

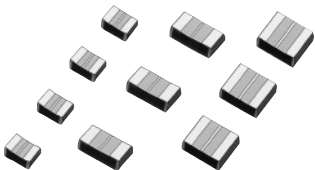
## Stacked Metallized Plastic Film Chip Capacitor

Type : **ECPU(A)**

Stacked dielectric and inner electrode with simple mold - less construction

### ■Features

- Low ESR
- Max. capacitance values 1.0  $\mu\text{F}$
- Smallest package size in film capacitors 3225/1.0  $\mu\text{F}$
- For reflow soldering
- RoHS directive compliant



### ■Recommended Applications

- Noise suppressor
- Coupling

### ■Explanation of Part Numbers

|              |   |                           |   |                |   |             |   |   |         |        |        |
|--------------|---|---------------------------|---|----------------|---|-------------|---|---|---------|--------|--------|
| 1            | 2 | 3                         | 4 | 5              | 6 | 7           | 8 | 9 | 10      | 11     | 12     |
| E            | C | P                         | U | 1              | C |             |   |   | M       | A      | 5      |
| Product code |   | Dielectric & construction |   | Rated voltage. |   | Capacitance |   |   | Cap.tol | Suffix | Suffix |
|              |   |                           |   | 1C 16 VDC      |   |             |   |   |         |        |        |
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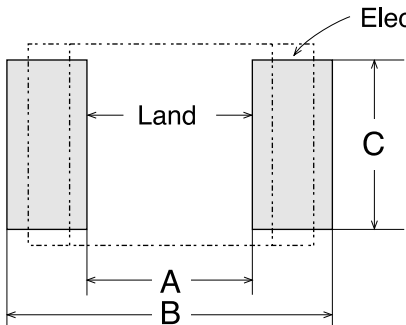
### ■Taping Specification for Automatic Mounting

Refer to the page of taping specifications.

### ■Rating, Dimensions & Quantity/Reel

| Part No.     | Cap.<br>( $\mu$ F). | Dimensions (mm) |      |     |           | Quantity |
|--------------|---------------------|-----------------|------|-----|-----------|----------|
|              |                     | L               | W    | H   | Size Code |          |
| ECPU1C104MA5 | 0.10                | 2.0             | 1.25 | 1.0 | J1        | 3000     |
| ECPU1C154MA5 | 0.15                | 3.2             | 1.6  | 0.8 | H1        |          |
| ECPU1C224MA5 | 0.22                | 3.2             | 1.6  | 0.8 | H1        |          |
| ECPU1C334MA5 | 0.33                | 3.2             | 1.6  | 1.0 | H2        |          |
| ECPU1C474MA5 | 0.47                | 3.2             | 1.6  | 1.4 | H3        | 2000     |
| ECPU1C684MA5 | 0.68                | 3.2             | 1.6  | 1.4 | H3        |          |
| ECPU1C105MA5 | 1.0                 | 3.2             | 2.5  | 1.4 | G2        |          |

### ■Recommended for Land Dimensions (mm)



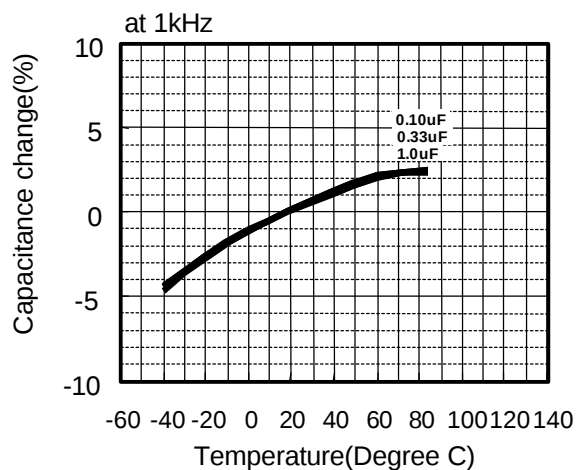
| Size Code | Land dimensions for reflow soldering |     |     |
|-----------|--------------------------------------|-----|-----|
|           | A                                    | B   | C   |
| J1        | 0.8                                  | 2.4 | 1.1 |
| H1        | 1.8                                  | 3.6 | 1.4 |
| H2        | 1.8                                  | 3.6 | 1.4 |
| H3        | 1.8                                  | 3.6 | 1.4 |
| G2        | 1.8                                  | 3.6 | 2.3 |

✱ It is not warrantable that you can mount the capacitor without trouble under all the mounting condition when "Recommender for Land dimensions" is adopted.

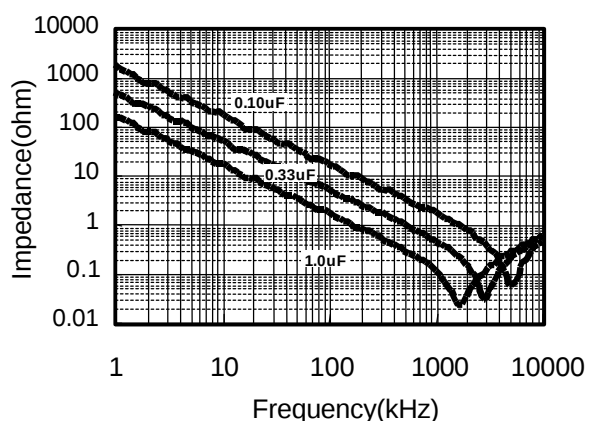
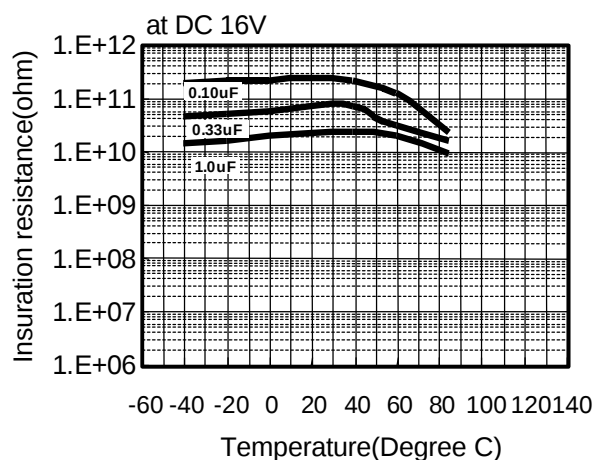
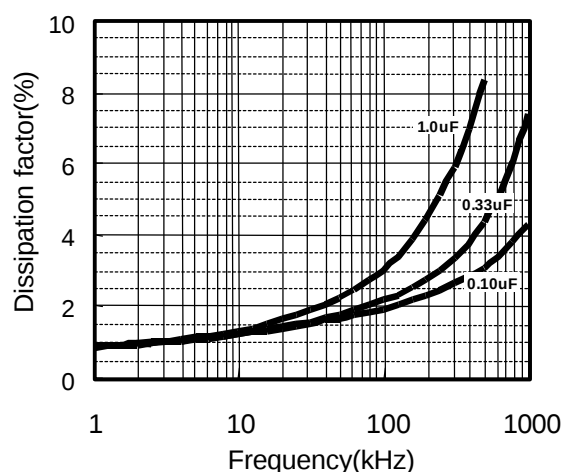
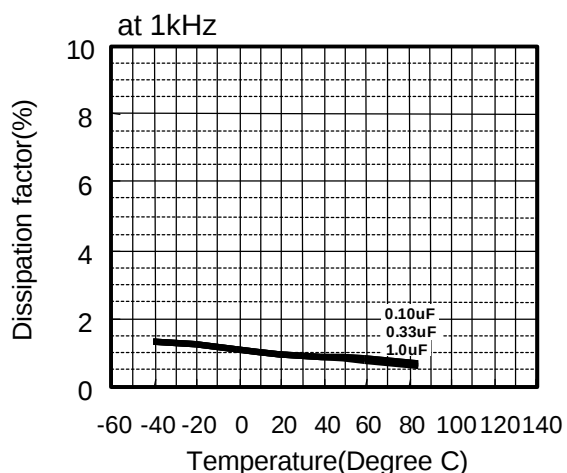
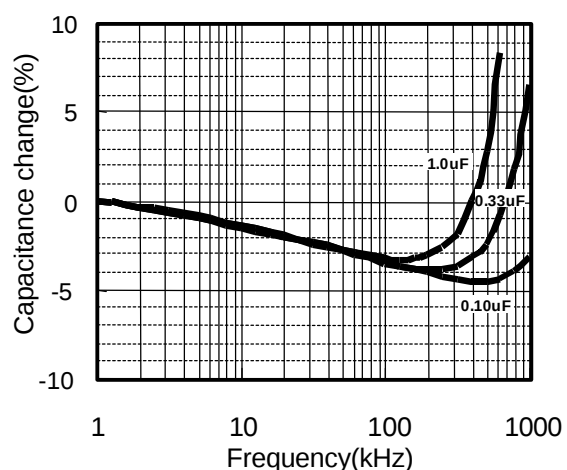
## ECPU (A) Type DC16V series (Stacked Metallized Film)

### Electrical Characteristics <Typical Data >

**Temperature Characteristics**

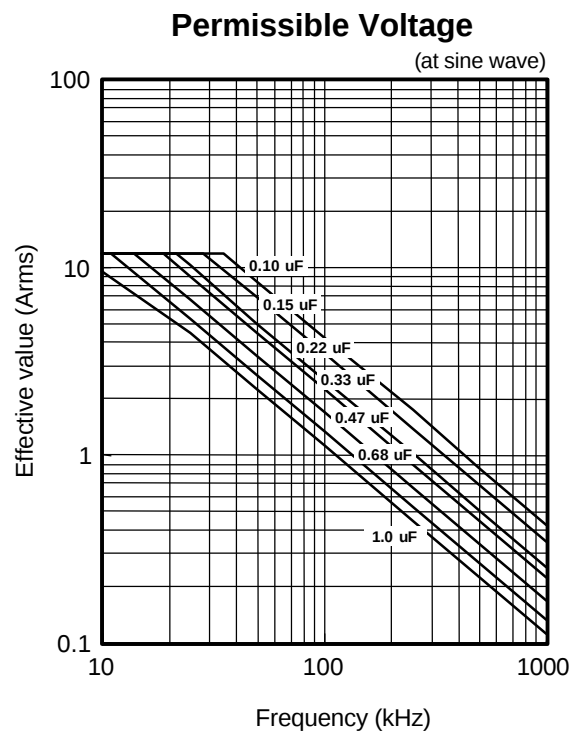
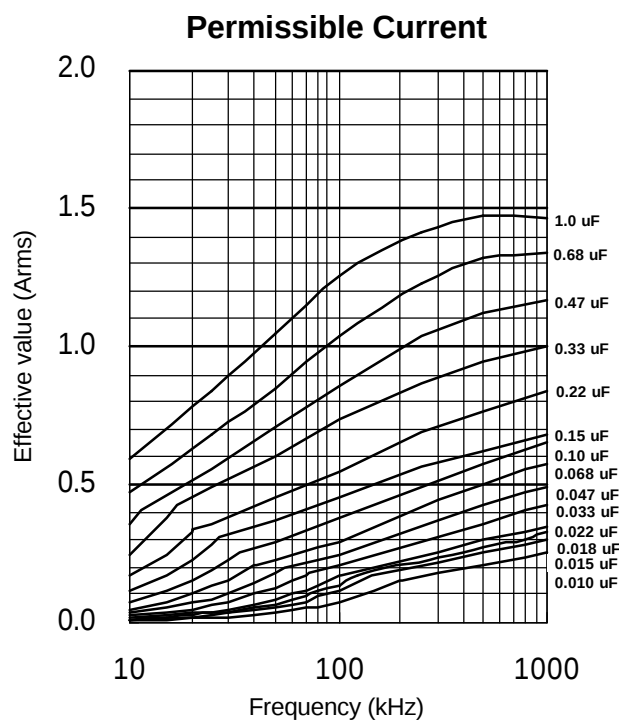


**Frequency Characteristics**



## ECPU (A) Type DC16V series (Stacked Metallized Film)

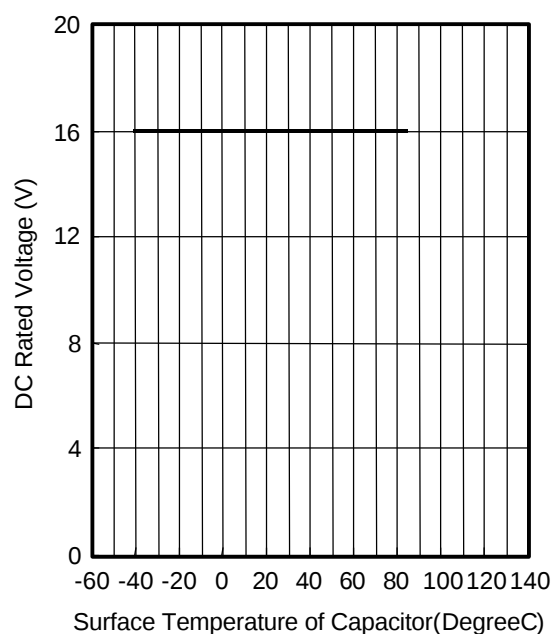
### Applicable Specifications



### Pulse Handling Capability (dv/dt) (Max 10000cycles)

| Rating Voltage | Capacitance Value(uF) | Code | dv/dt(V/us) | Current(I <sub>0-P</sub> ) (A) |
|----------------|-----------------------|------|-------------|--------------------------------|
| DC 16V         | 0.10                  | 104  | 19          | 1.9                            |
|                | 0.15                  | 154  | 15          | 2.3                            |
|                | 0.22                  | 224  | 13          | 2.9                            |
|                | 0.33                  | 334  | 10          | 3.3                            |
|                | 0.47                  | 474  | 7           | 3.3                            |
|                | 0.68                  | 684  | 5           | 3.4                            |
|                | 1.0                   | 105  | 3           | 3.0                            |

### Voltage Derating by Temperature



\* Please consult Panasonic if your condition exceeds the above spec.

\*Permissible voltage graph is the case of sine waveform. When you use this product, peak voltage must not exceed DC rated voltage.

\*The current(I<sub>0-P</sub>) value is calculated using nominal capacitance.