

Stacked Coin Type

Series : **NF** 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 and 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 to 1.5 F	
Characteristics at low temperature	Capacitance change	±30 % of initial measured value at +20 °C (at -40 °C)
	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
Shelf life	After 1000 hours storage at +70 °C without load, the capacitor shall meet the specified limits for Endurance.	
	Internal resistance	≤ 4 times of initial specified value

Dimensions in mm(not to scale)

Side view dimensions: Sleeve, 5.0±0.3, 0.5±0.1, L max., 6±1.

Top view dimension: φD max.

Lead dimensions: 1.2±0.1, 0.8±0.1, 2.5±0.5, 3.5±0.5, 6±1.

PCB hole diameter: φ1.1±0.05 (Recommended PCB hole diameter)

(Unit : mm)

Case code	Size	
	D	L
A	13.5	7.5
B	21.5	8.0

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	Parts number	Case code	Mass (Reference value) (g)	Min. packaging q'ty (pcs)
-40 to +70	5.5	0.22	0.176 to 0.396	≤ 75	300 μA or less	EECF5R5U224N	A	2.6	200
		0.47	0.376 to 1.41	≤ 30	1 mA or less	EECF5R5U474N	B	7.9	100
		1.0	0.80 to 1.80	≤ 30	1 mA or less	EECF5R5U105N	B	8.1	100
		1.5	1.20 to 2.70	≤ 30	1 mA or less	EECF5R5U155N	B	8.1	100

*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".