

Stacked Coin Type

Series : **SD**



Features

- Endurance : +70 °C 1000 h
- RoHS compliant

Recommended applications

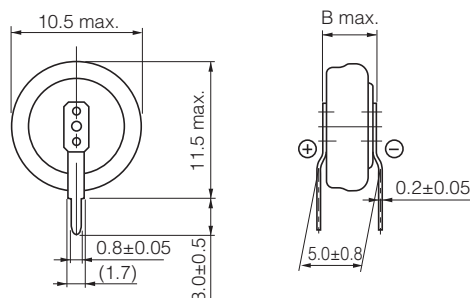
- Memory back-up for video and audio equipment, cameras, telephones, printers, data terminals, rice cookers, intelligent remote controls

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	±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)

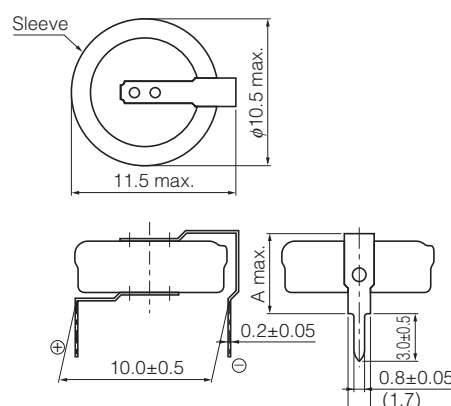
Terminal : V



(Unit : mm)

Cap. (F)	B
0.22	5.0
0.33	5.5

Terminal : H



(Unit : mm)

Cap. (F)	A
0.22	6.0
0.33	6.5

Characteristics list

Category temp. range (°C)	Maximum operating voltage (V.DC)	Capacitance (F)	Capacitance tolerance (F)	Internal resistance (Initial specified value) (Ω) at 1 kHz	Recommended *1 discharge current (μA)	Parts number	Mass (Reference value) (g)	Min. packaging q'ty (pcs)
-25 to +70	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.

*1 The recommended discharge current is a reference value. Please design your equipment(circuit) in consideration of IR drop.

Do not use reflow soldering. Please refer to the page of "Application guidelines".

Panasonic Electric Double Layer Capacitors (Gold Capacitors)

Explanation of part numbers

Part number system

Discontinued

【 Multilayer Coin Type 】

◇ Series : RG

EEC	RG	0V	224	V	U
Product classification 3 figures	Series code 2 figures	Max. operating voltage code 2 figures	Capacitance code 3 figures	Terminal style 1 figure	Suffix 0 ~1 figure

◇ Series : RF、LF、SE

EEC	RF	0H	104	U
Product classification 3 figures	Series code 2 figures	Max. operating voltage code 2 figures	Capacitance code 3 figures	Suffix 0 ~2 figures

◇ Series : SD

EEC	S	0H	D	224	H	U
Product classification 3 figures	Series code① 1 figure	Max. operating voltage code 2 figures	Series code② 1 figure	Capacitance code 3 figures	Terminal style 1 figure	Suffix 0 ~1 figure

◇ Series : SG

EEC	S	5R5	V	474	N
Product classification 3 figures	Series code 1 figure	Max. operating voltage code 3 figures	Terminal style 1 figure	Capacitance code 3 figures	Suffix 0 ~1 figure

◇ Series : NF、F

EEC	F	5R5	H	104	U
Product classification 3 figures	Series code① 1 figure	Max. operating voltage code 3 figures	Series code② 1 figure	Capacitance code 3 figures	Suffix 0 ~1 figure

Series	Code
RG (-25℃ to +85℃ : 2000 h)	RG
RF (-25℃ to +85℃ : 2000 h)	RF
LF (-40℃ to +85℃ : 6000 h)	LF
SE (-25℃ to +70℃ : 1000 h)	SE
SG (-25℃ to +70℃ : 1000 h)	S
F (-25℃ to +85℃ : 1000 h)	①F ②H
NF (-25℃ to +70℃ : 1000 h)	①F ②U
SD (-25℃ to +70℃ : 1000 h)	①S ②D

Max. operating voltage (V.DC)	Code
3.6	0V
5.5	0H
5.5	5R5

Capacitance (F)	Code
0.1	104
0.22	224
0.33	334
0.47	474
0.68	684
1.0	105
1.5	155

* Terminal style (RG, SG, SD)
V or H

* Suffix (Series common)
N : Low temperature guarantee
(-40℃ to)



Capacitors > Electric Double Layer Capacitors (Gold) > Multilayer Coin Type > SD Series > **EECS0HD224V**

EECS0HD224V

Resources

Check Stock

SPECIFICATION

Item	Performance characteristics
Body Type	Coin type (multi-layer structure)
Rated Voltage (V)	5.5
Capacitance (F)	0.22
Capacitance Tolerance (%)	-20 to 80
E.S.R.-1 (Max. Value) (Ω)	75
Operating Temperature Range (°C)	-25 to 70
Body Diameter (mm)	10.5
Body Length (mm)	10.5
Width (mm)	5
Height (mm)	11.5
Lead (Terminal) Pitch (mm)	5
Endurance (h)	1000
Forming & Packaging Feature	Bulk (no lead/terminal forming), bag packing
Minimum Packaging Quantity (PCS.)	200
Minimum Packaging Quantity (pieces)	200
Minimum packaging quantity (piece)	200
Weight (Typ.) (g)	1

STOCK CHECK

Check Stock

Change region North America

Important

The service is owned, operated, controlled and managed by Panasonic's distributors.

For pricing, delivery and technical questions related to this service, please direct to them.

Panasonic assumes no responsibility for any dealings you may have with distributors.



^
[Back to top](#)

Sales and Support

[Find the nearest sales rep or distributor](#)

White Papers

[Register today to access Panasonic's White Paper Pagoda for technical papers and more!](#)

Download The App

