

# Surface Mount Aluminum Electrolytic

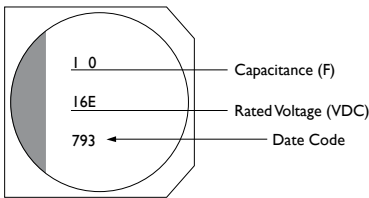
# CD [ For Ultra Low Impedance ]



## FEATURE

For Ultra Low Impedance Series with 105°C 2000 Hours  
Suitable for AV (TV, Video, Audio), Monitor / Computer,  
OA / HA / Communication, SMPS

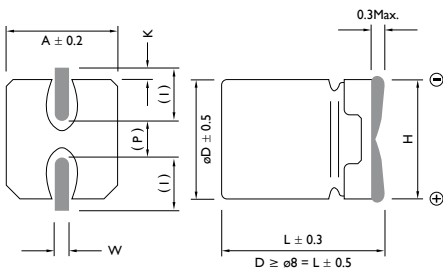
## MARKING



## ELECTRICAL CHARACTERISTICS

|  |   |      |      |      |      |      |
|--|---|------|------|------|------|------|
| Operation Temperature Range                | -40 to +105°C   |      |      |      |      |      |
| Rated Voltage Range                        | 6.3 to 35VDC  |      |      |      |      |      |
| Rated Capacitance Range                    | 4.7 ~ 1500μF  |      |      |      |      |      |
| Capacitance Tolerance                      | ±20% at 120Hz, 20°C   |      |      |      |      |      |
| Leakage Current (Max. 20°C)                | $I \leq 0.01CV$ (μA) or 3μA<br>(After 2 Minutes Application of DC Rated Voltage at 20°C)<br>I = Leakage Current (μA), C = Rated Capacitance (μF), V = Rated Voltage (V)   |      |      |      |      |      |
| Dissipation Factor (tanδ)<br>(120Hz, 20°C) | WV(V)   | 6.3  | 10   | 16   | 25   | 35   |
|  | tan δ   | 0.26 | 0.19 | 0.16 | 0.14 | 0.12 |
| Low Temperature Stability                  | Impedance Ratio at 120Hz  |      |      |      |      |      |
|  | WV (V)  | 6.3  | 10   | 16   | 25   | 35   |
|  | Z (-25°C) / Z (+20°C)   | 2    | 2    | 2    | 2    | 2    |
|  | Z (-40°C) / Z (+20°C)   | 3    | 3    | 3    | 3    | 3    |
| Endurance                                  | After the WV has been applied at 105°C for 2000 hours, the capacitors shall meet following requirements.<br>(a) Capacitance Change: Within ±30% of the Initial Value<br>(b) Dissipation Factor: Not Exceeding 200% of Specified Value<br>(c) Leakage Current: Not Exceeding the Specified Value |      |      |      |      |      |
| Shelf Life                                 | After having been placed at 105°C without voltage applied for 1000 hours, the capacitors shall meet the same requirements as Endurance.   |      |      |      |      |      |

## DIMENSIONS



( ) Reference Size

Unit: mm

| SIZE CODE | Dø   | L    | A    | H         | I   | W          | P         | K  |
|-----------|------|------|------|-----------|-----|------------|-----------|--|
| B         | 4.0  | 5.4  | 4.3  | 5.5 Max.  | 1.8 | 0.65 ± 0.1 | 1.0 ± 0.2 | 0.35 <sup>+ 0.15</sup> <sub>- 0.20</sub> |
| C         | 5.0  | 5.4  | 5.3  | 6.5 Max.  | 2.2 | 0.65 ± 0.1 | 1.5 ± 0.2 | 0.35 <sup>+ 0.15</sup> <sub>- 0.20</sub> |
| D         | 6.3  | 5.4  | 6.6  | 7.8 Max.  | 2.6 | 0.65 ± 0.1 | 1.8 ± 0.2 | 0.35 <sup>+ 0.15</sup> <sub>- 0.20</sub> |
| E         | 8.0  | 6.5  | 8.3  | 9.5 Max.  | 3.4 | 0.65 ± 0.1 | 2.2 ± 0.2 | 0.35 <sup>+ 0.15</sup> <sub>- 0.20</sub> |
| F         | 8.0  | 10.5 | 8.3  | 10.0 Max. | 3.4 | 0.90 ± 0.2 | 3.1 ± 0.2 | 0.70 ± 0.20                              |
| G         | 10.0 | 10.5 | 10.3 | 12.0 Max. | 3.5 | 0.90 ± 0.2 | 4.6 ± 0.2 | 0.70 ± 0.20                              |
| H         | 6.3  | 7.7  | 6.6  | 7.8 Max.  | 2.6 | 0.65 ± 0.1 | 1.8 ± 0.2 | 0.35 <sup>+ 0.15</sup> <sub>- 0.20</sub> |

## CASE SIZE & PERMISSIBLE RIPPLE CURRENT OF STANDARD PRODUCTS

D x L: mm

| CAP. (μF) | RATED VOLTAGE WV (SURGE VOLTAGE WV) |        |      |                 |        |      |                 |        |      |
|-----------|-------------------------------------|--------|------|-----------------|--------|------|-----------------|--------|------|
|           | 6.3 (8)<br>SIZE                     |        |      | 10 (13)<br>SIZE |        |      | 16 (20)<br>SIZE |        |      |
|           | SIZE                                | RIPPLE | ESR  | SIZE            | RIPPLE | ESR  | SIZE            | RIPPLE | ESR  |
| 22        | 4 x 5.4                             | 90     | 1.93 | 4 x 5.4         | 90     | 1.93 | 4 x 5.4         | 90     | 1.93 |
|           |                                     |        |      |                 |        |      | 5 x 5.4         | 160    | 1.00 |
| 33        | 4 x 5.4                             | 90     | 1.93 | 4 x 5.4         | 90     | 1.93 | 5 x 5.4         | 160    | 1.00 |
|           |                                     |        |      | 5 x 5.4         | 160    | 1.00 |                 |        |      |
| 47        | 4 x 5.4                             | 90     | 1.93 | 6.3 x 5.4       | 190    | 0.52 | 5 x 5.4         | 160    | 1.00 |
|           | 5 x 5.4                             | 160    | 1.00 |                 |        |      | 6.3 x 5.4       | 240    | 0.52 |
| 100       | 5 x 5.4                             | 160    | 1.00 | 6.3 x 5.4       | 190    | 0.52 | 6.3 x 5.4       | 240    | 0.52 |
|           | 6.3 x 5.4                           | 240    | 0.52 |                 |        |      |                 |        |      |
| 150       | 8 x 6.5                             | 240    | 0.30 | 6.3 x 7.7       | 240    | 0.34 | 6.3 x 7.7       | 280    | 0.34 |
| 220       | 8 x 6.5                             | 240    | 0.30 | 6.3 x 7.7       | 280    | 0.34 | 6.3 x 7.7       | 330    | 0.34 |
|           |                                     |        |      | 8 x 6.5         | 300    | 0.26 | 8 x 10.5        | 370    | 0.22 |
| 330       | 6.3 x 7.7                           | 280    | 0.34 | 8 x 10.5        | 600    | 0.16 | 8 x 10.5        | 600    | 0.16 |
|           | 8 x 6.5                             | 300    | 0.26 |                 |        |      |                 |        |      |
| 470       | 8 x 10.5                            | 600    | 0.16 | 8 x 10.5        | 600    | 0.16 | 8 x 10.5        | 600    | 0.16 |
|           |                                     |        |      |                 |        |      | 10 x 10.5       | 600    | 0.08 |
| 680       | 8 x 10.5                            | 600    | 0.16 | 10 x 10.5       | 600    | 0.12 | 10 x 10.5       | 850    | 0.08 |
| 820       |                                     |        |      |                 |        |      | 10 x 10.5       | 850    | 0.08 |
| 1000      | 10 x 10.5                           | 600    | 0.16 |                 |        |      |                 |        |      |
| 1200      | 10 x 10.5                           | 700    | 0.16 |                 |        |      |                 |        |      |
| 1500      | 10 x 10.5                           | 850    | 0.08 |                 |        |      |                 |        |      |

Note: 1. Ripple Current: (mA/rms) 105°C, 100KHz

2. ESR: 100KHz / 20°C (Ω Max.)



## CASE SIZE & PERMISSIBLE RIPPLE CURRENT OF STANDARD PRODUCTS

D x L: mm

| CAP. (μF) | RATED VOLTAGE WV (SURGE VOLTAGE WV) |        |      |                 |        |      |
|-----------|-------------------------------------|--------|------|-----------------|--------|------|
|           | 25 (32)<br>SIZE                     |        |      | 35 (44)<br>SIZE |        |      |
|           |                                     | RIPPLE | ESR  |                 | RIPPLE | ESR  |
| 4.7       |                                     |        |      | 4 x 5.4         | 90     | 1.93 |
| 10        | 4 x 5.4                             | 90     | 1.93 | 4 x 5.4         | 90     | 1.93 |
|           |                                     |        |      | 5 x 5.4         | 160    | 1.00 |
| 22        | 5 x 5.4                             | 160    | 1.00 | 5 x 5.4         | 160    | 1.00 |
| 33        | 5 x 5.4                             | 160    | 1.00 | 6.3 x 5.4       | 240    | 0.52 |
|           | 6.3 x 5.4                           | 240    | 0.52 |                 |        |      |
| 47        | 6.3 x 5.4                           | 240    | 0.52 | 6.3 x 5.4       | 240    | 0.52 |
| 68        | 6.3 x 5.4                           | 240    | 0.52 | 6.3 x 7.7       | 280    | 0.34 |
| 100       | 6.3 x 7.7                           | 280    | 0.34 | 6.3 x 7.7       | 280    | 0.34 |
|           | 8 x 6.5                             | 300    | 0.26 | 8 x 10.5        | 600    | 0.16 |
|           |                                     |        |      | 10 x 10.5       | 850    | 0.08 |
| 150       | 8 x 10.5                            | 600    | 0.16 | 8 x 10.5        | 600    | 0.16 |
| 220       | 8 x 10.5                            | 600    | 0.16 | 10 x 10.5       | 600    | 0.16 |
| 330       | 10 x 10.5                           | 600    | 0.16 | 10 x 10.5       | 850    | 0.08 |
| 470       | 10 x 10.5                           | 850    | 0.08 |                 |        |      |

Note: 1. Ripple Current: (mA/rms) 105°C, 100KHz

2. ESR: 100KHz / 20°C (Ω Max.)

单击下面可查看定价，库存，交付和生命周期等信息

[>>Yageo\(国巨\)](#)