Stacked Coin Type

Not recommended for new design

Series: **SD** Low temperature assured product



Features

• Endurance: +70 °C 1000 h

Category temperature range : −40 °C to +70 °C

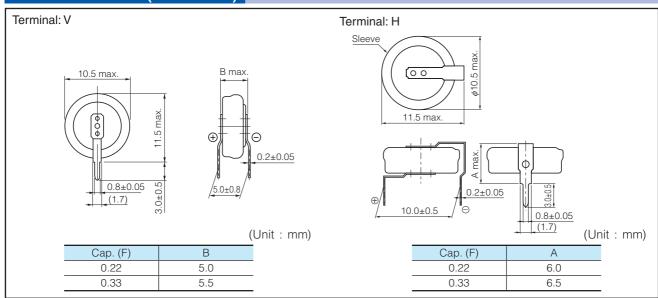
RoHS compliant

Recommended applications

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

Specifications					
Category temp. range	−40 °C to +70 °C				
Maximum operating voltage	5.5 V.DC				
Nominal cap.range	0.22 F, 0.33 F				
Characteristics at	Capacitance change	nange ±30 % of initial measured value at +20 °C (at -40 °C)			
low temperature	Internal resistance	≤ 7 times of initial measured value at +20 °C (at -40 °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)



Characteristics list Maximum Min. Capacitance Internal resistance Recommended Mass Capacitance operating packaging tolerance discharge current (Reference value) (Initial specified value) Parts number voltage (F) q'ty (F) (Ω) at 1 kHz (µA) (g) (V.DC) (pcs) 0.22 0.176 to 0.396 EECS0HD224()N ≤ 75 300 or less 1.0 200 5.5 0.33 0.264 to 0.594 EECS0HD334()N ≤ 75 300 or less 1.1 200

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

Please refer to the page of "Application guidelines".

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

Stacked Coin Type

Series : SD



Features

• Endurance: +70 °C 1000 h

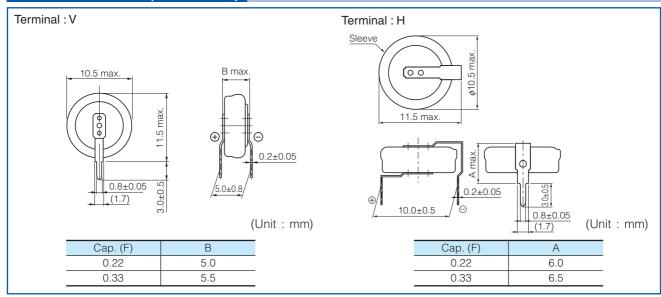
RoHS compliant

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 °C to +70 °C				
Maximum operating voltage	5.5 V.DC				
Nominal cap.range	0.22 F, 0.33 F				
Characteristics at low temperature	Capacitance change	ge ±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 store limits for Endurance.	age at +70 °C without load, the capacitor shall meet the specified			

Dimensions in mm(not to scale)



Characteristics list

Maximum operating voltage (V.DC)	Capacitance (F)	Capacitance tolerance (F)	Internal resistance (Initial specified value) (Ω) at 1 kHz	Recommended discharge current (µA)	Parts number	Mass (Reference value)	Min. packaging q'ty (pcs)
5.5	0.22	0.176 to 0.396	≤ 75	300 or less	EECS0HD224()	1.0	200
	0.33	0.264 to 0.594	≤ 75	300 or less	EECS0HD334()	1.1	200

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

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

Please refer to the page of "Application guidelines".