

**EC**

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 400.

## Dimensions

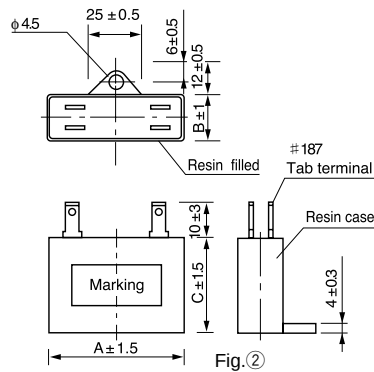
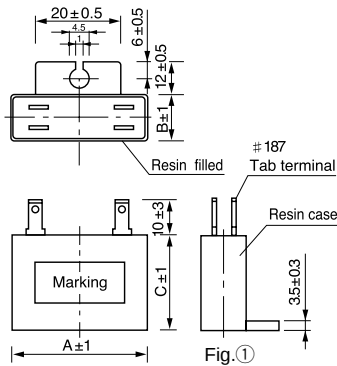
Unit : mm

| V (Code)<br>Size |      | 200VAC (2D) |      |      |          | 250VAC (2E) |      |      |          | 400VAC (2G) |      |      |          |
|------------------|------|-------------|------|------|----------|-------------|------|------|----------|-------------|------|------|----------|
| (μF)<br>Cap.     | Code | A           | B    | C    | Fig.     | A           | B    | C    | Fig.     | A           | B    | C    | Fig.     |
| 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 |          |             |      |      |          |

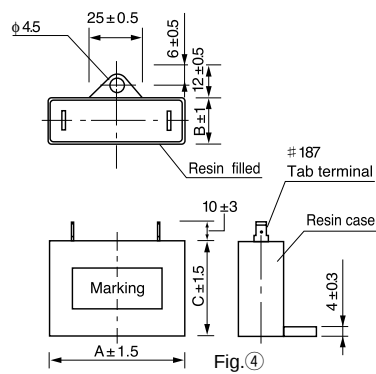
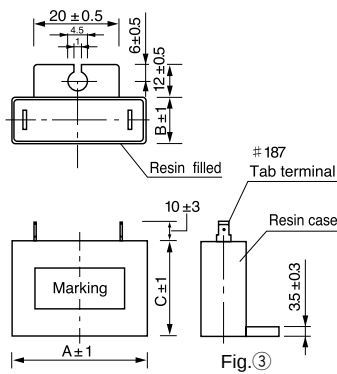
## EC series

### Drawing

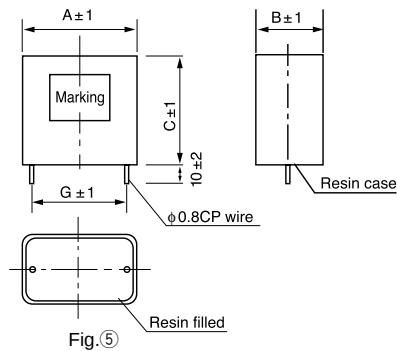
- Tab terminal 2 (Terminal shape :  )



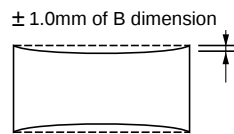
- Tab terminal 1 (Terminal shape :  )



- 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 : )