

### Stacked Coin Type

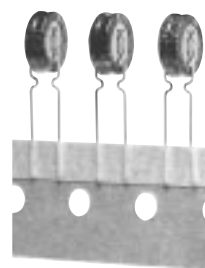
Series: **SE**

#### ■ Features

- Endurance : 70 °C 1000 h
- Automatic insertion available
- RoHS directive compliant

#### ■ Recommended Applications

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



#### ■ Specifications

Category Temp. Range	-25 °C to +70 °C	
Maximum Operating Voltage	5.5 V.DC	
Nominal Cap.Range	0.022 F to 0.22 F	
Characteristics at Low Temperature	Capacitance change	±30 % of initial measured value at +20 °C (-25 °C to +70 °C)
	Internal resistance	≤5 times of initial measured value at +20 °C (at -25 °C)
Endurance	After 1000 hours application of 5.5 V. 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.	

#### ■ Dimensions in mm(not to scale)

		<table border="1"> <thead> <tr> <th>Dimensions</th><th>Nominal</th><th>Tolerance</th></tr> </thead> <tbody> <tr> <td>ϕd</td><td>0.55</td><td>±0.05</td></tr> <tr> <td>P0</td><td>12.7</td><td>±0.2</td></tr> <tr> <td>F</td><td>5.0</td><td>+0.8 -0.2</td></tr> <tr> <td>W</td><td>18.0</td><td>±0.5</td></tr> <tr> <td>W0</td><td>5.5≤</td><td>—</td></tr> <tr> <td>W1</td><td>9.0</td><td>±0.5</td></tr> <tr> <td>W2</td><td>0 to 3.0</td><td>—</td></tr> <tr> <td>H</td><td>18.0</td><td>±0.5</td></tr> <tr> <td>ϕD0</td><td>4.0</td><td>±0.2</td></tr> <tr> <td>P</td><td>12.7</td><td>±1.0</td></tr> <tr> <td>P1</td><td>3.85</td><td>±0.50</td></tr> <tr> <td>P2</td><td>6.35</td><td>±1.00</td></tr> <tr> <td>Δh, Δh1</td><td>0</td><td>±1.0</td></tr> <tr> <td>H1</td><td>28.5≤</td><td>—</td></tr> </tbody> </table>	Dimensions	Nominal	Tolerance	ϕd	0.55	±0.05	P0	12.7	±0.2	F	5.0	+0.8 -0.2	W	18.0	±0.5	W0	5.5≤	—	W1	9.0	±0.5	W2	0 to 3.0	—	H	18.0	±0.5	ϕD0	4.0	±0.2	P	12.7	±1.0	P1	3.85	±0.50	P2	6.35	±1.00	Δh, Δh1	0	±1.0	H1	28.5≤	—
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* Expected dimensions of the capacitor above the board after soldering																																															

#### ■ 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	EECSE0H223	1000
	0.047	0.0376 to 0.0846	≤ 120	EECSE0H473	1000
	0.10	0.080 to 0.180	≤ 75	EECSE0H104	1000
	0.22	0.176 to 0.396	≤ 75	EECSE0H224	1000

Note: 1. When ordering please observe the minimum packaging quantity.

2. When the surface mount component goes through UV or a heat oven to affix the adhesive glue, the capacitor's surface temperature should not exceed 100 °C for more than 60 seconds (maximum temperature should not exceed 105 °C)

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

Please refer to P197 "Mounting Specifications".