

# LELON SMD Aluminum Electrolytic Capacitors



This product is RoHS compliant.

## VEJ 105°C SMD SERIES

### Features:

- Designed for surface mounting on a high density PC board
- Applicable for auto insertion machines
- RoHS Compliant

### Specifications:

- Operating temperature range: -55°C to +105°C
- Voltage range: 6.3V ~ 450V
- Capacitance tolerance: ±20% @120Hz, 20°C
- Endurance: 2,000 hours @ 105°C

### Application Note:

- A higher voltage capacitor may be used in a lower voltage application
- Parts available on reels

RoHS Compliant

**Figure 1** (9A series):  $\phi D \leq 6.3\text{mm}$ . Dimensions:  $\phi D \pm 0.5$ ,  $L$ ,  $0.3\text{ Max}$ ,  $B \pm 0.2$ ,  $A \pm 0.2$ ,  $0.4 \pm 0.2$ ,  $C \pm 0.2$ ,  $P$ ,  $C \pm 0.2$ .

**Figure 2** (9D series):  $\phi D \geq 12.5\text{mm}$ . Dimensions:  $\phi D \pm 0.5$ ,  $L$ ,  $0.4\text{ Max}$ ,  $B \pm 0.2$ ,  $A \pm 0.2$ ,  $1.0\text{ Max}$ ,  $C \pm 0.2$ ,  $P$ ,  $C \pm 0.2$ .

| DIMENSIONS: mm |          |      |      |     |           |             |          |  |  |
|----------------|----------|------|------|-----|-----------|-------------|----------|--|--|
| $\phi D$       | L        | A    | B    | C   | W         | $P \pm 0.2$ | Fig. No. |  |  |
| 4              | 5.7±0.3  | 4.3  | 4.3  | 2.0 | 0.5 ~ 0.8 | 1.0         | 1        |  |  |
| 5              | 5.7±0.3  | 5.3  | 5.3  | 2.3 | 0.5 ~ 0.8 | 1.5         | 1        |  |  |
| 6.3            | 5.7±0.3  | 6.6  | 6.6  | 2.7 | 0.5 ~ 0.8 | 2.0         | 1        |  |  |
| 6.3            | 7.7±0.3  | 6.6  | 6.6  | 2.7 | 0.5 ~ 0.8 | 2.0         | 1        |  |  |
| 8              | 10±0.5   | 8.4  | 8.4  | 3.0 | 0.7 ~ 1.1 | 3.1         | 1        |  |  |
| 10             | 10±0.5   | 10.4 | 10.4 | 3.3 | 0.7 ~ 1.1 | 4.7         | 1        |  |  |
| 10             | 10.3±0.5 | 10.4 | 10.4 | 3.3 | 0.7 ~ 1.1 | 4.7         | 1        |  |  |
| 12.5           | 13.5±0.5 | 13.0 | 13.0 | 4.8 | 1.1 ~ 1.4 | 4.4         | 2        |  |  |
| 12.5           | 16±0.5   | 13.0 | 13.0 | 4.8 | 1.1 ~ 1.4 | 4.4         | 2        |  |  |
| 16             | 16.5±0.5 | 17.0 | 17.0 | 5.8 | 1.1 ~ 1.4 | 6.4         | 2        |  |  |
| 18             | 16.5±0.5 | 19.0 | 19.0 | 6.8 | 1.1 ~ 1.4 | 6.4         | 2        |  |  |

Lelon Aluminum Caps, SMD

For quantities greater than listed, call for quote.

| MOUSER STOCK NO.    | Nichicon Part No. | Value (µF) | Case Size D x L (mm) | Ripple (mA) | Price Each |      |      |
|---------------------|-------------------|------------|----------------------|-------------|------------|------|------|
|                     |                   |            |                      |             | 1          | 100  | 500  |
| <b>6.3 Volts</b>    |                   |            |                      |             |            |      |      |
| 140-VEJ220M0JTR0406 | VEJ-220M0JTR-0406 | 22         | 4 x 5.7              | 22          | .16        | .112 | .087 |
| 140-VEJ330M0JTR0506 | VEJ-330M0JTR-0506 | 33         | 5 x 5.7              | 34          | .18        | .125 | .10  |
| 140-VEJ470M0JTR0506 | VEJ-470M0JTR-0506 | 47         | 5 x 5.7              | 38          | .18        | .124 | .099 |
| 140-VEJ101M0JTR0606 | VEJ-101M0JTR-0606 | 100        | 6.3 x 5.7            | 69          | .21        | .137 | .125 |
| 140-VEJ221M0JTR0607 | VEJ-221M0JTR-0607 | 220        | 6.3 x 7.7            | 120         | .23        | .162 | .137 |
| 140-VEJ331M0JTR0810 | VEJ-331M0JTR-0810 | 330        | 8 x 10               | 290         | .41        | .275 | .237 |
| 140-VEJ471M0JTR0810 | VEJ-471M0JTR-0810 | 470        | 8 x 10               | 320         | .53        | .362 | .312 |
| 140-VEJ102M0JTR1010 | VEJ-102M0JTR-1010 | 1000       | 10 x 10              | 410         | .55        | .362 | .312 |
| 140-VEJ222M0JTR1313 | VEJ-222M0JTR-1313 | 2200       | 12.5 x 13.5          | 680         | 1.12       | .75  | .65  |
| 140-VEJ332M0JTR1316 | VEJ-332M0JTR-1316 | 3300       | 12.5 x 16            | 850         | 1.50       | 1.00 | .862 |
| 140-VEJ472M0JTR1616 | VEJ-472M0JTR-1616 | 4700       | 16 x 16.5            | 1000        | 1.91       | 1.27 | 1.10 |
| 140-VEJ682M0JTR1816 | VEJ-682M0JTR-1816 | 6800       | 18 x 16.5            | 1290        | 3.00       | 2.00 | 1.72 |
| <b>10 Volts</b>     |                   |            |                      |             |            |      |      |
| 140-VEJ220M1ATR0406 | VEJ-220M1ATR-0406 | 22         | 4 x 5.7              | 22          | .26        | .175 | .125 |
| 140-VEJ330M1ATR0506 | VEJ-330M1ATR-0506 | 33         | 5 x 5.7              | 34          | .26        | .175 | .125 |
| 140-VEJ470M1ATR0506 | VEJ-470M1ATR-0506 | 47         | 5 x 5.7              | 38          | .28        | .20  | .137 |
| 140-VEJ101M1ATR0606 | VEJ-101M1ATR-0606 | 100        | 6.3 x 5.7            | 69          | .31        | .212 | .15  |
| 140-VEJ221M1ATR0607 | VEJ-221M1ATR-0607 | 220        | 6.3 x 7.7            | 120         | .30        | .20  | .15  |
| 140-VEJ331M1ATR0810 | VEJ-331M1ATR-0810 | 330        | 8 x 10               | 290         | .80        | .537 | .387 |
| 140-VEJ471M1ATR0810 | VEJ-471M1ATR-0810 | 470        | 8 x 10               | 320         | .80        | .537 | .387 |
| 140-VEJ102M1ATR1010 | VEJ-102M1ATR-1010 | 1000       | 10 x 10.3            | 410         | .80        | .537 | .387 |
| 140-VEJ222M1ATR1313 | VEJ-222M1ATR-1313 | 2200       | 12.5 x 13.5          | 680         | 1.77       | 1.21 | .862 |
| 140-VEJ332M1ATR1616 | VEJ-332M1ATR-1616 | 3300       | 16 x 16.5            | 950         | 2.63       | 1.79 | 1.27 |
| 140-VEJ472M1ATR1616 | VEJ-472M1ATR-1616 | 4700       | 16 x 16.5            | 1000        | 2.98       | 2.03 | 1.43 |
| <b>16 Volts</b>     |                   |            |                      |             |            |      |      |
| 140-VEJ100M1CTR0406 | VEJ-100M1CTR-0406 | 10         | 4 x 5.7              | 20          | .16        | .112 | .087 |
| 140-VEJ220M1CTR0506 | VEJ-220M1CTR-0506 | 22         | 5 x 5.7              | 30          | .18        | .125 | .10  |
| 140-VEJ330M1CTR0506 | VEJ-330M1CTR-0506 | 33         | 5 x 5.7              | 34          | .20        | .125 | .10  |
| 140-VEJ470M1CTR0606 | VEJ-470M1CTR-0606 | 47         | 6.3 x 5.7            | 48          | .21        | .137 | .112 |
| 140-VEJ101M1CTR0606 | VEJ-101M1CTR-0606 | 100        | 6.3 x 5.7            | 69          | .22        | .15  | .112 |
| 140-VEJ221M1CTR0607 | VEJ-221M1CTR-0607 | 220        | 6.3 x 7.7            | 120         | .26        | .175 | .137 |
| 140-VEJ331M1CTR0810 | VEJ-331M1CTR-0810 | 330        | 8 x 10               | 290         | .45        | .287 | .225 |
| 140-VEJ471M1CTR1010 | VEJ-471M1CTR-1010 | 470        | 10 x 10              | 380         | .58        | .387 | .299 |
| 140-VEJ102M1CTR1313 | VEJ-102M1CTR-1313 | 1000       | 12.5 x 13.5          | 510         | .61        | .40  | .312 |
| 140-VEJ222M1CTR1616 | VEJ-222M1CTR-1616 | 2200       | 16 x 16.5            | 900         | 1.93       | 1.26 | .975 |
| 140-VEJ332M1CTR1616 | VEJ-332M1CTR-1616 | 3300       | 16 x 16.5            | 950         | 2.25       | 1.46 | 1.13 |
| <b>25 Volts</b>     |                   |            |                      |             |            |      |      |
| 140-VEJ47M1ETR0406  | VEJ-47M1ETR-0406  | 4.7        | 4 x 5.7              | 17          | .16        | .112 | .087 |
| 140-VEJ100M1ETR0406 | VEJ-100M1ETR-0406 | 10         | 4 x 5.7              | 20          | .17        | .112 | .087 |
| 140-VEJ220M1ETR0506 | VEJ-220M1ETR-0506 | 22         | 5 x 5.7              | 30          | .20        | .125 | .10  |
| 140-VEJ330M1ETR0606 | VEJ-330M1ETR-0606 | 33         | 6.3 x 5.7            | 46          | .21        | .137 | .112 |
| 140-VEJ470M1ETR0606 | VEJ-470M1ETR-0606 | 47         | 6.3 x 5.7            | 48          | .21        | .137 | .112 |
| 140-VEJ101M1ETR0607 | VEJ-101M1ETR-0607 | 100        | 6.3 x 7.7            | 100         | .23        | .15  | .112 |
| 140-VEJ221M1ETR0810 | VEJ-221M1ETR-0810 | 220        | 8 x 10               | 270         | .46        | .30  | .237 |
| 140-VEJ331M1ETR0810 | VEJ-331M1ETR-0810 | 330        | 8 x 10               | 290         | .48        | .312 | .25  |
| 140-VEJ471M1ETR1010 | VEJ-471M1ETR-1010 | 470        | 10 x 10              | 380         | .60        | .387 | .30  |
| 140-VEJ102M1ETR1316 | VEJ-102M1ETR-1316 | 1000       | 12.5 x 16            | 550         | 1.52       | .987 | .775 |
| 140-VEJ222M1ETR1616 | VEJ-222M1ETR-1616 | 2200       | 16 x 16.5            | 900         | 2.63       | 1.71 | 1.33 |
| <b>35 Volts</b>     |                   |            |                      |             |            |      |      |
| 140-VEJ47M2VTR0406  | VEJ-47M2VTR-0406  | 4.7        | 4 x 5.7              | 17          | .16        | .112 | .087 |
| 140-VEJ100M2VTR0506 | VEJ-100M2VTR-0506 | 10         | 5 x 5.7              | 27          | .90        | .66  | .545 |
| 140-VEJ220M2VTR0606 | VEJ-220M2VTR-0606 | 22         | 6.3 x 5.7            | 44          | .21        | .137 | .112 |
| 140-VEJ330M2VTR0606 | VEJ-330M2VTR-0606 | 33         | 6.3 x 5.7            | 46          | .25        | .162 | .125 |
| 140-VEJ470M2VTR0607 | VEJ-470M2VTR-0607 | 47         | 6.3 x 7.7            | 80          | .25        | .162 | .125 |
| 140-VEJ101M2VTR0810 | VEJ-101M2VTR-0810 | 100        | 8 x 10               | 240         | .41        | .275 | .212 |
| 140-VEJ221M2VTR0810 | VEJ-221M2VTR-0810 | 220        | 8 x 10               | 270         | .50        | .325 | .25  |
| 140-VEJ331M2VTR1010 | VEJ-331M2VTR-1010 | 330        | 10 x 10              | 370         | .69        | .462 | .362 |
| 140-VEJ471M2VTR1313 | VEJ-471M2VTR-1313 | 470        | 12.5 x 13.5          | 520         | 1.29       | .837 | .649 |
| 140-VEJ102M2VTR1616 | VEJ-102M2VTR-1616 | 1000       | 16 x 16.5            | 800         | 2.12       | 1.37 | 1.07 |

For quantities greater than listed, call for quote.

| MOUSER STOCK NO.    | Nichicon Part No. | Value (µF) | Case Size D x L (mm) | Ripple (mA) | Price Each |      |      |
|---------------------|-------------------|------------|----------------------|-------------|------------|------|------|
|                     |                   |            |                      |             | 1          | 100  | 500  |
| <b>50 Volts</b>     |                   |            |                      |             |            |      |      |
| 140-VEJR22M1HTR0406 | VEJ-R22M1HTR-0406 | 0.22       | 4 x 5.7              | 3           | .16        | .112 | .087 |
| 140-VEJR33M1HTR0406 | VEJ-R33M1HTR-0406 | 0.33       | 4 x 5.7              | 4           | .16        | .112 | .087 |
| 140-VEJR47M1HTR0406 | VEJ-R47M1HTR-0406 | 0.47       | 4 x 5.7              | 5           | .16        | .112 | .087 |
| 140-VEJ010M1HTR0406 | VEJ-010M1HTR-0406 | 1          | 4 x 5.7              | 8           | .16        | .112 | .087 |
| 140-VEJ2R2M1HTR0406 | VEJ-2R2M1HTR-0406 | 2.2        | 4 x 5.7              | 12          | .16        | .112 | .087 |
| 140-VEJ3R3M1HTR0406 | VEJ-3R3M1HTR-0406 | 3.3        | 4 x 5.7              | 14          | .16        | .112 | .087 |
| 140-VEJ4R7M1HTR0506 | VEJ-4R7M1HTR-0506 | 4.7        | 5 x 5.7              | 20          | .18        | .124 | .099 |
| 140-VEJ100M1HTR0606 | VEJ-100M1HTR-0606 | 10         | 6.3 x 5.7            | 32          | .21        | .137 | .112 |
| 140-VEJ220M1HTR0606 | VEJ-220M1HTR-0606 | 22         | 6.3 x 5.7            | 38          | .23        | .15  | .112 |
| 140-VEJ330M1HTR0607 | VEJ-330M1HTR-0607 | 33         | 6.3 x 7.7            | 65          | .25        | .162 | .125 |
| 140-VEJ470M1HTR0607 | VEJ-470M1HTR-0607 | 47         | 6.3 x 7.7            | 70          | .90        | .66  | .545 |
| 140-VEJ101M1HTR0810 | VEJ-101M1HTR-0810 | 100        | 8 x 10               | 210         | .46        | .30  | .237 |
| 140-VEJ221M1HTR1010 | VEJ-221M1HTR-1010 | 220        | 10 x 10.3            | 330         | .73        | .474 | .374 |
| 140-VEJ331M1HTR1313 | VEJ-331M1HTR-1313 | 330        | 12.5 x 13.5          | 490         | 1.39       | .899 | .712 |
| 140-VEJ471M1HTR1316 | VEJ-471M1HTR-1316 | 470        | 12.5 x 16            | 550         | 1.68       | 1.08 | .849 |
| <b>63 Volts</b>     |                   |            |                      |             |            |      |      |
| 140-VEJR47M1JTR0406 | VEJ-R47M1JTR-0406 | 0.47       | 4 x 5.7              | 5           | .17        | .112 | .087 |
| 140-VEJ010M1JTR0406 | VEJ-010M1JTR-0406 | 1          | 4 x 5.7              | 8           | .17        | .112 | .087 |
| 140-VEJ2R2M1JTR0406 | VEJ-2R2M1JTR-0406 | 2.2        | 4 x 5.7              | 12          | .17        | .112 | .087 |
| 140-VEJ3R3M1JTR0506 | VEJ-3R3M1JTR-0506 | 3.3        | 5 x 5.7              | 17          | .18        | .125 | .10  |
| 140-VEJ4R7M1JTR0606 | VEJ-4R7M1JTR-0606 | 4.7        | 6.3 x 5.7            | 22          | .21        | .137 | .112 |
| 140-VEJ100M1JTR0606 | VEJ-100M1JTR-0606 | 10         | 6.3 x 5.7            | 32          | .22        | .15  | .112 |
| 140-VEJ220M1JTR0607 | VEJ-220M1JTR-0607 | 22         | 6.3 x 7.7            | 58          | .26        | .162 | .125 |
| 140-VEJ330M1JTR0810 | VEJ-330M1JTR-0810 | 33         | 8 x 10               | 140         | .41        | .262 | .212 |
| 140-VEJ470M1JTR0810 | VEJ-470M1JTR-0810 | 47         | 8 x 10               | 170         | .46        | .299 | .237 |
| 140-VEJ101M1JTR1010 | VEJ-101M1JTR-1010 | 100        | 10 x 10.3            | 310         | .66        | .425 | .337 |
| 140-VEJ221M1JTR1313 | VEJ-221M1JTR-1313 | 220        | 12.5 x 13.5          | 470         | 1.27       | .825 | .65  |
| 140-VEJ331M1JTR1616 | VEJ-331M1JTR-1616 | 330        | 16 x 16.5            | 650         | 1.93       | 1.25 | .987 |
| 140-VEJ471M1JTR1616 | VEJ-471M1JTR-1616 | 470        | 16 x 16.5            | 700         | 2.12       | 1.37 | 1.07 |
| <b>100 Volts</b>    |                   |            |                      |             |            |      |      |
| 140-VEJ220M2ATR1010 | VEJ-220M2ATR-0810 | 22         | 8 x 10               | 100         | .72        | .584 | .498 |
| 140-VEJ330M2ATR1010 | VEJ-330M2ATR-1010 | 33         | 10 x 10              | 150         | .65        | .437 | .375 |
| 140-VEJ470M2ATR1313 | VEJ-470M2ATR-1313 | 47         | 12.5 x 13.5          | 250         | 1.23       | .825 | .712 |
| 140-VEJ101M2ATR1313 | VEJ-101M2ATR-1313 | 100        | 12.5 x 13.5          | 380         | 1.36       | .912 | .787 |
| 140-VEJ221M2ATR1616 | VEJ-221M2ATR-1616 | 220        | 16 x 16.5            | 450         | 2.43       | 1.62 | 1.40 |
| <b>160 Volts</b>    |                   |            |                      |             |            |      |      |
| 140-VEJ330M2CTR1313 | VEJ-330M2CTR-1313 | 33         | 12.5 x 13.5          | 95          | 1.21       | .812 | .70  |
| 140-VEJ470M2CTR1616 | VEJ-470M2CTR-1616 | 47         | 16 x 16              | 240         | 2.02       | 1.34 | 1.16 |
| 140-VEJ101M2CTR1616 | VEJ-101M2CTR-1616 | 100        | 16 x 16.5            | 250         | 2.26       | 1.51 | 1.30 |
| <b>200 Volts</b>    |                   |            |                      |             |            |      |      |
| 140-VEJ100M2DTR1313 | VEJ-100M2DTR-1313 | 10         | 12.5 x 13.5          | 80          | 1.17       | .787 | .675 |
| 140-VEJ220M2DTR1316 | VEJ-220M2DTR-1316 | 22         | 12.5 x 16            | 110         | 1.37       | .912 | .787 |
| 140-VEJ330M2DTR1316 | VEJ-330M2DTR-1316 | 33         | 12.5 x 16            | 120         | 1.42       | .95  | .812 |
| 140-VEJ470M2DTR1616 | VEJ-470M2DTR-1616 | 47         | 16 x 16.5            | 220         | 2.06       | 1.37 | 1.18 |
| <b>250 Volts</b>    |                   |            |                      |             |            |      |      |
| 140-VEJ3R3M2ETR1313 | VEJ-3R3M2ETR-1313 | 3.3        | 12.5 x 13.5          | 60          | 1.18       | .799 | .687 |
| 140-VEJ4R7M2ETR1313 | VEJ-4R7M2ETR-1313 | 4.7        | 12.5 x 13.5          | 65          | 1.21       | .812 | .70  |
| 140-VEJ100M2ETR1313 | VEJ-100M2ETR-1313 | 10         | 12.5 x 13.5          | 70          | 1.23       | .824 | .712 |
| 140-VEJ220M2ETR1313 | VEJ-220M2ETR-     |            |                      |             |            |      |      |