

# Type LPX 85 °C Radial Snap-In Aluminum Electrolytic Capacitors

## High Voltage, High Value Radial Leaded Snap-In



Type LPX radial lead snap-in aluminum electrolytic capacitors are a compact design for high density packaging and are ideal for high voltage, switch mode power supply input filtering applications.

### Highlights

- High voltage
- High Capacitance
- 85 °C
- Good for input filtering in consumer applications
- 22 to 35 mm diameter with 10 mm lead spacing

### Specifications



Complies with the EU Directive 2002/95/EC requirement restricting the use of Lead (Pb), Mercury (Hg), Cadmium (Cd), Hexavalent chromium (Cr(VI)), PolyBrominated Biphenyls (PBB) and PolyBrominated Diphenyl Ethers (PBDE).

**Capacitance Range:** 56 to 2,700 µF  
**Voltage Range:** 160 to 450 Vdc  
**Tolerance:** ±20%  
**Operating Temperature Range:** -40 °C to +85 °C  
**Dissipation Factor:**

| DF at 120 Hz, +25 °C |          |           |
|----------------------|----------|-----------|
| Vdc                  | 160 -250 | 400 - 450 |
| DF (%)               | 30       | 25        |

For values that are >1000 µF, the DF (%) increases 2% for every additional 1000 µF

### DC Leakage Test:

$$I = 3\sqrt{CV}$$

C = capacitance in µF

V = rated voltage

I = leakage current in µA

### Frequency Ripple Multipliers:

| Rated<br>Vdc | Ripple Multipliers |       |              |
|--------------|--------------------|-------|--------------|
|              | 120 Hz             | 1 kHz | 10 to 50 kHz |
| 160 to 250   | 1.00               | 1.05  | 1.10         |
| 315 to 450   | 1.00               | 1.15  | 1.20         |

### Temperature Ripple Multipliers:

| Temperature | Ripple Multiplier |
|-------------|-------------------|
| +75 °C      | 1.60              |
| +65 °C      | 2.20              |
| +55 °C      | 2.60              |
| +55 °C      | 3.00              |

### Part Numbering System

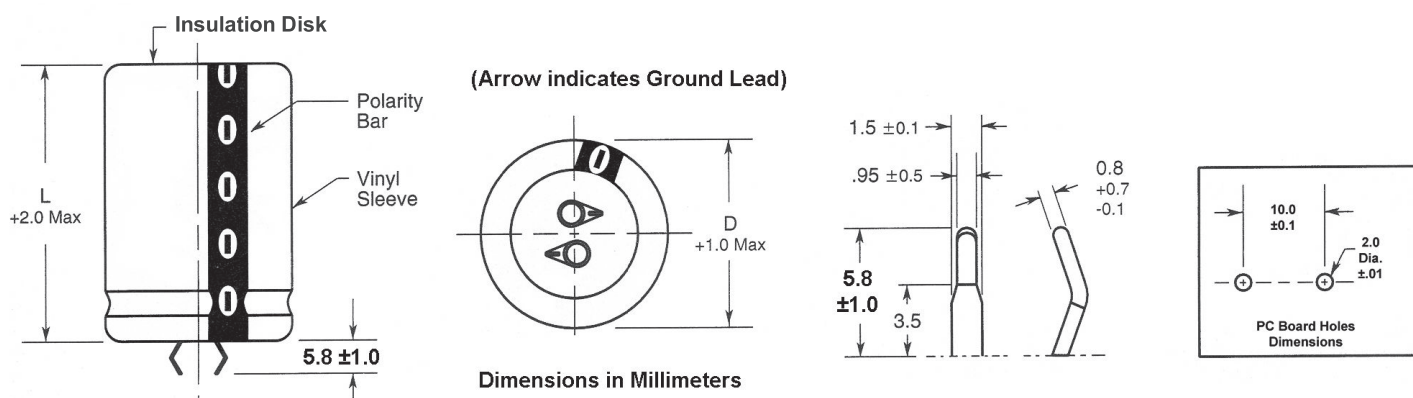
LPX      471      M      160  
|      |      |      |  
Type    Cap    Tolerance   Voltage  
|      |      |      |  
LPX    471 = 470 µF    ±20%    160 = 160  
         272 = 2,700 µF

C1      P      3  
|      |      |  
Case    Polarity    Insulating  
Code                Sleeve  
|      |      |  
P      3 = PVC

| Diameter<br>mm<br>(in.) | Length       |              |              |              |              |              |
|-------------------------|--------------|--------------|--------------|--------------|--------------|--------------|
|                         | 25<br>(1.00) | 30<br>(1.18) | 35<br>(1.38) | 40<br>(1.57) | 45<br>(1.77) | 50<br>(2.00) |
| 22 (.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           |

# Type LPX 85 °C Radial Snap-In Aluminum Electrolytic Capacitors

## Outline Drawing



## Ratings

| Cap<br>(μF)            | Catalog<br>Part Number | Max ESR<br>@ 120 Hz<br>+25 °C<br>(Ω) | Max Ripple<br>@ 120 Hz<br>+85 °C<br>(A) | Size<br>(Inches) |       | Size<br>(mm) |    |
|------------------------|------------------------|--------------------------------------|-----------------------------------------|------------------|-------|--------------|----|
|                        |                        |                                      |                                         | D                | L     | D            | L  |
| 160 Vdc; 200 Vdc Surge |                        |                                      |                                         |                  |       |              |    |
| 390                    | LPX391M160A1P3         | 0.51                                 | 1.3                                     | 0.866            | 0.984 | 22           | 25 |
| 470                    | LPX471M160C1P3         | 0.423                                | 1.6                                     | 0.984            | 0.984 | 25           | 25 |
| 470                    | LPX471M160A3P3         | 0.423                                | 1.6                                     | 0.866            | 1.181 | 22           | 30 |
| 560                    | LPX561M160C3P3         | 0.355                                | 1.8                                     | 0.984            | 1.181 | 25           | 30 |
| 560                    | LPX561M160A5P3         | 0.355                                | 1.8                                     | 0.866            | 1.378 | 22           | 35 |
| 680                    | LPX681M160E1P3         | 0.293                                | 2.0                                     | 1.181            | 0.984 | 30           | 25 |
| 680                    | LPX681M160A7P3         | 0.293                                | 2.1                                     | 0.866            | 1.575 | 22           | 40 |
| 680                    | LPX681M160C3P3         | 0.293                                | 2.0                                     | 0.984            | 1.181 | 25           | 30 |
| 820                    | LPX821M160C5P3         | 0.243                                | 2.0                                     | 0.984            | 1.378 | 25           | 35 |
| 820                    | LPX821M160E3P3         | 0.243                                | 2.3                                     | 1.181            | 1.181 | 30           | 30 |
| 820                    | LPX821M160A4P3         | 0.243                                | 2.4                                     | 0.866            | 1.772 | 22           | 45 |
| 1,000                  | LPX102M160C7P3         | 0.199                                | 2.6                                     | 0.984            | 1.575 | 25           | 40 |
| 1,000                  | LPX102M160H1P3         | 0.199                                | 2.3                                     | 1.378            | 0.984 | 35           | 25 |
| 1,000                  | LPX102M160E3P3         | 0.199                                | 2.5                                     | 1.181            | 1.181 | 30           | 30 |
| 1,200                  | LPX122M160C4P3         | 0.166                                | 3.0                                     | 0.984            | 1.772 | 25           | 45 |
| 1,200                  | LPX122M160H3P3         | 0.166                                | 2.6                                     | 1.378            | 1.181 | 35           | 30 |
| 1,200                  | LPX122M160E5P3         | 0.166                                | 2.9                                     | 1.181            | 1.378 | 30           | 35 |
| 1,500                  | LPX152M160H5P3         | 0.133                                | 3.3                                     | 1.378            | 1.378 | 35           | 35 |
| 1,500                  | LPX152M160E7P3         | 0.133                                | 3.3                                     | 1.181            | 1.575 | 30           | 40 |
| 1,800                  | LPX182M160E9P3         | 0.111                                | 4.0                                     | 1.181            | 1.969 | 30           | 50 |
| 1,800                  | LPX182M160H7P3         | 0.111                                | 3.7                                     | 1.378            | 1.575 | 35           | 40 |
| 2,200                  | LPX222M160H4P3         | 0.090                                | 4.2                                     | 1.378            | 1.772 | 35           | 45 |
| 2,700                  | LPX272M160H9P3         | 0.074                                | 4.6                                     | 1.378            | 1.969 | 35           | 50 |
| 200 Vdc; 250 Vdc Surge |                        |                                      |                                         |                  |       |              |    |
| 270                    | LPX271M200A1P3         | 0.737                                | 1.2                                     | 0.866            | 0.984 | 22           | 25 |
| 390                    | LPX391M200C1P3         | 0.510                                | 1.6                                     | 0.984            | 0.984 | 25           | 25 |
| 390                    | LPX391M200A3P3         | 0.510                                | 1.6                                     | 0.866            | 1.181 | 22           | 30 |
| 470                    | LPX471M200C3P3         | 0.423                                | 1.8                                     | 0.984            | 1.181 | 25           | 30 |
| 470                    | LPX471M200A5P3         | 0.423                                | 1.8                                     | 0.866            | 1.378 | 22           | 35 |
| 560                    | LPX561M200A7P3         | 0.355                                | 2.1                                     | 0.866            | 1.575 | 22           | 40 |
| 560                    | LPX561M200C5P3         | 0.355                                | 2.1                                     | 0.984            | 1.378 | 25           | 35 |
| 560                    | LPX561M200E1P3         | 0.355                                | 1.9                                     | 1.181            | 0.984 | 30           | 25 |

| Cap<br>(μF)            | Catalog<br>Part Number | Max ESR<br>@ 120 Hz<br>+25 °C<br>(Ω) | Max Ripple<br>@ 120 Hz<br>+85 °C<br>(A) | Size<br>(Inches) |       | Size<br>(mm) |    |
|------------------------|------------------------|--------------------------------------|-----------------------------------------|------------------|-------|--------------|----|
|                        |                        |                                      |                                         | D                | L     | D            | L  |
| 200 Vdc; 250 Vdc Surge |                        |                                      |                                         |                  |       |              |    |
| 680                    | LPX681M200C7P3         | 0.293                                | 2.5                                     | 0.984            | 1.575 | 25           | 40 |
| 680                    | LPX681M200A4P3         | 0.293                                | 2.4                                     | 0.866            | 1.772 | 22           | 45 |
| 680                    | LPX681M200E3P3         | 0.293                                | 2.3                                     | 1.181            | 1.181 | 30           | 30 |
| 820                    | LPX821M200E5P3         | 0.243                                | 2.7                                     | 1.181            | 1.378 | 30           | 35 |
| 820                    | LPX821M200H3P3         | 0.243                                | 2.7                                     | 1.378            | 1.181 | 35           | 30 |
| 820                    | LPX821M200C4P3         | 0.243                                | 2.8                                     | 0.984            | 1.772 | 25           | 45 |
| 1,000                  | LPX102M200H3P3         | 0.199                                | 2.7                                     | 1.378            | 1.181 | 35           | 30 |
| 1,000                  | LPX102M200E7P3         | 0.199                                | 3.1                                     | 1.181            | 1.575 | 30           | 40 |
| 1,200                  | LPX122M200H5P3         | 0.166                                | 3.1                                     | 1.378            | 1.378 | 35           | 35 |
| 1,200                  | LPX122M200E4P3         | 0.166                                | 3.5                                     | 1.181            | 1.772 | 30           | 45 |
| 1,500                  | LPX152M200E9P3         | 0.133                                | 4                                       | 1.181            | 1.969 | 30           | 50 |
| 1,500                  | LPX152M200H7P3         | 0.133                                | 3.6                                     | 1.378            | 1.575 | 35           | 40 |
| 1,800                  | LPX182M200H4P3         | 0.111                                | 4                                       | 1.378            | 1.772 | 35           | 45 |
| 2,200                  | LPX222M200H9P3         | 0.09                                 | 4.5                                     | 1.378            | 1.969 | 35           | 50 |
| 250 Vdc; 300 Vdc Surge |                        |                                      |                                         |                  |       |              |    |
| 270                    | LPX271M250A3P3         | 0.737                                | 1.4                                     | 0.866            | 1.181 | 22           | 30 |
| 270                    | LPX271M250C1P3         | 0.737                                | 1.4                                     | 0.984            | 0.984 | 25           | 25 |
| 330                    | LPX331M250C3P3         | 0.603                                | 1.7                                     | 0.984            | 1.181 | 25           | 30 |
| 330                    | LPX331M250A5P3         | 0.603                                | 1.7                                     | 0.866            | 1.378 | 22           | 35 |
| 390                    | LPX391M250E1P3         | 0.51                                 | 1.8                                     | 1.181            | 0.984 | 30           | 25 |
| 390                    | LPX391M250A7P3         | 0.51                                 | 1.9                                     | 0.866            | 1.575 | 22           | 40 |
| 390                    | LPX391M250C3P3         | 0.51                                 | 1.8                                     | 0.984            | 1.181 | 25           | 30 |
| 470                    | LPX471M250A4P3         | 0.423                                | 2.2                                     | 0.866            | 1.772 | 22           | 45 |
| 470                    | LPX471M250C5P3         | 0.423                                | 2.1                                     | 0.984            | 1.378 | 25           | 35 |
| 470                    | LPX471M250E3P3         | 0.423                                | 2.1                                     | 1.181            | 1.181 | 30           | 30 |
| 560                    | LPX561M250A9P3         | 0.355                                | 2.5                                     | 0.866            | 1.969 | 22           | 50 |
| 560                    | LPX561M250H1P3         | 0.355                                | 2.1                                     | 1.378            | 0.984 | 35           | 25 |
| 560                    | LPX561M250E3P3         | 0.355                                | 2.2                                     | 1.181            | 1.181 | 30           | 30 |
| 560                    | LPX561M250C7P3         | 0.355                                | 2.4                                     | 0.984            | 1.575 | 25           | 40 |
| 680                    | LPX681M250H3P3         | 0.293                                | 2.5                                     | 1.378            | 1.181 | 35           | 30 |
| 680                    | LPX681M250C4P3         | 0.293                                | 2.7                                     | 0.984            | 1.772 | 25           | 45 |
| 680                    | LPX681M250E5P3         | 0.293                                | 2.6                                     | 1.181            | 1.378 | 30           | 35 |

# Type LPX 85 °C Radial Snap-In Aluminum Electrolytic Capacitors

| Cap<br>(μF)            | Catalog<br>Part Number | Max ESR<br>@ 120 Hz<br>+25 °C<br>(Ω) | Max Ripple<br>@ 120 Hz<br>+85 °C<br>(A) | Size<br>(Inches) |       | Size<br>(mm) |    |
|------------------------|------------------------|--------------------------------------|-----------------------------------------|------------------|-------|--------------|----|
|                        |                        |                                      |                                         | D                | L     | D            | L  |
| 250 Vdc; 300 Vdc Surge |                        |                                      |                                         |                  |       |              |    |
| 820                    | LPX821M250H5P3         | 0.243                                | 3.0                                     | 1.378            | 1.378 | 35           | 35 |
| 820                    | LPX821M250E7P3         | 0.243                                | 3.0                                     | 1.181            | 1.575 | 30           | 40 |
| 1,000                  | LPX102M250H7P3         | 0.199                                | 3.4                                     | 1.378            | 1.575 | 35           | 40 |
| 1,000                  | LPX102M250E4P3         | 0.199                                | 3.4                                     | 1.181            | 1.772 | 30           | 45 |
| 1,200                  | LPX122M250H4P3         | 0.166                                | 3.8                                     | 1.378            | 1.772 | 35           | 45 |
| 1,500                  | LPX152M250H9P3         | 0.133                                | 4.2                                     | 1.378            | 1.969 | 35           | 50 |
| 350 Vdc; 400 Vdc Surge |                        |                                      |                                         |                  |       |              |    |
| 100                    | LPX101M350A1P3         | 1.989                                | 0.6                                     | 0.866            | 0.984 | 22           | 25 |
| 120                    | LPX121M350C1P3         | 1.658                                | 0.7                                     | 0.984            | 0.984 | 25           | 25 |
| 120                    | LPX121M350A3P3         | 1.658                                | 0.7                                     | 0.866            | 1.181 | 22           | 30 |
| 150                    | LPX151M350C3P3         | 1.326                                | 0.8                                     | 0.984            | 1.181 | 25           | 30 |
| 150                    | LPX151M350A5P3         | 1.326                                | 0.8                                     | 0.866            | 1.378 | 22           | 35 |
| 180                    | LPX181M350A7P3         | 1.105                                | 0.9                                     | 0.866            | 1.575 | 22           | 40 |
| 180                    | LPX181M350C3P3         | 1.105                                | 0.9                                     | 0.984            | 1.181 | 25           | 30 |
| 180                    | LPX181M350E1P3         | 1.105                                | 1.0                                     | 1.181            | 0.984 | 30           | 25 |
| 220                    | LPX221M350A4P3         | 0.904                                | 1.1                                     | 0.866            | 1.772 | 22           | 45 |
| 220                    | LPX221M350E3P3         | 0.904                                | 1.1                                     | 1.181            | 1.181 | 30           | 30 |
| 220                    | LPX221M350C5P3         | 0.904                                | 1.1                                     | 0.984            | 1.378 | 25           | 35 |
| 270                    | LPX271M350E3P3         | 0.737                                | 1.2                                     | 1.181            | 1.181 | 30           | 30 |
| 270                    | LPX271M350C7P3         | 0.737                                | 1.2                                     | 0.984            | 1.575 | 25           | 40 |
| 270                    | LPX271M350A9P3         | 0.737                                | 1.3                                     | 0.866            | 1.969 | 22           | 50 |
| 270                    | LPX271M350H1P3         | 0.737                                | 1.3                                     | 1.378            | 0.984 | 35           | 25 |
| 330                    | LPX331M350C4P3         | 0.603                                | 1.4                                     | 0.984            | 1.772 | 25           | 45 |
| 330                    | LPX331M350H3P3         | 0.603                                | 1.4                                     | 1.378            | 1.181 | 35           | 30 |
| 330                    | LPX331M350E5P3         | 0.603                                | 1.4                                     | 1.181            | 1.378 | 30           | 35 |
| 390                    | LPX391M350H3P3         | 0.51                                 | 1.6                                     | 1.378            | 1.181 | 35           | 30 |
| 390                    | LPX391M350E7P3         | 0.51                                 | 1.8                                     | 1.181            | 1.575 | 30           | 40 |
| 470                    | LPX471M350H5P3         | 0.423                                | 1.8                                     | 1.378            | 1.378 | 35           | 35 |
| 470                    | LPX471M350E4P3         | 0.423                                | 1.9                                     | 1.181            | 1.772 | 30           | 45 |
| 560                    | LPX561M350H7P3         | 0.355                                | 2.1                                     | 1.378            | 1.575 | 35           | 40 |
| 680                    | LPX681M350H4P3         | 0.293                                | 2.4                                     | 1.378            | 1.772 | 35           | 45 |
| 400 Vdc; 450 Vdc Surge |                        |                                      |                                         |                  |       |              |    |
| 82                     | LPX820M400A1P3         | 2.426                                | 0.6                                     | 0.866            | 0.984 | 22           | 25 |
| 100                    | LPX101M400A3P3         | 1.989                                | 0.7                                     | 0.866            | 1.181 | 22           | 30 |
| 120                    | LPX121M400A3P3         | 1.658                                | 0.7                                     | 0.866            | 1.181 | 22           | 30 |
| 120                    | LPX121M400C1P3         | 1.658                                | 0.7                                     | 0.984            | 0.984 | 25           | 25 |
| 150                    | LPX151M400C3P3         | 1.326                                | 0.9                                     | 0.984            | 1.181 | 25           | 30 |
| 180                    | LPX181M400A7P3         | 1.105                                | 1.0                                     | 0.866            | 1.575 | 22           | 40 |

| Cap<br>(μF)            | Catalog<br>Part Number | Max ESR<br>@ 120 Hz<br>+25 °C | Max Ripple<br>@ 120 Hz<br>+85 °C | Size<br>(Inches) |       | Size<br>(mm) |    |
|------------------------|------------------------|-------------------------------|----------------------------------|------------------|-------|--------------|----|
|                        |                        | (Ω)                           | (A)                              | D                | L     | D            | L  |
| 400 Vdc; 450 Vdc Surge |                        |                               |                                  |                  |       |              |    |
| 180                    | LPX181M400C5P3         | 1.105                         | 1.0                              | 0.984            | 1.378 | 25           | 35 |
| 220                    | LPX221M400E3P3         | 0.904                         | 1.2                              | 1.181            | 1.181 | 30           | 30 |
| 220                    | LPX221M400H1P3         | 0.904                         | 1.2                              | 1.378            | 0.984 | 35           | 25 |
| 220                    | LPX221M400C7P3         | 0.904                         | 1.2                              | 0.984            | 1.575 | 25           | 40 |
| 270                    | LPX271M400C4P3         | 0.737                         | 1.4                              | 0.984            | 1.772 | 25           | 45 |
| 270                    | LPX271M400E5P3         | 0.737                         | 1.4                              | 1.181            | 1.378 | 30           | 35 |
| 270                    | LPX271M400H3P3         | 0.737                         | 1.4                              | 1.378            | 1.181 | 35           | 30 |
| 330                    | LPX331M400E7P3         | 0.603                         | 1.6                              | 1.181            | 1.575 | 30           | 40 |
| 330                    | LPX331M400H3P3         | 0.603                         | 1.5                              | 1.378            | 1.181 | 35           | 30 |
| 390                    | LPX391M400H5P3         | 0.510                         | 1.8                              | 1.378            | 1.378 | 35           | 35 |
| 390                    | LPX391M400E4P3         | 0.510                         | 1.8                              | 1.181            | 1.772 | 30           | 45 |
| 470                    | LPX471M400H7P3         | 0.423                         | 2.0                              | 1.378            | 1.575 | 35           | 40 |
| 470                    | LPX471M400E9P3         | 0.423                         | 2.0                              | 1.181            | 1.969 | 30           | 50 |
| 560                    | LPX561M400H4P3         | 0.355                         | 2.3                              | 1.378            | 1.772 | 35           | 45 |
| 680                    | LPX681M400H9P3         | 0.293                         | 2.6                              | 1.378            | 1.969 | 35           | 50 |
| 450 Vdc; 500 Vdc Surge |                        |                               |                                  |                  |       |              |    |
| 56                     | LPX560M450A1P3         | 3.553                         | 0.5                              | 0.866            | 0.984 | 22           | 25 |
| 68                     | LPX680M450A3P3         | 2.926                         | 0.6                              | 0.866            | 1.181 | 22           | 30 |
| 82                     | LPX820M450C1P3         | 2.426                         | 0.7                              | 0.984            | 0.984 | 25           | 25 |
| 82                     | LPX820M450A3P3         | 2.426                         | 0.7                              | 0.866            | 1.181 | 22           | 30 |
| 100                    | LPX101M450C3P3         | 1.989                         | 0.8                              | 0.984            | 1.181 | 25           | 30 |
| 100                    | LPX101M450A5P3         | 1.989                         | 0.8                              | 0.866            | 1.378 | 22           | 35 |
| 120                    | LPX121M450E1P3         | 1.658                         | 0.9                              | 1.181            | 0.984 | 30           | 25 |
| 120                    | LPX121M450C5P3         | 1.658                         | 1.0                              | 0.984            | 1.378 | 25           | 35 |
| 120                    | LPX121M450A7P3         | 1.658                         | 0.9                              | 0.866            | 1.575 | 22           | 40 |
| 150                    | LPX151M450A9P3         | 1.326                         | 1.1                              | 0.866            | 1.969 | 22           | 50 |
| 150                    | LPX151M450E3P3         | 1.326                         | 1.1                              | 1.181            | 1.181 | 30           | 30 |
| 150                    | LPX151M450C7P3         | 1.326                         | 1.1                              | 0.984            | 1.575 | 25           | 40 |
| 180                    | LPX181M450C4P3         | 1.105                         | 1.3                              | 0.984            | 1.772 | 25           | 45 |
| 180                    | LPX181M450H1P3         | 1.105                         | 1.2                              | 1.378            | 0.984 | 35           | 25 |
| 180                    | LPX181M450E7P3         | 1.105                         | 1.4                              | 1.181            | 1.575 | 30           | 40 |
| 220                    | LPX221M450H3P3         | 0.904                         | 1.5                              | 1.378            | 1.181 | 35           | 30 |
| 220                    | LPX221M450C9P3         | 0.904                         | 1.5                              | 0.984            | 1.969 | 25           | 50 |
| 220                    | LPX221M450E7P3         | 0.904                         | 1.6                              | 1.181            | 1.575 | 30           | 40 |
| 270                    | LPX271M450E4P3         | 0.737                         | 1.7                              | 1.181            | 1.772 | 30           | 45 |
| 270                    | LPX271M450H5P3         | 0.737                         | 1.7                              | 1.378            | 1.378 | 35           | 35 |
| 330                    | LPX331M450H7P3         | 0.603                         | 2.0                              | 1.378            | 1.575 | 35           | 40 |
| 330                    | LPX331M450E9P3         | 0.603                         | 2.0                              | 1.181            | 1.969 | 30           | 50 |
| 390                    | LPX391M450H4P3         | 0.510                         | 2.2                              | 1.378            | 1.772 | 35           | 45 |
| 470                    | LPX471M450H9P3         | 0.423                         | 2.5                              | 1.378            | 1.969 | 35           | 50 |



**Стандарт  
Электрон  
Связь**

Мы молодая и активно развивающаяся компания в области поставок электронных компонентов. Мы поставляем электронные компоненты отечественного и импортного производства напрямую от производителей и с крупнейших складов мира.

Благодаря сотрудничеству с мировыми поставщиками мы осуществляем комплексные и плановые поставки широчайшего спектра электронных компонентов.

Собственная эффективная логистика и склад в обеспечивает надежную поставку продукции в точно указанные сроки по всей России.

Мы осуществляем техническую поддержку нашим клиентам и предпродажную проверку качества продукции. На все поставляемые продукты мы предоставляем гарантию .

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