

# PLASTIC FILM CAPACITORS



Metallized Polypropylene Film AC Power Capacitor

series

- Compliant to the RoHS directive (2011/65/EU).

## Specifications

| Item                            | Performance Characteristics                                                                                               |
|---------------------------------|---------------------------------------------------------------------------------------------------------------------------|
| Maximum permissible temperature | +85°C (Z)                                                                                                                 |
| Minimum ambient temperature     | −25°C (B)                                                                                                                 |
| Rated Voltage Range             | 200 to 400VAC                                                                                                             |
| Rated Capacitance Range         | 1.0 to 50μF                                                                                                               |
| Capacitance Tolerance           | +10 to −5%                                                                                                                |
| Dielectric Loss Tangent         | 0.12% or less (at 20°C, 50 / 60Hz 200VAC)                                                                                 |
| Withstand Voltage               | Between Terminals : Rated Voltage (VAC) × 175% 10secs.<br>Between Terminals connected together and case : 2000VAC 60secs. |
| Insulation Resistance           | Between Terminals connected together and case :<br>1000 MΩ or more (at 500VDC)                                            |
| Encapsulation                   | Flame-retardant epoxy cased, Resin filled                                                                                 |
| Current duration class          | 40D (40,000h)                                                                                                             |
| Safety Mechanism                | Non-included                                                                                                              |



## Drawing

Please refer to page 398.

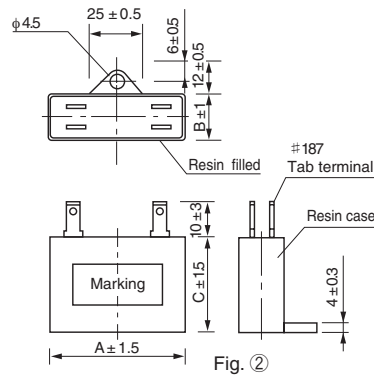
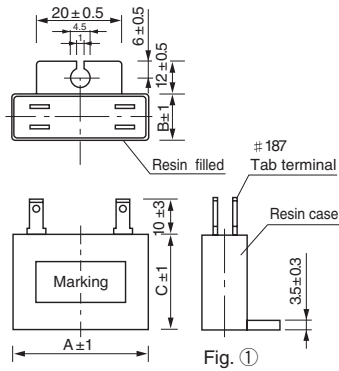
## Dimensions

Unit : mm

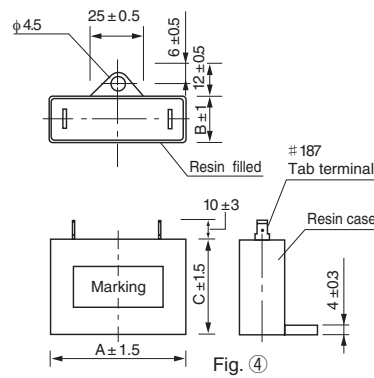
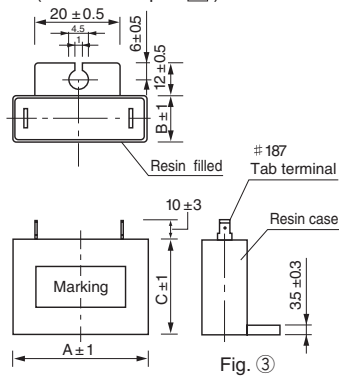
| (μF)<br>Cap. |     | V (Code)<br>Size | 200VAC (2D) |      |   | Fig.     | 250VAC (2E) |      |      | Fig.     | 400VAC (2G) |      |      | Fig.     |
|--------------|-----|------------------|-------------|------|---|----------|-------------|------|------|----------|-------------|------|------|----------|
|              |     |                  | A           | B    | C |          | A           | B    | C    |          | A           | B    | C    |          |
| 1.0          | 105 | —                | —           | —    | — | ① ③<br>⑤ | —           | —    | —    | ① ③<br>⑤ | 37.0        | 11.5 | 25.0 | ① ③<br>⑤ |
| 1.5          | 155 | —                | —           | —    | — |          | —           | —    | —    |          | 37.0        | 11.5 | 25.0 |          |
| 2.0          | 205 | 37.0             | 11.5        | 25.0 | — |          | 37.0        | 11.5 | 25.0 |          | 37.0        | 13.5 | 27.0 |          |
| 2.5          | 255 | 37.0             | 11.5        | 25.0 | — |          | 37.0        | 11.5 | 25.0 |          | 37.0        | 15.5 | 29.0 |          |
| 3.0          | 305 | 37.0             | 11.5        | 25.0 | — |          | 37.0        | 11.5 | 25.0 |          | 37.0        | 15.5 | 29.0 |          |
| 3.5          | 355 | 37.0             | 11.5        | 25.0 | — |          | 37.0        | 11.5 | 25.0 |          | 37.0        | 17.5 | 31.0 |          |
| 4.0          | 405 | 37.0             | 11.5        | 25.0 | — |          | 37.0        | 11.5 | 25.0 |          | 37.0        | 19.5 | 33.0 |          |
| 4.5          | 455 | 37.0             | 13.5        | 27.0 | — |          | 37.0        | 13.5 | 27.0 |          | 37.0        | 19.5 | 33.0 |          |
| 5.0          | 505 | 37.0             | 13.5        | 27.0 | — |          | 37.0        | 13.5 | 27.0 |          | 37.0        | 21.5 | 35.0 |          |
| 6.0          | 605 | 37.0             | 13.5        | 27.0 | — |          | 37.0        | 13.5 | 27.0 |          | 37.0        | 24.0 | 37.0 |          |
| 7.0          | 705 | 37.0             | 15.5        | 29.0 | — | ② ④      | 37.0        | 15.5 | 29.0 | ② ④      | 37.0        | 24.0 | 37.0 | ② ④      |
| 8.0          | 805 | 37.0             | 17.5        | 31.0 | — |          | 37.0        | 17.5 | 31.0 |          | 58.0        | 26.0 | 40.0 |          |
| 10.0         | 106 | 37.0             | 19.5        | 33.0 | — |          | 37.0        | 19.5 | 33.0 |          | 58.0        | 26.0 | 40.0 |          |
| 12.0         | 126 | 37.0             | 21.5        | 35.0 | — |          | 37.0        | 21.5 | 35.0 |          | 58.0        | 26.0 | 40.0 |          |
| 14.0         | 146 | 37.0             | 24.0        | 37.0 | — |          | 37.0        | 24.0 | 37.0 |          | 58.0        | 30.0 | 44.0 |          |
| 15.0         | 156 | 37.0             | 24.0        | 37.0 | — |          | 37.0        | 24.0 | 37.0 |          | 58.0        | 30.0 | 44.0 |          |
| 16.0         | 166 | 37.0             | 24.0        | 37.0 | — |          | 37.0        | 24.0 | 37.0 |          | 58.0        | 30.0 | 44.0 |          |
| 18.0         | 186 | 58.0             | 26.0        | 40.0 | — |          | 58.0        | 26.0 | 40.0 |          | 58.0        | 30.0 | 44.0 |          |
| 20.0         | 206 | 58.0             | 26.0        | 40.0 | — |          | 58.0        | 26.0 | 40.0 |          | 58.0        | 34.0 | 49.0 |          |
| 22.0         | 226 | 58.0             | 26.0        | 40.0 | — |          | 58.0        | 26.0 | 40.0 |          |             |      |      |          |
| 25.0         | 256 | 58.0             | 26.0        | 40.0 | — |          | 58.0        | 26.0 | 40.0 |          |             |      |      |          |
| 30.0         | 306 | 58.0             | 26.0        | 40.0 | — |          | 58.0        | 26.0 | 40.0 |          |             |      |      |          |
| 40.0         | 406 | 58.0             | 30.0        | 44.0 | — |          | 58.0        | 30.0 | 44.0 |          |             |      |      |          |
| 50.0         | 506 | 58.0             | 34.0        | 49.0 | — |          | 58.0        | 34.0 | 49.0 |          |             |      |      |          |

## Drawing

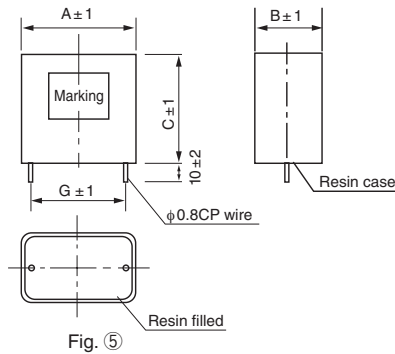
- Tab terminal 2 (Terminal shape : )



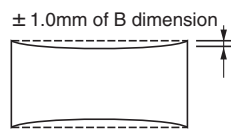
- Tab terminal 1 (Terminal shape : )



- Pin terminal (Terminal shape : )



Remarks : 1) Dimension of case bottom is expressed by A and B.  
2) Dimension B of case top shall be  $\pm 1.0\text{mm}$  as shown below.



3) In case of pin terminal product, cased dimension A is only 37mm.

## Dimensions

| Case size (mm) |      |        | Case size code<br>( ) for Pin terminal                                                                                                                                  | Terminal Shape  | Terminal Shape  | Terminal Shape  |     |
|----------------|------|--------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------|-----|
| A              | B    | C      |                                                                                                                                                                         | Fig                                                                                                | Fig                                                                                                  | Lead pitch G (mm)                                                                                    | Fig |
| 37.0           | 11.5 | 25.0   |                                                                                      | ①                                                                                                  | ③                                                                                                    | 34.2                                                                                                 | ⑤   |
| 37.0           | 13.5 | 27.0 ※ |   |                                                                                                    |                                                                                                      |                                                                                                      |     |
| 37.0           | 15.5 | 29.0   |   |                                                                                                    |                                                                                                      |                                                                                                      |     |
| 37.0           | 17.5 | 31.0   |   |                                                                                                    |                                                                                                      |                                                                                                      |     |
| 37.0           | 19.5 | 33.0   |                                                                                      |                                                                                                    |                                                                                                      |                                                                                                      |     |
| 37.0           | 21.5 | 35.0   |                                                                                      |                                                                                                    |                                                                                                      |                                                                                                      |     |
| 37.0           | 24.0 | 37.0   |                                                                                      |                                                                                                    |                                                                                                      |                                                                                                      |     |
| 58.0           | 26.0 | 40.0   |                                                                                      | ②                                                                                                  | ④                                                                                                    | —                                                                                                    | —   |
| 58.0           | 30.0 | 44.0   |                                                                                      |                                                                                                    |                                                                                                      |                                                                                                      |     |
| 58.0           | 34.0 | 49.0   |                                                                                      |                                                                                                    |                                                                                                      |                                                                                                      |     |

※ In case of pin terminal dimension will be 37.0 × 13.5 × 28.0mm. (Code : )  
 ※※ In case of pin terminal dimension will be 37.0 × 15.5 × 29.0mm. (Code : )  
 ※※※ In case of pin terminal dimension will be 37.0 × 17.5 × 31.0mm. (Code : )