## **Panasonic** Electric Double Layer Capacitors (Gold Capacitor)

## Stacked Coin Type

Not recommended for new design

 ${\sf Series}: \, \textbf{F} \ {\sf Low} \ {\sf temperature} \ {\sf assured} \ {\sf product}$ 



## Features

- Endurance : +85 °C 1000 h
- Category temperature range : -40 °C to +85 °C
- RoHS compliant

## **Recommended Applications**

• Backup of data/RTC of base station, electronic meter, and industrial equipment

Specifications					
Category temp. range	−40 °C to +85 °C				
Maximum operating voltage	5.5 V.DC				
Nominal cap.range	0.1 F to 1.0 F				
Characteristics at	Capacitance change	±30 % of initial measured value at +20 °C (at -40 °C)			
low temperature	Internal resistance $\leq$ 7 times of initial measured value at +20 °C (at -40 °C)				
	After 1000 hours application of 5.5 V.DC at +85 °C, the capacitor shall meet the following limits.				
Endurance	Capacitance change	±30 % of initial measured value			
	Internal resistance	rnal resistance $\leq 4$ times of initial specified value			
Shelf Life	After 1000 hours storage at +85 °C without load, the capacitor shall meet the specified limits for Endurance.				

## 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	Parts number	Case code	Mass (Reference value) (g)	Min. packaging q'ty (pcs)
	0.10	0.080 to 0.180	≦ 100	300 µA or less	EECF5R5H104N	А	3.3	200
5.5	0.47	0.376 to 0.846	≦ 75	1 mA or less	EECF5R5H474N	В	10.0	100
	0.68	0.544 to 1.224	≦ 50	1 mA or less	EECF5R5H684N	В	10.0	100
	1.00	0.80 to 1.80	≦ 50	1 mA or less	EECF5R5H105N	В	10.0	100

Note : Do not use reflow soldering. (IR, Atmosphere heating methods, etc.) Please refer to the page of "Application guidelines".

## **Stacked Coin Type**

Series : F

# TRAFT D

## Features

- Endurance : +85 °C 1000 h
- RoHS compliant

#### **Recommended Applications**

• Backup of data/RTC of base station, electronic meter, and industrial equipmet

Specifications					
Category temp. range	−25 °C to +85 °C				
Maximum operating voltage	5.5 V.DC				
Nominal cap.range	0.1 F to 1.0 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 +85 °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 +85 °C without load, the capacitor shall meet the specified limits for Endurance.				

## 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	Parts number	Case code	Mass (Reference value) (g)	Min. packaging q'ty (pcs)
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	1.00	0.80 to 1.80	≦ 50	1 mA or less	EECF5R5H105	В	10.0	100

Note : Do not use reflow soldering. (IR, Atmosphere heating methods, etc.) Please refer to the page of "Application guidelines".

Design and specifications are each subject to change without notice. Ask factory for the current technical specifications before purchase and/or use. Should a safety concern arise regarding this product, please be sure to contact us immediately.