Stacked Coin Type

Series: NF

**Features**
- Endurance: 70 °C 1000 h
- 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**

<table>
<thead>
<tr>
<th>Category</th>
<th>Temp. Range</th>
<th>Maximum Operating Voltage</th>
<th>Nominal Cap. Range</th>
</tr>
</thead>
<tbody>
<tr>
<td>Temp. Range</td>
<td>−25 °C to +70 °C</td>
<td>5.5 V.DC</td>
<td>0.22 F to 1.5 F</td>
</tr>
</tbody>
</table>

**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**

- 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)**

**Standard Products**

- Shaded part numbers have been discontinued since September 30, 2014 and we recommend alternate products for new design.
- Please consider more than 0.22 F.

<table>
<thead>
<tr>
<th>Maximum Operating Voltage (V.DC)</th>
<th>Capacitance (F)</th>
<th>Capacitance tolerance (F)</th>
<th>Internal resistance (Ω) at 1 kHz</th>
<th>Recommended discharge current</th>
<th>Parts number</th>
<th>Case code</th>
<th>Mass Reference value (g)</th>
<th>Min. Packaging Qty (pcs)</th>
</tr>
</thead>
<tbody>
<tr>
<td>5.5</td>
<td>0.1</td>
<td>0.080 to 0.180</td>
<td>≤75</td>
<td>300 μA or less</td>
<td>EECF5R5U104</td>
<td>A</td>
<td>–</td>
<td>200</td>
</tr>
<tr>
<td></td>
<td>0.22</td>
<td>0.176 to 0.396</td>
<td>≤75</td>
<td>300 μA or less</td>
<td>EECF5R5U224</td>
<td>A</td>
<td>2.6</td>
<td>200</td>
</tr>
<tr>
<td></td>
<td>0.47</td>
<td>0.376 to 1.41</td>
<td>≤30</td>
<td>1 mA or less</td>
<td>EECF5R5U474</td>
<td>B</td>
<td>7.9</td>
<td>100</td>
</tr>
<tr>
<td></td>
<td>1.0</td>
<td>0.80 to 1.80</td>
<td>≤30</td>
<td>1 mA or less</td>
<td>EECF5R5U105</td>
<td>B</td>
<td>8.1</td>
<td>100</td>
</tr>
<tr>
<td></td>
<td>1.5</td>
<td>1.20 to 2.70</td>
<td>≤30</td>
<td>1 mA or less</td>
<td>EECF5R5U155</td>
<td>B</td>
<td>8.1</td>
<td>100</td>
</tr>
</tbody>
</table>

**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.

02 Oct. 2014
Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

Panasonic:

EEC-F5R5U105  EEC-F5R5U155  EEC-F5R5U224  EEC-F5R5U474