

# Snap in Type Aluminum Electrolytic Capacitors

## I. Product Name and Type

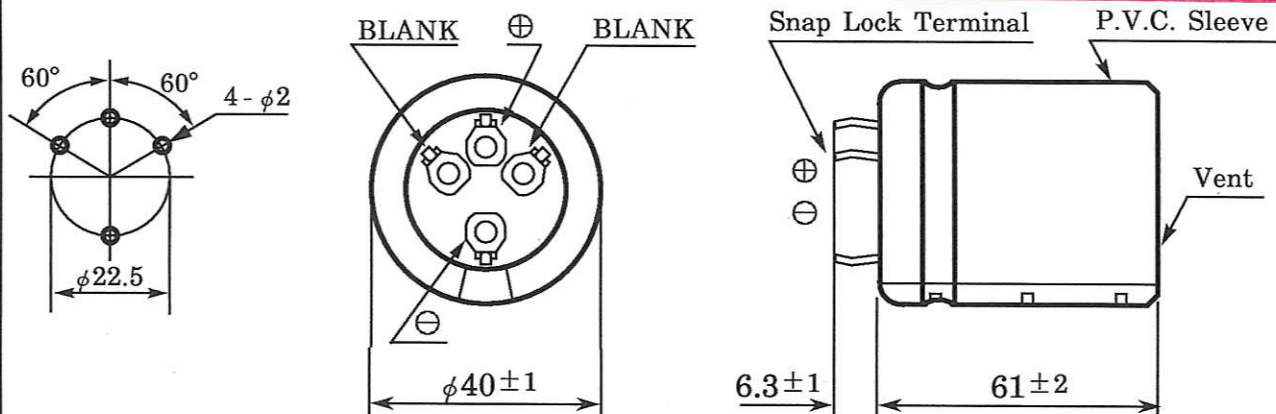
- 1.Product Name : Aluminum Electrolytic Capacitor  
 2.Shape : Metal case, Snap-in Terminal  
 3.Type : HU4 2G 102MSBS9

REFERENCE DRAWING

12.02.'03

Hitachi AIC Inc.

## II. Outline Drawing



## III. Specifications

- |                                       |   |                                             |
|---------------------------------------|---|---------------------------------------------|
| 1. Operating Temperature Range        | : | $-40^\circ\text{C} \sim +105^\circ\text{C}$ |
| 2. Rating voltage                     | : | 400 V.DC                                    |
| 3. Capacitance                        | : | 1000 $\mu\text{F}$                          |
| 4. Capacitance Tolerance              | : | $-20 \sim +20$ % (at 120Hz, 20°C)           |
| 5. Dissipation factor (tan $\delta$ ) | : | max. 0.15 (at 120Hz, 20°C)                  |
| 6. Surge Voltage                      | : | 450 V.DC                                    |
| 7. Leakage Current                    | : | max. 3.00 mA (at 20°C, 5min)                |
| 8. Permissible Ripple Current         | : | 2.96 Arms (at 120Hz, 105°C)                 |

Maximum capable ripple current applied is to be calculated for conversion, using the figures stated below.

For life time and ripple current at different conditions please refer to our catalogue data.

Frequency(Hz) Multiplier factor

| 50/60 | 120 | 300 | 1K  | 10K $\leq$ |
|-------|-----|-----|-----|------------|
| 0.7   | 1.0 | 1.1 | 1.3 | 1.4        |

- |               |   |                                                                                             |
|---------------|---|---------------------------------------------------------------------------------------------|
| 9. ESR (typ.) | : | 90 m $\Omega$ (at 100Hz, 20°C)                                                              |
| 10. Others    | : | The other electrical and mechanical characteristics. JIS-C-5101-4 correspondingly to apply. |

TO ; HPC-Distribution

|       |           |            |                                       |                  |        |
|-------|-----------|------------|---------------------------------------|------------------|--------|
| DWN.  | R. Tanaka | Dec. 2.'03 | ALUMINUM<br>ELECTROLYTIC<br>CAPACITOR | Hitachi AIC Inc. | 37T181 |
| CHKD. |           |            |                                       |                  |        |
| APPD. | M. Sakuma | Dec. 2.'03 |                                       |                  |        |