

# Snap Mount Type Aluminum Electrolytic Capacitor

DH series

useful life 105°C-5,000hours

Conform RoHS

Upgrade!



## Features

- ◇ Suited to high frequency Charge-Discharge use for AC servomotor, general inverter.
- ◇ Uses materials with improved Charge-Discharge durability.
- ◇ The same technology is optionally available for screw terminal type capacitors.

### 【 Update information 】

The Charge-Discharge durability has been upgraded from the previous 100 million Charge-Discharge cycles to 200 million cycles.

## Product Specifications

| Items                                  | Specifications                                                                                                                                            |                                                                                                                                           |
|----------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------|
| Temperature range                      | -25~+105°C                                                                                                                                                |                                                                                                                                           |
| Rated voltage                          | 400, 450V.DC                                                                                                                                              |                                                                                                                                           |
| Capacitance tolerance                  | ± 20 %     ( 20°C, 120Hz)                                                                                                                                 |                                                                                                                                           |
| Dissipation factor                     | Max. 0.20   ( 20°C, 120Hz)                                                                                                                                |                                                                                                                                           |
| Leakage current                        | 0.02CV (μA) or 3mA, whichever is smaller or less (20°C, after 5 minutes)<br>[ C = nominal capacitance (μF), V = rated voltage (V) ]                       |                                                                                                                                           |
| Endurance                              | After the rated voltage with specified ripple current is applied at 105°C for 3000 hours :                                                                | Capacitance change : Within ± 20% of the initial value measured                                                                           |
| Endurance of Charge-Discharge behavior | After an application of Charge-Discharge voltage for 200 million times (Charge-Discharge ΔV=150V, cycle 6Hz) at 40°C, following requirements must be met. | Dissipation factor : 200% or less than the initial value specified<br>Leakage current : Less than or equal to the initial value specified |

## Standard Products Table

| Rated Voltage<br>(V. DC) | Capacitance<br>(μ F) | Case size<br>φ D × L<br>(mm) | Ripple current<br>(Arms)<br>105°C, 120Hz | Rated Voltage<br>(V. DC) | Capacitance<br>(μ F) | Case size<br>φ D × L<br>(mm) | Ripple current<br>(Arms)<br>105°C, 120Hz |
|--------------------------|----------------------|------------------------------|------------------------------------------|--------------------------|----------------------|------------------------------|------------------------------------------|
| 400                      | 180                  | 22 × 40                      | 1.09                                     | 450                      | 150                  | 22 × 40                      | 1.00                                     |
|                          | 220                  | 22 × 45                      | 1.25                                     |                          |                      | 25 × 35                      | 1.00                                     |
|                          |                      | 25 × 35                      | 1.21                                     |                          | 180                  | 22 × 45                      | 1.13                                     |
|                          | 270                  | 25 × 40                      | 1.39                                     |                          |                      | 25 × 35                      | 1.09                                     |
|                          |                      | 30 × 30                      | 1.34                                     |                          | 220                  | 25 × 45                      | 1.30                                     |
|                          | 330                  | 25 × 45                      | 1.60                                     |                          |                      | 30 × 30                      | 1.21                                     |
|                          |                      | 30 × 35                      | 1.55                                     |                          | 270                  | 25 × 50                      | 1.49                                     |
|                          | 390                  | 30 × 40                      | 1.76                                     |                          |                      | 30 × 35                      | 1.41                                     |
|                          |                      | 35 × 30                      | 1.67                                     |                          | 330                  | 30 × 40                      | 1.62                                     |
|                          | 470                  | 30 × 45                      | 2.00                                     |                          |                      | 35 × 35                      | 1.60                                     |
|                          |                      | 35 × 35                      | 1.91                                     |                          | 390                  | 30 × 50                      | 1.88                                     |
|                          | 560                  | 30 × 50                      | 2.25                                     |                          |                      | 35 × 40                      | 1.81                                     |
|                          |                      | 35 × 40                      | 2.17                                     |                          | 470                  | 35 × 45                      | 2.05                                     |
| 680                      |                      | 35 × 45                      | 2.47                                     | 560                      |                      | 35 × 50                      | 2.31                                     |

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