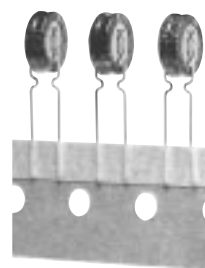## Stacked Coin Type

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 (at −25 °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)

(Unit : mm)

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	–
H0	16.4	±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	30.3≧	–

■ Standard Products

Maximum Operating Voltage (V.DC)	Capacitance (F)	Capacitance tolerance (F)	Internal resistance (Initial specified value) (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 the page of "Application Guidelines".

00 Nov. 2012