122M160H3P3 | 0.166         | 0.125 | 3.40                | 5.00  | 35 x 30    |

# Type SLPX 85 °C Snap-In Aluminum Electrolytic

## Best Value 85 °C Snap-In Type

| Cap                     | 3000 h @ 85 °C  | Max 25 °C ESR |       | Max 85 °C Ripple    |       | Nominal    |
|-------------------------|-----------------|---------------|-------|---------------------|-------|------------|
| Catalog                 |                 | (Ω)           |       | (A <sub>rms</sub> ) |       | Size (DxL) |
| (µF)                    | Part Number     | 120 Hz        | 20kHz | 120 Hz              | 20kHz | (mm)       |
| 160 Vdc (200 Vdc Surge) |                 |               |       |                     |       |            |
| 1500                    | SLPX152M160E7P3 | 0.133         | 0.100 | 3.96                | 5.82  | 30 x 40    |
| 1500                    | SLPX152M160H5P3 | 0.133         | 0.100 | 3.94                | 5.79  | 35 x 35    |
| 1800                    | SLPX182M160E4P3 | 0.111         | 0.083 | 4.31                | 6.34  | 30 x 45    |
| 1800                    | SLPX182M160H5P3 | 0.111         | 0.083 | 4.28                | 6.29  | 35 x 35    |
| 2200                    | SLPX222M160H7P3 | 0.090         | 0.068 | 4.96                | 7.29  | 35 x 40    |
| 2700                    | SLPX272M160H9P3 | 0.074         | 0.056 | 5.57                | 8.19  | 35 x 50    |
| 180 Vdc (225 Vdc Surge) |                 |               |       |                     |       |            |
| 330                     | SLPX331M180A1P3 | 0.603         | 0.452 | 1.49                | 2.19  | 22 x 25    |
| 390                     | SLPX391M180A1P3 | 0.510         | 0.383 | 1.84                | 2.70  | 22 x 25    |
| 470                     | SLPX471M180A3P3 | 0.423         | 0.317 | 1.91                | 2.81  | 22 x 30    |
| 470                     | SLPX471M180C1P3 | 0.423         | 0.317 | 2.08                | 3.06  | 25 x 25    |
| 560                     | SLPX561M180A5P3 | 0.355         | 0.266 | 2.25                | 3.31  | 22 x 35    |
| 560                     | SLPX561M180C1P3 | 0.355         | 0.266 | 2.25                | 3.31  | 25 x 25    |
| 680                     | SLPX681M180A5P3 | 0.293         | 0.220 | 2.48                | 3.65  | 22 x 35    |
| 680                     | SLPX681M180C3P3 | 0.293         | 0.220 | 2.50                | 3.68  | 25 x 30    |
| 680                     | SLPX681M180E1P3 | 0.293         | 0.220 | 2.46                | 3.62  | 30 x 25    |
| 820                     | SLPX821M180A7P3 | 0.243         | 0.182 | 2.86                | 4.20  | 22 x 40    |
| 820                     | SLPX821M180C5P3 | 0.243         | 0.182 | 2.75                | 4.04  | 25 x 35    |
| 820                     | SLPX821M180E1P3 | 0.243         | 0.182 | 2.69                | 3.95  | 30 x 25    |
| 1000                    | SLPX102M180C7P3 | 0.199         | 0.149 | 3.06                | 4.50  | 25 x 40    |
| 1000                    | SLPX102M180E3P3 | 0.199         | 0.149 | 3.10                | 4.56  | 30 x 30    |
| 1200                    | SLPX122M180C4P3 | 0.166         | 0.125 | 3.63                | 5.34  | 25 x 45    |
| 1200                    | SLPX122M180E5P3 | 0.166         | 0.125 | 3.55                | 5.22  | 30 x 35    |
| 1200                    | SLPX122M180H3P3 | 0.166         | 0.125 | 3.49                | 5.13  | 35 x 30    |
| 1500                    | SLPX152M180E7P3 | 0.133         | 0.100 | 4.10                | 6.03  | 30 x 40    |
| 1500                    | SLPX152M180H5P3 | 0.133         | 0.100 | 4.02                | 5.91  | 35 x 35    |
| 1800                    | SLPX182M180E4P3 | 0.111         | 0.083 | 4.55                | 6.69  | 30 x 45    |
| 1800                    | SLPX182M180H5P3 | 0.111         | 0.083 | 4.54                | 6.67  | 35 x 35    |
| 2200                    | SLPX222M180H7P3 | 0.090         | 0.068 | 4.83                | 6.04  | 35 x 40    |
| 2700                    | SLPX272M180H9P3 | 0.074         | 0.056 | 5.30                | 6.63  | 35 x 50    |
| 200 Vdc (250 Vdc Surge) |                 |               |       |                     |       |            |
| 270                     | SLPX271M200A1P3 | 0.737         | 0.553 | 1.37                | 2.01  | 22 x 25    |
| 330                     | SLPX331M200A3P3 | 0.603         | 0.452 | 1.63                | 2.40  | 22 x 30    |
| 330                     | SLPX331M200A1P3 | 0.603         | 0.452 | 1.51                | 2.22  | 22 x 25    |
| 390                     | SLPX391M200A3P3 | 0.510         | 0.383 | 1.73                | 2.54  | 22 x 30    |
| 390                     | SLPX391M200C1P3 | 0.510         | 0.383 | 1.71                | 2.51  | 25 x 25    |
| 470                     | SLPX471M200A3P3 | 0.423         | 0.317 | 1.97                | 2.90  | 22 x 30    |
| 470                     | SLPX471M200C3P3 | 0.423         | 0.317 | 1.95                | 2.87  | 25 x 30    |
| 560                     | SLPX561M200A7P3 | 0.355         | 0.266 | 2.18                | 3.20  | 22 x 40    |
| 560                     | SLPX561M200C3P3 | 0.355         | 0.266 | 2.15                | 3.16  | 25 x 30    |
| 560                     | SLPX561M200E1P3 | 0.355         | 0.266 | 2.15                | 3.16  | 30 x 25    |
| 680                     | SLPX681M200A4P3 | 0.293         | 0.220 | 2.48                | 3.65  | 22 x 45    |
| 680                     | SLPX681M200C5P3 | 0.293         | 0.220 | 2.48                | 3.65  | 25 x 35    |
| 680                     | SLPX681M200E3P3 | 0.293         | 0.220 | 2.48                | 3.65  | 30 x 30    |
| 820                     | SLPX821M200A9P3 | 0.243         | 0.182 | 2.81                | 4.13  | 22 x 50    |

| Cap                     | 3000 h @ 85 °C  | Max 25 °C ESR |       | Max 85 °C Ripple    |       | Nominal    |
|-------------------------|-----------------|---------------|-------|---------------------|-------|------------|
| Catalog                 |                 | (Ω)           |       | (A <sub>rms</sub> ) |       | Size (DxL) |
| (µF)                    | Part Number     | 120 Hz        | 20kHz | 120 Hz              | 20kHz | (mm)       |
| 200 Vdc (250 Vdc Surge) |                 |               |       |                     |       |            |
| 820                     | SLPX821M200C7P3 | 0.243         | 0.182 | 2.79                | 4.10  | 25 x 40    |
| 820                     | SLPX821M200E3P3 | 0.243         | 0.182 | 2.75                | 4.04  | 30 x 30    |
| 1000                    | SLPX102M200C4P3 | 0.199         | 0.149 | 3.28                | 4.82  | 25 x 45    |
| 1000                    | SLPX102M200E5P3 | 0.199         | 0.149 | 3.15                | 4.63  | 30 x 35    |
| 1000                    | SLPX102M200H3P3 | 0.199         | 0.149 | 3.25                | 4.78  | 35 x 30    |
| 1200                    | SLPX122M200C9P3 | 0.166         | 0.125 | 3.61                | 5.31  | 25 x 50    |
| 1200                    | SLPX122M200E7P3 | 0.166         | 0.125 | 3.61                | 5.31  | 30 x 40    |
| 1200                    | SLPX122M200E4P3 | 0.166         | 0.125 | 3.80                | 5.59  | 30 x 45    |
| 1200                    | SLPX122M200H5P3 | 0.166         | 0.125 | 3.57                | 5.25  | 35 x 35    |
| 1500                    | SLPX152M200E4P3 | 0.133         | 0.100 | 4.13                | 6.07  | 30 x 45    |
| 1500                    | SLPX152M200H5P3 | 0.133         | 0.100 | 3.85                | 5.66  | 35 x 35    |
| 1500                    | SLPX152M200H7P3 | 0.133         | 0.100 | 4.06                | 5.97  | 35 x 40    |
| 1500                    | SLPX152M200H4P3 | 0.133         | 0.100 | 4.26                | 6.26  | 35 x 45    |
| 1800                    | SLPX182M200H4P3 | 0.111         | 0.083 | 4.59                | 6.75  | 35 x 45    |
| 2200                    | SLPX222M200H9P3 | 0.090         | 0.068 | 5.25                | 7.72  | 35 x 50    |
| 220 Vdc (270 Vdc Surge) |                 |               |       |                     |       |            |
| 220                     | SLPX221M220A1P3 | 0.905         | 0.679 | 1.30                | 1.91  | 22 x 25    |
| 270                     | SLPX271M220A1P3 | 0.737         | 0.553 | 1.42                | 2.09  | 22 x 25    |
| 330                     | SLPX331M220A3P3 | 0.603         | 0.452 | 1.59                | 2.34  | 22 x 30    |
| 330                     | SLPX331M220C1P3 | 0.603         | 0.452 | 1.59                | 2.34  | 25 x 25    |
| 390                     | SLPX391M220A5P3 | 0.510         | 0.383 | 1.80                | 2.65  | 22 x 35    |
| 390                     | SLPX391M220C1P3 | 0.510         | 0.383 | 1.75                | 2.57  | 25 x 25    |
| 470                     | SLPX471M220A5P3 | 0.423         | 0.317 | 2.06                | 3.03  | 22 x 35    |
| 470                     | SLPX471M220C3P3 | 0.423         | 0.317 | 2.08                | 3.06  | 25 x 30    |
| 470                     | SLPX471M220E1P3 | 0.423         | 0.317 | 2.16                | 3.18  | 30 x 25    |
| 560                     | SLPX561M220A7P3 | 0.355         | 0.266 | 2.22                | 3.26  | 22 x 40    |
| 560                     | SLPX561M220C5P3 | 0.355         | 0.266 | 2.38                | 3.50  | 25 x 35    |
| 560                     | SLPX561M220E1P3 | 0.355         | 0.266 | 2.18                | 3.20  | 30 x 25    |
| 680                     | SLPX681M220A4P3 | 0.293         | 0.220 | 2.62                | 3.85  | 22 x 45    |
| 680                     | SLPX681M220C7P3 | 0.293         | 0.220 | 2.56                | 3.76  | 25 x 40    |
| 680                     | SLPX681M220E3P3 | 0.293         | 0.220 | 2.52                | 3.70  | 30 x 30    |
| 820                     | SLPX821M220C4P3 | 0.243         | 0.182 | 2.91                | 4.28  | 25 x 45    |
| 820                     | SLPX821M220E5P3 | 0.243         | 0.182 | 2.84                | 4.17  | 30 x 35    |
| 820                     | SLPX821M220H3P3 | 0.243         | 0.182 | 2.79                | 4.10  | 35 x 35    |
| 1000                    | SLPX102M220C9P3 | 0.199         | 0.149 | 3.53                | 5.19  | 25 x 50    |
| 1000                    | SLPX102M220E7P3 | 0.199         | 0.149 | 3.36                | 4.94  | 30 x 40    |
| 1000                    | SLPX102M220H3P3 | 0.199         | 0.149 | 3.29                | 4.84  | 35 x 30    |
| 1200                    | SLPX122M220E7P3 | 0.166         | 0.125 | 3.54                | 5.20  | 30 x 40    |
| 1200                    | SLPX122M220E4P3 | 0.166         | 0.125 | 3.72                | 5.47  | 30 x 45    |
| 1200                    | SLPX122M220H5P3 | 0.166         | 0.125 | 3.68                | 5.41  | 35 x 35    |
| 1500                    | SLPX152M220H7P3 | 0.133         | 0.100 | 4.10                | 5.13  | 35 x 40    |
| 1800                    | SLPX182M220H4P3 | 0.111         | 0.083 | 4.52                | 5.65  | 35 x 45    |
| 250 Vdc (300 Vdc Surge) |                 |               |       |                     |       |            |
| 220                     | SLPX221M250A1P3 | 0.905         | 0.679 | 1.24                | 1.82  | 22 x 25    |
| 270                     | SLPX271M250A3P3 | 0.737         | 0.553 | 1.50                | 2.21  | 22 x 30    |

# Type SLPX 85 °C Snap-In Aluminum Electrolytic

## Best Value 85 °C Snap-In Type

| Cap                     | 3000 h @ 85 °C  | Max 25 °C ESR |       | Max 85 °C Ripple    |       | Nominal    |
|-------------------------|-----------------|---------------|-------|---------------------|-------|------------|
| Catalog                 |                 | (Ω)           |       | (A <sub>rms</sub> ) |       | Size (DxL) |
| (μF)                    | Part Number     | 120 Hz        | 20kHz | 120 Hz              | 20kHz | (mm)       |
| 250 Vdc (300 Vdc Surge) |                 |               |       |                     |       |            |
| 330                     | SLPX331M250A3P3 | 0.603         | 0.452 | 1.66                | 2.44  | 22 x 30    |
| 330                     | SLPX331M250C1P3 | 0.603         | 0.452 | 1.61                | 2.37  | 25 x 25    |
| 390                     | SLPX391M250A5P3 | 0.510         | 0.383 | 1.88                | 2.76  | 22 x 35    |
| 390                     | SLPX391M250C3P3 | 0.510         | 0.383 | 1.88                | 2.76  | 25 x 30    |
| 470                     | SLPX471M250A7P3 | 0.423         | 0.317 | 2.15                | 3.16  | 22 x 40    |
| 470                     | SLPX471M250C5P3 | 0.423         | 0.317 | 2.15                | 3.16  | 25 x 35    |
| 470                     | SLPX471M250E1P3 | 0.423         | 0.317 | 2.04                | 3.00  | 30 x 25    |
| 560                     | SLPX561M250A4P3 | 0.355         | 0.266 | 2.48                | 3.65  | 22 x 45    |
| 560                     | SLPX561M250C5P3 | 0.355         | 0.266 | 2.35                | 3.45  | 25 x 35    |
| 560                     | SLPX561M250E3P3 | 0.355         | 0.266 | 2.35                | 3.45  | 30 x 30    |
| 680                     | SLPX681M250C7P3 | 0.293         | 0.220 | 2.67                | 3.92  | 25 x 40    |
| 680                     | SLPX681M250E5P3 | 0.293         | 0.220 | 2.71                | 3.98  | 30 x 35    |
| 820                     | SLPX821M250C9P3 | 0.243         | 0.182 | 3.01                | 4.42  | 25 x 50    |
| 820                     | SLPX681M250E5P3 | 0.243         | 0.182 | 2.98                | 4.38  | 30 x 35    |
| 820                     | SLPX821M250H3P3 | 0.243         | 0.182 | 2.96                | 4.35  | 35 x 30    |
| 1000                    | SLPX102M250E5P3 | 0.199         | 0.149 | 3.20                | 4.70  | 30 x 35    |
| 1000                    | SLPX102M250E4P3 | 0.199         | 0.149 | 3.56                | 5.23  | 30 x 45    |
| 1000                    | SLPX102M250E9P3 | 0.199         | 0.149 | 3.73                | 5.48  | 30 x 50    |
| 1000                    | SLPX102M250H5P3 | 0.199         | 0.149 | 3.48                | 5.12  | 35 x 35    |
| 1200                    | SLPX122M250E9P3 | 0.166         | 0.125 | 3.99                | 5.87  | 30 x 50    |
| 1200                    | SLPX122M250H7P3 | 0.166         | 0.125 | 3.84                | 5.64  | 35 x 40    |
| 1500                    | SLPX152M250H4P3 | 0.133         | 0.100 | 4.33                | 6.37  | 35 x 45    |
| 1800                    | SLPX182M250H9P3 | 0.111         | 0.083 | 4.54                | 6.67  | 35 x 50    |
| 315 Vdc (365 Vdc Surge) |                 |               |       |                     |       |            |
| 180                     | SLPX181M315A3P3 | 1.106         | 0.830 | 1.29                | 1.90  | 22 x 30    |
| 180                     | SLPX181M315C1P3 | 1.106         | 0.830 | 1.38                | 2.03  | 25 x 25    |
| 220                     | SLPX221M315A5P3 | 0.905         | 0.679 | 1.41                | 2.07  | 22 x 35    |
| 220                     | SLPX221M315C3P3 | 0.905         | 0.679 | 1.47                | 2.16  | 25 x 30    |
| 270                     | SLPX271M315A7P3 | 0.737         | 0.553 | 1.70                | 2.50  | 22 x 40    |
| 270                     | SLPX271M315C3P3 | 0.737         | 0.553 | 1.70                | 2.50  | 25 x 30    |
| 330                     | SLPX331M315A4P3 | 0.603         | 0.452 | 1.91                | 2.81  | 22 x 45    |
| 330                     | SLPX331M315C5P3 | 0.603         | 0.452 | 1.94                | 2.85  | 25 x 35    |
| 330                     | SLPX331M315E3P3 | 0.603         | 0.452 | 1.98                | 2.91  | 30 x 30    |
| 390                     | SLPX391M315A9P3 | 0.510         | 0.383 | 2.07                | 3.04  | 22 x 50    |
| 390                     | SLPX391M315C7P3 | 0.510         | 0.383 | 2.11                | 3.10  | 25 x 40    |
| 390                     | SLPX391M315E3P3 | 0.510         | 0.383 | 2.15                | 3.16  | 30 x 30    |
| 470                     | SLPX471M315C4P3 | 0.423         | 0.317 | 2.39                | 3.51  | 25 x 45    |
| 470                     | SLPX471M315E5P3 | 0.423         | 0.317 | 2.38                | 3.50  | 30 x 35    |
| 470                     | SLPX471M315H3P3 | 0.423         | 0.317 | 2.36                | 3.47  | 35 x 30    |
| 560                     | SLPX561M315E7P3 | 0.355         | 0.266 | 2.63                | 3.87  | 30 x 40    |
| 560                     | SLPX561M315H5P3 | 0.355         | 0.266 | 2.69                | 3.95  | 35 x 35    |
| 680                     | SLPX681M315E4P3 | 0.293         | 0.220 | 2.80                | 4.12  | 30 x 45    |
| 680                     | SLPX681M315H7P3 | 0.293         | 0.220 | 3.05                | 4.48  | 35 x 40    |
| 820                     | SLPX821M315E9P3 | 0.243         | 0.182 | 3.28                | 4.82  | 30 x 50    |
| 820                     | SLPX821M315H4P3 | 0.243         | 0.182 | 3.45                | 5.07  | 35 x 45    |
| 315 Vdc (365 Vdc Surge) |                 |               |       |                     |       |            |
| 1000                    | SLPX102M315H9P3 | 0.199         | 0.149 | 3.57                | 4.46  | 35 x 50    |
| 350 Vdc (400 Vdc Surge) |                 |               |       |                     |       |            |
| 120                     | SLPX121M350A1P3 | 1.659         | 1.244 | 1.04                | 1.53  | 22 x 25    |
| 150                     | SLPX151M350A3P3 | 1.327         | 0.995 | 1.20                | 1.76  | 22 x 30    |
| 150                     | SLPX151M350C1P3 | 1.327         | 0.995 | 1.22                | 1.79  | 25 x 25    |
| 180                     | SLPX181M350A3P3 | 1.106         | 0.830 | 1.34                | 1.97  | 22 x 30    |
| 180                     | SLPX181M350C1P3 | 1.106         | 0.830 | 1.37                | 2.01  | 25 x 25    |
| 220                     | SLPX221M350A5P3 | 0.905         | 0.679 | 1.47                | 2.16  | 22 x 35    |
| 220                     | SLPX221M350C3P3 | 0.905         | 0.679 | 1.53                | 2.25  | 25 x 30    |
| 220                     | SLPX221M350E1P3 | 0.905         | 0.679 | 1.54                | 2.26  | 30 x 25    |
| 270                     | SLPX271M350A7P3 | 0.737         | 0.553 | 1.70                | 2.50  | 22 x 40    |
| 270                     | SLPX271M350C5P3 | 0.737         | 0.553 | 1.73                | 2.54  | 25 x 35    |
| 270                     | SLPX271M350E1P3 | 0.737         | 0.553 | 1.80                | 2.65  | 30 x 25    |
| 330                     | SLPX331M350A4P3 | 0.603         | 0.452 | 1.87                | 2.75  | 22 x 45    |
| 330                     | SLPX331M350C7P3 | 0.603         | 0.452 | 1.97                | 2.90  | 25 x 40    |
| 330                     | SLPX331M350E3P3 | 0.603         | 0.452 | 2.03                | 2.98  | 30 x 30    |
| 390                     | SLPX391M350C7P3 | 0.510         | 0.383 | 2.14                | 3.15  | 25 x 40    |
| 390                     | SLPX391M350E5P3 | 0.510         | 0.383 | 2.23                | 3.28  | 30 x 35    |
| 390                     | SLPX391M350H3P3 | 0.510         | 0.383 | 2.30                | 3.38  | 35 x 30    |
| 470                     | SLPX471M350E5P3 | 0.423         | 0.317 | 2.53                | 3.72  | 30 x 35    |
| 470                     | SLPX471M350H3P3 | 0.423         | 0.317 | 2.55                | 3.75  | 35 x 30    |
| 560                     | SLPX561M350E7P3 | 0.355         | 0.266 | 2.73                | 4.01  | 30 x 40    |
| 560                     | SLPX561M350H5P3 | 0.355         | 0.266 | 2.75                | 4.04  | 35 x 35    |
| 680                     | SLPX681M350H7P3 | 0.293         | 0.220 | 3.15                | 4.63  | 35 x 40    |
| 820                     | SLPX821M350H4P3 | 0.243         | 0.182 | 3.47                | 5.10  | 35 x 45    |
| 1000                    | SLPX102M350H9P3 | 0.199         | 0.149 | 3.60                | 5.29  | 35 x 50    |
| 385 Vdc (435 Vdc Surge) |                 |               |       |                     |       |            |
| 82                      | SLPX820M385A1P3 | 2.427         | 1.820 | 0.76                | 1.12  | 22 x 25    |
| 100                     | SLPX101M385A3P3 | 1.990         | 1.493 | 0.89                | 1.31  | 22 x 30    |
| 120                     | SLPX121M385A3P3 | 1.659         | 1.244 | 0.98                | 1.44  | 22 x 30    |
| 120                     | SLPX121M385C1P3 | 1.659         | 1.244 | 1.02                | 1.50  | 25 x 25    |
| 150                     | SLPX151M385A5P3 | 1.327         | 0.995 | 1.12                | 1.65  | 22 x 35    |
| 150                     | SLPX151M385C3P3 | 1.327         | 0.995 | 1.14                | 1.68  | 25 x 30    |
| 180                     | SLPX181M385A7P3 | 1.106         | 0.830 | 1.27                | 1.87  | 22 x 40    |
| 180                     | SLPX181M385C5P3 | 1.106         | 0.830 | 1.30                | 1.91  | 25 x 35    |
| 180                     | SLPX181M385E1P3 | 1.106         | 0.830 | 1.37                | 2.01  | 30 x 25    |
| 220                     | SLPX221M385A4P3 | 0.905         | 0.679 | 1.42                | 2.09  | 22 x 45    |
| 220                     | SLPX221M385C5P3 | 0.905         | 0.679 | 1.48                | 2.18  | 25 x 35    |
| 220                     | SLPX221M385E3P3 | 0.905         | 0.679 | 1.49                | 2.19  | 30 x 30    |
| 270                     | SLPX271M385C7P3 | 0.737         | 0.553 | 1.61                | 2.37  | 25 x 40    |
| 270                     | SLPX271M385E5P3 | 0.737         | 0.553 | 1.64                | 2.41  | 30 x 35    |
| 330                     | SLPX331M385C9P3 | 0.603         | 0.452 | 1.80                | 2.65  | 25 x 50    |
| 330                     | SLPX331M385E7P3 | 0.603         | 0.452 | 1.85                | 2.72  | 30 x 40    |
| 330                     | SLPX331M385H3P3 | 0.603         | 0.452 | 1.87                | 2.75  | 35 x 30    |
| 390                     | SLPX391M385E7P3 | 0.510         | 0.383 | 2.05                | 3.01  | 30 x 40    |

# Type SLPX 85 °C Snap-In Aluminum Electrolytic

## Best Value 85 °C Snap-In Type

| Cap<br>µF                      | Catalog<br>Part Number<br>3000 h @ 85 °C | Max ESR<br>Ω @ 25°C<br>120 Hz 20kHz | Max Ripple<br>(A <sub>rms</sub> ) max @ 85°C<br>120 Hz 20kHz | Nominal<br>Size (DxL)<br>(mm) |
|--------------------------------|------------------------------------------|-------------------------------------|--------------------------------------------------------------|-------------------------------|
| <b>385 Vdc (435 Vdc Surge)</b> |                                          |                                     |                                                              |                               |
| 390                            | SLPX391M385H5P3                          | 0.510 0.383                         | 2.07 3.04                                                    | 35 x 35                       |
| 470                            | SLPX471M385E9P3                          | 0.423 0.317                         | 2.26 3.32                                                    | 30 x 50                       |
| 470                            | SLPX471M385H7P3                          | 0.423 0.317                         | 2.26 3.32                                                    | 35 x 40                       |
| 560                            | SLPX561M385H4P3                          | 0.355 0.266                         | 2.59 3.81                                                    | 35 x 45                       |
| 680                            | SLPX681M385H9P3                          | 0.293 0.220                         | 2.80 4.12                                                    | 35 x 50                       |
| <b>400 Vdc (450 Vdc Surge)</b> |                                          |                                     |                                                              |                               |
| 82                             | SLPX820M400A1P3                          | 2.427 1.820                         | 0.84 1.23                                                    | 22 x 25                       |
| 100                            | SLPX101M400A3P3                          | 1.990 1.493                         | 0.99 1.46                                                    | 22 x 30                       |
| 120                            | SLPX121M400C1P3                          | 1.659 1.244                         | 1.13 1.66                                                    | 25 x 25                       |
| 120                            | SLPX121M400A3P3                          | 1.659 1.244                         | 1.09 1.60                                                    | 22 x 30                       |
| 150                            | SLPX151M400A5P3                          | 1.327 0.995                         | 1.24 1.82                                                    | 22 x 35                       |
| 150                            | SLPX151M400C3P3                          | 1.327 0.995                         | 1.27 1.87                                                    | 25 x 30                       |
| 180                            | SLPX181M400A7P3                          | 1.106 0.830                         | 1.41 2.07                                                    | 22 x 40                       |
| 180                            | SLPX181M400C3P3                          | 1.106 0.830                         | 1.44 2.12                                                    | 25 x 30                       |
| 180                            | SLPX181M400E1P3                          | 1.106 0.830                         | 1.52 2.23                                                    | 30 x 25                       |
| 220                            | SLPX221M400A4P3                          | 0.905 0.679                         | 1.58 2.32                                                    | 22 x 45                       |
| 220                            | SLPX221M400C3P3                          | 0.900 0.675                         | 1.54 2.26                                                    | 25 x 30                       |
| 220                            | SLPX221M400C5P3                          | 0.905 0.679                         | 1.64 2.41                                                    | 25 x 35                       |
| 220                            | SLPX221M400E3P3                          | 0.905 0.679                         | 1.66 2.44                                                    | 30 x 30                       |
| 270                            | SLPX271M400C7P3                          | 0.737 0.553                         | 1.79 2.63                                                    | 25 x 40                       |
| 270                            | SLPX271M400E3P3                          | 0.737 0.553                         | 1.82 2.68                                                    | 30 x 30                       |
| 330                            | SLPX331M400E3P3                          | 0.737 0.553                         | 1.82 2.68                                                    | 30 x 30                       |
| 330                            | SLPX331M400E3P3                          | 0.603 0.452                         | 2.05 3.01                                                    | 30 x 30                       |
| 330                            | SLPX331M400H3P3                          | 0.603 0.452                         | 2.05 3.01                                                    | 35 x 30                       |
| 330                            | SLPX331M400C4P3                          | 0.603 0.452                         | 2.00 2.94                                                    | 25 x 45                       |
| 390                            | SLPX391M400E7P3                          | 0.510 0.383                         | 2.26 3.32                                                    | 30 x 40                       |
| 390                            | SLPX391M400H5P3                          | 0.510 0.383                         | 2.28 3.35                                                    | 35 x 35                       |
| 470                            | SLPX471M400E4P3                          | 0.423 0.317                         | 2.51 3.69                                                    | 30 x 45                       |
| 470                            | SLPX471M400H7P3                          | 0.423 0.317                         | 2.54 3.73                                                    | 35 x 40                       |
| 560                            | SLPX561M400H9P3                          | 0.355 0.266                         | 3.13 4.60                                                    | 35 x 50                       |
| 560                            | SLPX561M400H7P3                          | 0.355 0.266                         | 2.85 4.19                                                    | 35 x 40                       |
| 680                            | SLPX681M400H9P3                          | 0.293 0.220                         | 3.10 3.88                                                    | 35 x 50                       |
| 820                            | SLPX821M400H9P3                          | 0.240 0.180                         | 3.40 4.25                                                    | 35 x 50                       |
| <b>420 Vdc (470 Vdc Surge)</b> |                                          |                                     |                                                              |                               |
| 82                             | SLPX820M420A1P3                          | 2.427 1.820                         | 0.85 1.25                                                    | 22 x 25                       |
| 100                            | SLPX101M420A3P3                          | 1.990 1.493                         | 0.97 1.43                                                    | 22 x 30                       |
| 100                            | SLPX101M420C1P3                          | 1.990 1.493                         | 0.98 1.44                                                    | 25 x 25                       |
| 120                            | SLPX121M420A3P3                          | 1.659 1.244                         | 1.07 1.57                                                    | 22 x 30                       |
| 120                            | SLPX121M420C1P3                          | 1.659 1.244                         | 1.08 1.59                                                    | 25 x 25                       |
| 150                            | SLPX151M420A5P3                          | 1.327 0.995                         | 1.21 1.78                                                    | 22 x 35                       |
| 150                            | SLPX151M420C3P3                          | 1.327 0.995                         | 1.26 1.85                                                    | 25 x 30                       |
| 150                            | SLPX151M420E1P3                          | 1.327 0.995                         | 1.30 1.91                                                    | 30 x 25                       |
| 180                            | SLPX181M420A7P3                          | 1.106 0.830                         | 1.33 1.96                                                    | 22 x 40                       |

| Cap<br>µF                      | Catalog<br>Part Number<br>3000 h @ 85 °C | Max ESR<br>Ω @ 25°C<br>120 Hz 20kHz | Max Ripple<br>(A <sub>rms</sub> ) max @ 85°C<br>120 Hz 20kHz | Nominal<br>Size (DxL)<br>(mm) |
|--------------------------------|------------------------------------------|-------------------------------------|--------------------------------------------------------------|-------------------------------|
| <b>420 Vdc (470 Vdc Surge)</b> |                                          |                                     |                                                              |                               |
| 180                            | SLPX181M420C5P3                          | 1.106 0.830                         | 1.42 2.09                                                    | 25 x 35                       |
| 180                            | SLPX181M420E1P3                          | 1.106 0.830                         | 1.48 2.18                                                    | 30 x 25                       |
| 220                            | SLPX221M420A4P3                          | 0.905 0.679                         | 1.55 2.28                                                    | 22 x 45                       |
| 220                            | SLPX221M420C5P3                          | 0.905 0.679                         | 1.58 2.32                                                    | 25 x 35                       |
| 220                            | SLPX221M420E3P3                          | 0.905 0.679                         | 1.65 2.43                                                    | 30 x 30                       |
| 270                            | SLPX271M420C7P3                          | 0.737 0.553                         | 1.74 2.56                                                    | 25 x 40                       |
| 270                            | SLPX271M420E5P3                          | 0.737 0.553                         | 1.90 2.79                                                    | 30 x 35                       |
| 270                            | SLPX271M420H3P3                          | 0.737 0.553                         | 1.94 2.85                                                    | 35 x 30                       |
| 330                            | SLPX331M420C9P3                          | 0.603 0.452                         | 2.20 3.23                                                    | 25 x 50                       |
| 330                            | SLPX331M420E5P3                          | 0.603 0.452                         | 1.98 2.91                                                    | 30 x 35                       |
| 330                            | SLPX331M420H5P3                          | 0.603 0.452                         | 2.17 3.19                                                    | 35 x 35                       |
| 390                            | SLPX391M420E7P3                          | 0.510 0.383                         | 2.22 3.26                                                    | 30 x 40                       |
| 390                            | SLPX391M420H5P3                          | 0.510 0.383                         | 2.27 3.34                                                    | 35 x 35                       |
| 470                            | SLPX471M420E4P3                          | 0.423 0.317                         | 2.50 3.68                                                    | 30 x 45                       |
| 470                            | SLPX471M420H7P3                          | 0.423 0.317                         | 2.61 3.84                                                    | 35 x 40                       |
| 560                            | SLPX561M420H4P3                          | 0.355 0.266                         | 2.95 4.34                                                    | 35 x 45                       |
| <b>450 Vdc (500 Vdc Surge)</b> |                                          |                                     |                                                              |                               |
| 68                             | SLPX680M450A1P3                          | 3.903 2.927                         | 0.71 1.04                                                    | 22 x 25                       |
| 82                             | SLPX820M450A1P3                          | 3.236 2.427                         | 0.86 1.26                                                    | 22 x 25                       |
| 100                            | SLPX101M450C1P3                          | 2.654 1.991                         | 0.97 1.43                                                    | 25 x 25                       |
| 120                            | SLPX121M450A3P3                          | 2.212 1.659                         | 1.00 1.47                                                    | 22 x 30                       |
| 120                            | SLPX121M450C3P3                          | 2.212 1.659                         | 1.09 1.60                                                    | 25 x 30                       |
| 120                            | SLPX121M450A3P3                          | 2.212 1.659                         | 1.00 1.47                                                    | 22 x 30                       |
| 120                            | SLPX121M450E1P3                          | 2.212 1.659                         | 1.12 1.65                                                    | 30 x 25                       |
| 150                            | SLPX151M450A7P3                          | 1.769 1.327                         | 1.18 1.73                                                    | 22 x 40                       |
| 150                            | SLPX151M450C3P3                          | 1.769 1.327                         | 1.25 1.84                                                    | 25 x 30                       |
| 150                            | SLPX151M450E1P3                          | 1.769 1.327                         | 1.29 1.90                                                    | 30 x 25                       |
| 180                            | SLPX181M450E1P3                          | 1.470 1.103                         | 1.35 1.98                                                    | 30 x 25                       |
| 180                            | SLPX181M450A4P3                          | 1.474 1.106                         | 1.32 1.94                                                    | 22 x 45                       |
| 180                            | SLPX181M450C5P3                          | 1.474 1.106                         | 1.40 2.06                                                    | 25 x 35                       |
| 180                            | SLPX181M450A1P3                          | 1.474 1.106                         | 1.45 2.13                                                    | 30 x 25                       |
| 220                            | SLPX221M450C7P3                          | 1.206 0.905                         | 1.59 2.34                                                    | 25 x 40                       |
| 220                            | SLPX221M450E3P3                          | 1.206 0.905                         | 1.64 2.41                                                    | 30 x 30                       |
| 220                            | SLPX221M450H3P3                          | 1.206 0.905                         | 1.66 2.44                                                    | 35 x 30                       |
| 270                            | SLPX271M450C4P3                          | 0.983 0.737                         | 1.73 2.54                                                    | 25 x 45                       |
| 270                            | SLPX271M450E3P3                          | 0.983 0.737                         | 1.78 2.62                                                    | 30 x 30                       |
| 270                            | SLPX271M450E5P3                          | 0.983 0.737                         | 1.89 2.78                                                    | 30 x 35                       |
| 270                            | SLPX271M450H3P3                          | 0.983 0.737                         | 1.90 2.79                                                    | 35 x 30                       |
| 330                            | SLPX331M450H5P3                          | 0.804 0.603                         | 2.15 3.16                                                    | 35 x 35                       |
| 330                            | SLPX331M450E7P3                          | 0.804 0.603                         | 2.12 3.12                                                    | 30 x 40                       |
| 390                            | SLPX391M450E4P3                          | 0.680 0.510                         | 2.35 3.45                                                    | 30 x 45                       |
| 390                            | SLPX391M450H7P3                          | 0.680 0.510                         | 2.38 3.50                                                    | 35 x 40                       |
| 470                            | SLPX471M450H9P3                          | 0.565 0.424                         | 2.80 4.12                                                    | 35 x 50                       |
| 470                            | SLPX471M450H4P3                          | 0.565 0.424                         | 2.68 3.94                                                    | 35 x 45                       |

# Type SLPX 85 °C Snap-In Aluminum Electrolytic

## Best Value 85 °C Snap-In Type

### Typical Performance Curves



Компания «Life Electronics» занимается поставками электронных компонентов импортного и отечественного производства от производителей и со складов крупных дистрибьюторов Европы, Америки и Азии.

С конца 2013 года компания активно расширяет линейку поставок компонентов по направлению коаксиальный кабель, кварцевые генераторы и конденсаторы (керамические, пленочные, электролитические), за счёт заключения дистрибьюторских договоров

Мы предлагаем:

- Конкурентоспособные цены и скидки постоянным клиентам.
- Специальные условия для постоянных клиентов.
- Подбор аналогов.
- Поставку компонентов в любых объемах, удовлетворяющих вашим потребностям.
- Приемлемые сроки поставки, возможна ускоренная поставка.
- Доставку товара в любую точку России и стран СНГ.
- Комплексную поставку.
- Работу по проектам и поставку образцов.
- Формирование склада под заказчика.
- Сертификаты соответствия на поставляемую продукцию (по желанию клиента).
- Тестирование поставляемой продукции.
- Поставку компонентов, требующих военную и космическую приемку.
- Входной контроль качества.
- Наличие сертификата ISO.

В составе нашей компании организован Конструкторский отдел, призванный помогать разработчикам, и инженерам.

Конструкторский отдел помогает осуществить:

- Регистрацию проекта у производителя компонентов.
- Техническую поддержку проекта.
- Защиту от снятия компонента с производства.
- Оценку стоимости проекта по компонентам.
- Изготовление тестовой платы монтаж и пусконаладочные работы.



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