# Panasonic

## Stacked Coin Type

**Series:** SD

**Country of Origin**

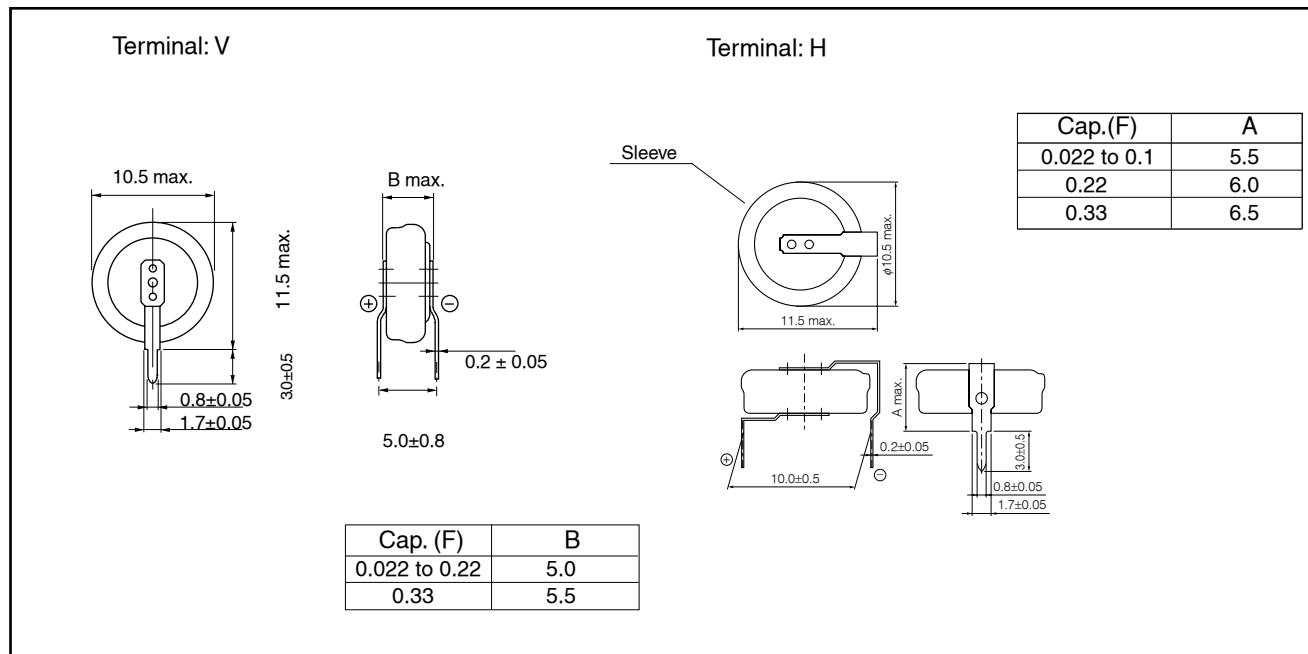■ **Feature**   Endurance : 70°C 1000 h
RoHS directive compliant

Japan

■ Recommended Applications
Memory back-up for video and audio equipment, cameras, telephones, printers, data terminals, rice cookers, intelligent remote controls

## ■ Specifications

| Category temp. range | -25 to +70°C | |
|---|---|---|
| Maximum Operating Voltage | 5.5 V .DC | |
| Nominal Cap. Range | 0.022 to 0.33 F | |
| Characteristics at Low Temperature | Capacitance change | ±30% of initial measured value at +20°C (-25 to +70°C) |
| | Internal resistance | ≦ 5 times of initial measured value at +20°C (at -25°C) |
| Endurance | After 1000 hours application of 5.5V. DC at +70°C, the capacitor shall meet the following limits. | |
| | Capacitance change | ±30% of initial measured value |
| | Internal resistance | ≦ 4 times of initial specified value |
| Shelf Life | After 1000 hours storage at +70°C without load, the capacitor shall meet the specified limits for Endurance. | |
| Moisture Resistance | After 500 hours storage at +55°C, 90 to 95% R.H., the capacitor shall meet the specified limits for Endurance. | |

## ■ Dimensions in mm (not to scale)

Terminal: V

Terminal: H

| Cap.(F) | A |
|---|---|
| 0.022 to 0.1 | 5.5 |
| 0.22 | 6.0 |
| 0.33 | 6.5 |

10.5 max.

B max.

11.5 max.

3.0±0.5

Sleeve

φ10.5 max.

11.5 max.

A max.

0.8±0.05
1.7±0.05

0.2 ± 0.05

5.0±0.8

0.2±0.05

3.0±0.5

10.0±0.5

0.8±0.05
1.7±0.05

| Cap. (F) | B |
|---|---|
| 0.022 to 0.22 | 5.0 |
| 0.33 | 5.5 |

## ■ Standard Products

| Maximum Operating Voltage (V.DC) | Capacitance (F) | Capacitance range (F) | Internal resistance (Ω) at 1kHz | Part number | Min. Packaging Q'ty (PCS) |
|---|---|---|---|---|---|
| 5.5 | 0.022 | 0.0176 to 0.0396 | ≦150 | EECS0HD 223( ) | 200 |
| | 0.047 | 0.0376 to 0.0846 | ≦120 | EECS0HD 473( ) | 200 |
| | 0.10 | 0.080 to 0.180 | ≦ 75 | EECS0HD 104( ) | 200 |
| | 0.22 | 0.176 to 0.396 | ≦ 75 | EECS0HD 224( ) | 200 |
| | 0.33 | 0.264 to 0.594 | ≦ 75 | EECS0HD 334( ) | 200 |

( ) Please use V or H, to indicate the terminal style.

Note:Do not use reflow soldering.(IR, Atmosphere heating methods, etc.)

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