

■ Type List for Aluminum Electrolytic Capacitors

★ : New series
☆ : Upgrade

● Chip Type Aluminum Electrolytic Capacitors

| Category | Series | Application | Category Temp. Range (°C) | | Life time Range (hours) | | Rated Voltage Range (V.DC) | | Rated Capacitance Range (μF) | | Size range φD x L (mm) | | Outside color | JIS Configurait | Note |
|--|--------|---|---------------------------|------|-------------------------|------|----------------------------|------|------------------------------|------|------------------------|-----------|---------------|-----------------|------|
| | | | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | | | |
| Standard | VV4 | 4.5mm L | -40 | +85 | 2000 | | 6.3 | 50 | 10 | 100 | 6.3×4.5 | | Silver | 32 | |
| | VV5 | High CV | -40 | +85 | 2000 | | 4 | 100 | 1 | 2200 | 4×5.3 | 12.5×13.5 | Silver | 32 | |
| | VVB | Non Polarized | -40 | +85 | 2000 | | 6.3 | 50 | 1 | 47 | 4×5.3 | 6.3×5.3 | Silver | 32 | |
| High Reliability | VVE | 105°C , 4.5mmL | -40 | +105 | 1000 | | 6.3 | 50 | 10 | 100 | 6.3×4.5 | | Silver | 32 | |
| | VVS | 105°C , 5.5mm L | -55 | +105 | 1000 | | 6.3 | 50 | 1 | 1500 | 4×5.3 | 10×10.5 | Silver | 32 | |
| | VVR | 105°C, Long Life, High CV | -40 | +105 | 2000 | | 4 | 50 | 1 | 1500 | 4×5.3 | 10×10.5 | Silver | 32 | |
| | VV9 | 105°C , Non Polarized, 2000h | -40 | +105 | 2000 | | 6.3 | 50 | 1 | 47 | 4×5.8 | 6.3×5.8 | Silver | 32 | |
| | VVC | 105°C, 3000h/5000h | -40 | +105 | 3000 | 5000 | 6.3 | 50 | 1 | 1000 | 4×5.8 | 10×10 | Silver | 32 | |
| | VZH | 105°C, 5000h/7000h | -55 | +105 | 5000 | 7000 | 6.3 | 35 | 22 | 1000 | 6.3×5.8 | 10×10 | Silver | 32 | |
| Low Impedance, Low ESR, High Reliability | VVZ | 105°C , Low ESR | -55 | +105 | 1000 | 5000 | 6.3 | 35 | 4.7 | 2700 | 4×5.3 | 12.5×13.5 | Silver | 32 | |
| | VVD | 105°C , Low ESR, Long life | -55 | +105 | 2000 | 5000 | 6.3 | 100 | 4.7 | 2200 | 4×5.8 | 12.5×13.5 | Silver | 32 | |
| | VVV | 105°C , Low ESR, High CV | -55 | +105 | 2000 | | 6.3 | 50 | 33 | 1500 | 6.3×5.8 | 10×10 | Silver | 32 | |
| | VVD | 105°C , Low ESR, High CV | -55 | +105 | 2000 | | 6.3 | 50 | 22 | 2200 | 6.3×5.8 | 10×10 | Silver | 32 | |
| | VZK | 105°C , Low ESR, High CV | -55 | +105 | 2000 | | 25 | 35 | 470 | 1000 | 8×10 | 10×10 | Silver | 32 | ★ |
| | VVT | 125°C , Low ESR | -40 | +125 | 1000 | 5000 | 10 | 100 | 4.7 | 1000 | 4×5.8 | 12.5×13.5 | Silver | 32 | |
| | VZJ | 125°C , Low ESR, Long Life | -40 | +125 | 2000 | 3000 | 10 | 50 | 22 | 470 | 6.3×7.7 | 10×10 | Silver | 32 | ☆ |
| | VZF | 125°C , Low ESR, Long Life, High CV | -40 | +125 | 1000 | 4000 | 10 | 50 | 22 | 680 | 6.3×5.8 | 10×10 | Silver | 32 | |
| | VZE | 125°C , Low ESR, High CV | -40 | +125 | 2000 | | 35 | | 47 | 100 | 6.3×7.7 | | Silver | 32 | |
| | VVX | 135°C, Higher Reliability | -40 | +135 | 1000 | | 25 | 35 | 22 | 330 | 8×10 | 10×10 | Silver | 32 | |
| For Vibration Resistance | VTZ | 105°C, Low ESR, High CV, 30G Vibration resistance | -55 | +105 | 1000 | 5000 | 6.3 | 35 | 33 | 8200 | 6.3×5.8 | 18×21.5 | Silver | 32 | |
| | VTD | 105°C, Low ESR, High CV, 30G Vibration resistance | -55 | +105 | 2000 | 4000 | 6.3 | 100 | 10 | 8200 | 6.3×5.8 | 18×21.5 | Silver | 32 | |
| | VTT | 125°C, Low ESR, High CV, 30G Vibration resistance | -40 | +125 | 1000 | 5000 | 10 | 100 | 10 | 4700 | 6.3×5.8 | 18×21.5 | Silver | 32 | |
| | VTQ | 150°C, Low ESR, High CV, 30G Vibration resistance | -40 | +150 | 1000 | | 10 | 35 | 33 | 470 | 8×10 | 10×10 | Silver | 32 | |

* Be sure to "Cautions for using Aluminum Electrolytic capacitors", before using these products.

NOTE : Design, Specifications are subject to change without notice.
It is recommended that you shall obtain technical specifications from ELNA to ensure that the component is suitable for your use.

■ Type List for Aluminum Electrolytic Capacitors

★ : New series
☆ : Upgrade

● Miniature Aluminum Electrolytic Capacitors

| Category | Series | Application | Category Temp. Range (°C) | | Life time Range (hours) | | Rated Voltage Range (V.DC) | | Rated Capacitance Range (μF) | | Size range φD x L (mm) | | Outside color | JIS Configurati | Note |
|--|----------------------|--|---------------------------|-----------|-------------------------|-------|----------------------------|---------|------------------------------|-------|------------------------|---------|---------------|-----------------|------|
| | | | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | | | |
| Low profile | RC3 | 5mmL, Standard | -40 | +85 | 1000 | | 4 | 50 | 1 | 470 | 4×5 | 8×5 | Blue | 04 | |
| | R3S | 5mmL, 105°C | -55 | +105 | 1000 | | 6.3 | 50 | 1 | 100 | 4×5 | 6.3×5 | Black | 04 | |
| | RB3 | 5mmL, Bipolar | -40 | +85 | 1000 | | 6.3 | 50 | 0.33 | 47 | 4×5 | 6.3×5 | Blue | 04 | |
| | RC2 | 7mmL, Standard | -40 | +85 | 1000 | | 4 | 100 | 1 | 330 | 4×7 | 8×7 | Blue | 04 | |
| | R2S | 7mmL, 105°C | -55 | +105 | 1000 | | 6.3 | 50 | 1 | 100 | 4×7 | 6.3×7 | Black | 04 | |
| | RB2 | 7mmL, Bipolar | -40 | +85 | 1000 | | 6.3 | 50 | 0.33 | 47 | 4×7 | 6.3×7 | Blue | 04 | |
| Standard | RE3 | Miniaturized Standard | -40 | +85 | 2000 | | 6.3 | 450 | 0.47 | 22000 | 5×11 | 18×40 | Blue | 04 | |
| | R2B | Bipolarity Standard | -40 | +85 | 2000 | | 6.3 | 100 | 1 | 4700 | 5×11 | 18×35.5 | Blue | 04 | |
| | RJP | 105°C, Bipolar | -40 | +105 | 1000 | 2000 | 6.3 | 50 | 1 | 6800 | 5×11 | 18×35.5 | Black | 04 | |
| | RJ5 | 105°C, Miniaturized, High CV | -55 | +105 | 1000 | | 6.3 | 100 | 1 | 22000 | 5×11 | 18×40 | Black | 04 | |
| | | | -40 | | 1000 2000 | | 160 | 450 | 1 | 470 | 6.3×11 | 18×40 | | | |
| | RJ4 | 105°C, Miniaturized | -55 | +105 | 1000 2000 | | 6.3 | 100 | 1 | 22000 | 5×11 | 18×40 | Black | 04 | |
| -40 | | | 160 450 | | 1 | 330 | 6.3×11 | 18×35.5 | | | | | | | |
| RJ3 | 105°C, Low Impedance | -55 | +105 | 1000 2000 | | 6.3 | 100 | 1 | 15000 | 5×11 | 18×35.5 | Black | 04 | | |
| | | -40 | | 160 400 | | 1 | 220 | 6.3×11 | 18×40 | | | | | | |
| Special | RLB | Low-leakage Current | -40 | +85 | 1000 | | 6.3 | 50 | 1 | 2200 | 5×11 | 18×35.5 | Blue | 04 | |
| Low Impedance, Low ESR, High Reliability | RJB | 105°C, Low Impedance, Miniaturized | -55 | +105 | 2000 | 5000 | 6.3 | 100 | 3.3 | 10000 | 5×11.5 | 16×31.5 | Black | 04 | |
| | RJH | 105°C, Extra Low Impedance | -55 | +105 | 2000 | 5000 | 6.3 | 100 | 1 | 15000 | 5×11.5 | 18×40 | Black | 04 | |
| | RJF | 105°C, Extra Low Impedance, Miniaturized | -40 | +105 | 1000 | 10000 | 6.3 | 100 | 5.6 | 6800 | 4×7 | 18×40 | Black | 04 | |
| | RJM | 105°C, Long life, Low Impedance | -40 | +105 | 6000 | 10000 | 6.3 | 50 | 27 | 8200 | 5×11.5 | 16×25 | Black | 04 | |
| | RJD | 105°C, Low ESR, High Ripple, Miniaturized | -55 | +105 | 2000 | 8000 | 6.3 | 100 | 10 | 18000 | 5×11.5 | 18×40 | Black | 04 | |
| | RKD | 125°C, Low ESR, Miniaturized | -40 | +125 | 2000 | 5000 | 10 | 100 | 100 | 8200 | 8×12 | 18×40 | Black | 04 | |
| | RKB | 135°C, Low ESR, Miniaturized | -40 | +135 | 2000 | 3000 | 10 | 100 | 220 | 6800 | 10×12.5 | 18×40 | Silver | 04 | |
| | RKC | 135°C, Low ESR, Miniaturized | -40 | +135 | 2000 | 3000 | 25 | 100 | 160 | 12000 | 12.5×20 | 18×40 | Silver | 04 | |
| | RQA | 150°C, Miniaturized | -40 | +150 | 1000 | | 10 | 35 | 220 | 4700 | 10×14.5 | 18×42.5 | Silver | 04 | |
| | RQB | 150°C, Miniaturized | -40 | +150 | 2000 | | 35 | 50 | 1300 | 4700 | 16×26.5 | 18×42.5 | Silver | 04 | ★ |
| For Air bag | RJE | 105°C, Low ESR, High Ripple, For Airbag | -55 | +105 | 5000 | | 25 | 35 | 830 | 11000 | 12.5×15 | 18×40 | Black | 04 | |
| | RJK | 105°C, High CV, Low ESR, High Ripple, For Airbag | -55 | +105 | 5000 | | 25 | 35 | 2500 | 17000 | 16×20 | 18×40 | Black | 04 | |
| For Vibration Resistance | RPK | 125°C, Low ESR, 30G Vibration resistance | -40 | +125 | 4000 | 5000 | 10 | 100 | 220 | 8200 | 12.5×15 | 18×40 | Black | 04 | |
| | RKE | 125°C, Low ESR, 40G Vibration resistance | -40 | +125 | 5000 | | 25 | 50 | 1200 | 8200 | 16×31.5 | 18×40 | Silver | 04 | |
| | RKF | 135°C, Low ESR, 40G Vibration resistance | -40 | +135 | 2000 | 3000 | 25 | 100 | 180 | 10000 | 12.5×25 | 18×40 | Silver | 04 | |
| | RKG | 150°C, Low ESR, 40G Vibration resistance | -40 | +150 | 1000 | 2000 | 25 | 80 | 800 | 4700 | 18×42 | | Silver | 04 | |
| High Ripple, long Life | RHS | 105°C, Long Life, High Ripple, For OBC | -40 | +105 | 4000 | 5000 | 160 | 450 | 1 | 1000 | 10×12.5 | 22×50 | Black | 04 | |
| | RHC | 105°C, Long Life, High Ripple, For OBC | -40 | +105 | 5000 | 10000 | 160 | 450 | 2.2 | 1000 | 10×12.5 | 22×50 | Black | 04 | |
| | RHD | 105°C, Long Life, High Ripple, For OBC | -40 | +105 | 8000 | 12000 | 160 | 450 | 3.3 | 1000 | 10×12.5 | 22×50 | Black | 04 | |

* Be sure to "Cautions for using Aluminum Electrolytic capacitors", before using these products.

● Some of the series listed in the below table have been removed from the catalogue (discontinued series). Please select from the new series for a designing your(new) application.

| Category | Series | Application | Category Temp. Range (°C) | | Life time Range (hours) | | Rated Voltage Range (V.DC) | | Rated Capacitance Range (μF) | | Size range φD x L (mm) | | Substitute series to recommend |
|----------|--------|---------------------------------------|---------------------------|------|-------------------------|------|----------------------------|------|------------------------------|------|------------------------|-----------|--------------------------------|
| | | | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | |
| Polymer | PRM | Ultra Low ESR Conductive Polymer Chip | -55 | +105 | 2000 | | 2.5 | 6.3 | 120 | 1200 | 5×5.7 | 10×7.7 | — |
| Chip | VV2 | 85°C, 5.5mm L, Standard | -40 | +85 | 2000 | | 4 | 50 | 0.1 | 220 | 3×5.3 | 6.3×5.3 | VV5 |
| | VV3 | 85°C, High CV | -40 | +85 | 2000 | | 6.3 | 50 | 4.7 | 330 | 4×5.3 | 6.3×7.7 | VV5 |
| | VV1 | 85°C, Large Capacitance | -40 | +85 | 2000 | | 6.3 | 100 | 10 | 2200 | 8×6.5 | 12.5×13.5 | VV5 |
| | VVL | 105°C, 5.5mm L | -55 | +105 | 2000 | | 6.3 | 50 | 1 | 100 | 4×5.7 | 6.3×5.7 | VVZ |
| | VVJ | 105°C, Higher Capacitance | -55 | +105 | 2000 | 5000 | 6.3 | 100 | 10 | 1000 | 8×6.5 | 12.5×13.5 | VVD |

NOTE : Design, Specifications are subject to change without notice.
It is recommended that you shall obtain technical specifications from ELNA to ensure that the component is suitable for your use.

■ Type List for Aluminum Electrolytic Capacitors

★ : New series
☆ : Upgrade

● Aluminum Electrolytic Capacitors for Audio

| Category | Series | Application | Category Temp. Range (°C) | | Life time Range (hours) | Rated Voltage Range (V.DC) | | Rated Capacitance Range (μF) | | Size range φD x L (mm) | | Outside color | JIS Configurati | Note |
|-----------|--------|---------------------------------|---------------------------|------|-------------------------|----------------------------|------|------------------------------|-------|------------------------|---------|---------------|-----------------|------|
| | | | Min. | Max. | | Min. | Max. | Min. | Max. | Min. | Max. | | | |
| For Audio | VV0 | Chip Type (PURECAP) | -40 | +85 | 2000 | 6.3 | 50 | 0.33 | 1000 | 4×5.3 | 10×10 | Silver | 32 | |
| | VVM | Chip Type 105°C , 2000h | -55 | +105 | 2000 | 6.3 | 50 | 1 | 470 | 4×5.8 | 10×10.5 | Silver | 32 | |
| | VVG | Chip Type | -40 | +85 | 2000 | 6.3 | 35 | 3.3 | 470 | 4×5.3 | 10×10 | Silver | 32 | |
| | ROB | Miniaturized Standard (TONEREX) | -40 | +85 | 1000 | 6.3 | 100 | 1 | 10000 | 5×11 | 18×40 | Black | 04 | |
| | RF0 | Standard (PURECAP) | -40 | +85 | 1000 | 6.3 | 100 | 1 | 15000 | 5×11 | 18×35.5 | Black | 04 | |
| | RA3 | Miniaturized Standard | -40 | +85 | 2000 | 6.3 | 100 | 1 | 22000 | 5×11 | 18×35.5 | Brown | 04 | |
| | RW5 | 105°C , Miniaturized | -55 | +105 | 1000 | 16 | 25 | 100 | 15000 | 5×11.5 | 18×40 | Black | 04 | |
| | RBD | Miniaturized Bipolar | -40 | +85 | 2000 | 6.3 | 100 | 1 | 4700 | 5×11 | 18×35.5 | Black | 04 | |

* Be sure to "Cautions for using Aluminum Electrolytic capacitors", before using these products.

● Some of the series listed in the below table have been removed from the catalogue (discontinued series). Please select from the new series for a designing your(new) application.

| Category | Series | Application | Category Temp. Range (°C) | | Life time Range (hours) | Rated Voltage Range (V.DC) | | Rated Capacitance Range (μF) | | Size range φD x L (mm) | | Substitute series to recommend |
|---|--------|------------------------|---------------------------|------|-------------------------|----------------------------|------|------------------------------|------|------------------------|-------|--------------------------------|
| | | | Min. | Max. | | Min. | Max. | Min. | Max. | Min. | Max. | |
| For Audio | VVF | Chip Type (SILMIC) | -40 | +85 | 2000 | 10 | 50 | 1 | 100 | 4×5.3 | 8×10 | — |
| | RFS | High Grade (SILMIC II) | -40 | +85 | 1000 | 6.3 | 100 | 3.3 | 3300 | 5×11 | 18×40 | — |
| | R0S | High Grade (SILMIC) | -40 | +85 | 1000 | 16 | 100 | 10 | 2200 | 6.3×11 | 18×40 | — |
| All Large Capacitance Aluminum Electrolytic Capacitors | | | | | | | | | | | | |

NOTE : Design, Specifications are subject to change without notice.
It is recommended that you shall obtain technical specifications from ELNA to ensure that the component is suitable for your use.