

=Equipped with a Safety Mechanism=  
Metallized Polyester/Polypropylene Film Capacitor

Type: **ECHAX**

Non-inductive construction, Flame-retardant epoxy resin dipped enclosure



#### ■ Features

- ◆ Excellent safety characteristics
- ◆ Flame-retardant epoxy resin coating
- ◆ Small and compact

#### ■ Recommended Applications

- ◆ Motor running
- ◆ Fluorescent lamp ballast

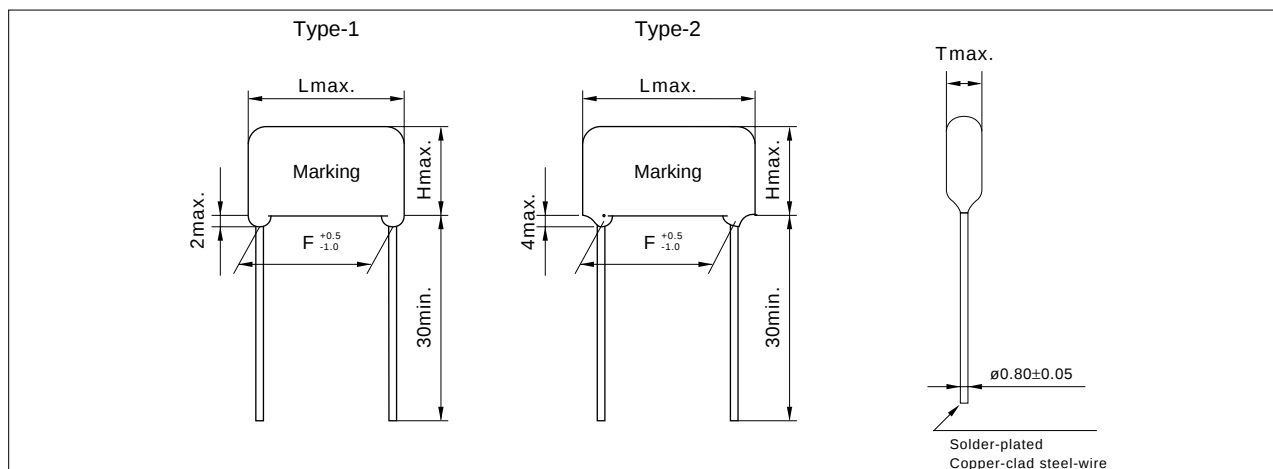
#### ■ Explanation of Part Numbers

| 1            | 2                         | 3        | 4             | 5 | 6           | 7 | 8 | 9        | 10       | 11       | 12 |
|--------------|---------------------------|----------|---------------|---|-------------|---|---|----------|----------|----------|----|
| <b>E</b>     | <b>C</b>                  | <b>H</b> | <b>A</b>      |   |             |   |   |          | <b>J</b> | <b>X</b> |    |
| Product code | Dielectric & construction |          | Rated voltage |   | Capacitance |   |   | Cap Tol. | Suffix   |          |    |

#### ■ Specifications

|                         |                                                                                                                      |
|-------------------------|----------------------------------------------------------------------------------------------------------------------|
| Permissible temp. range | -25 to +70°C                                                                                                         |
| Rated voltage           | 180VAC, 200VAC, 220VAC, 250VAC, 430VAC                                                                               |
| Capacitance range       | 0.5 to 6.0μF                                                                                                         |
| Capacitance tolerance   | ±5%(J)                                                                                                               |
| Dissipation factor      | 0.4%max. (20°C 50/60Hz)                                                                                              |
| Withstand voltage       | Between terminals : Rated volt. (V.AC)×175% 60s<br>Between terminals to enclosure : 2000VAC 60s                      |
| Insulation resistance   | Between terminals : 1000Ω · Fmin. (20°C 100VDC 60s)<br>Between terminals to enclosure : 1000MΩmin.(20°C 500 VDC 60s) |

#### ■ Dimensions in mm (not to scale)



## ■ Rating &amp; Dimensions

● Rated voltage : 180VAC

| Part No.    | Cap.<br>(μF) | Dimensions (mm)   |                   |                   |      | Type |
|-------------|--------------|-------------------|-------------------|-------------------|------|------|
|             |              | L <sup>max.</sup> | T <sup>max.</sup> | H <sup>max.</sup> | F    |      |
| ECHA18504JX | 0.5          | 26.5              | 7.5               | 16.5              | 22.5 | 1    |
| ECHA18604JX | 0.6          | 26.5              | 8.0               | 17.0              | 22.5 | 1    |
| ECHA18704JX | 0.7          | 26.5              | 8.5               | 17.5              | 22.5 | 1    |
| ECHA18804JX | 0.8          | 26.5              | 9.0               | 18.0              | 22.5 | 1    |
| ECHA18904JX | 0.9          | 26.5              | 9.5               | 18.5              | 22.5 | 1    |
| ECHA18105JX | 1.0          | 26.5              | 8.5               | 17.5              | 22.5 | 1    |
| ECHA18125JX | 1.2          | 26.5              | 9.0               | 18.0              | 22.5 | 1    |
| ECHA18155JX | 1.5          | 26.5              | 10.0              | 19.5              | 22.5 | 1    |
| ECHA18185JX | 1.8          | 26.5              | 11.0              | 20.5              | 22.5 | 1    |
| ECHA18205JX | 2.0          | 26.5              | 11.5              | 21.0              | 22.5 | 1    |
| ECHA18225JX | 2.2          | 26.5              | 12.0              | 21.5              | 22.5 | 1    |
| ECHA18255JX | 2.5          | 26.5              | 13.0              | 22.5              | 22.5 | 1    |
| ECHA18285JX | 2.8          | 26.5              | 13.5              | 23.0              | 22.5 | 1    |
| ECHA18305JX | 3.0          | 26.5              | 14.0              | 24.0              | 22.5 | 1    |
| ECHA18355JX | 3.5          | 31.5              | 13.5              | 23.0              | 27.5 | 1    |
| ECHA18405JX | 4.0          | 31.5              | 14.5              | 24.0              | 27.5 | 1    |
| ECHA18455JX | 4.5          | 31.5              | 15.5              | 25.0              | 27.5 | 1    |
| ECHA18505JX | 5.0          | 31.5              | 16.5              | 26.0              | 27.5 | 1    |
| ECHA18555JX | 5.5          | 37.0              | 15.5              | 25.0              | 32.5 | 1    |
| ECHA18605JX | 6.0          | 37.0              | 16.5              | 25.5              | 32.5 | 1    |

● Rated voltage : 200VAC

| Part No.    | Cap.<br>(μF) | Dimensions (mm)   |                   |                   |      | Type |
|-------------|--------------|-------------------|-------------------|-------------------|------|------|
|             |              | L <sup>max.</sup> | T <sup>max.</sup> | H <sup>max.</sup> | F    |      |
| ECHA20504JX | 0.5          | 26.5              | 7.5               | 16.5              | 22.5 | 1    |
| ECHA20604JX | 0.6          | 26.5              | 8.0               | 17.0              | 22.5 | 1    |
| ECHA20704JX | 0.7          | 26.5              | 8.5               | 17.5              | 22.5 | 1    |
| ECHA20804JX | 0.8          | 26.5              | 9.0               | 18.0              | 22.5 | 1    |
| ECHA20904JX | 0.9          | 26.5              | 9.5               | 18.5              | 22.5 | 1    |
| ECHA20105JX | 1.0          | 26.5              | 9.0               | 18.0              | 22.5 | 1    |
| ECHA20125JX | 1.2          | 26.5              | 10.0              | 19.5              | 22.5 | 1    |
| ECHA20155JX | 1.5          | 26.5              | 11.0              | 20.5              | 22.5 | 1    |
| ECHA20185JX | 1.8          | 26.5              | 12.0              | 21.5              | 22.5 | 1    |
| ECHA20205JX | 2.0          | 26.5              | 13.0              | 22.0              | 22.5 | 1    |
| ECHA20225JX | 2.2          | 26.5              | 13.5              | 23.0              | 22.5 | 1    |
| ECHA20255JX | 2.5          | 26.5              | 14.5              | 24.0              | 22.5 | 1    |
| ECHA20285JX | 2.8          | 31.5              | 13.5              | 22.5              | 27.5 | 1    |
| ECHA20305JX | 3.0          | 31.5              | 13.5              | 23.0              | 27.5 | 1    |
| ECHA20355JX | 3.5          | 31.5              | 15.5              | 24.5              | 27.5 | 1    |
| ECHA20405JX | 4.0          | 31.5              | 16.5              | 25.5              | 27.5 | 1    |
| ECHA20455JX | 4.5          | 37.0              | 15.5              | 25.0              | 32.5 | 1    |
| ECHA20505JX | 5.0          | 37.0              | 16.5              | 26.0              | 32.5 | 1    |
| ECHA20555JX | 5.5          | 37.0              | 17.0              | 26.5              | 32.5 | 1    |
| ECHA20605JX | 6.0          | 37.0              | 18.0              | 27.5              | 32.5 | 1    |

## ■ Rating &amp; Dimensions

● Rated voltage : 220VAC

| Part No.    | Cap.<br>( $\mu$ F) | Dimensions (mm)   |                   |                   |      | Type |
|-------------|--------------------|-------------------|-------------------|-------------------|------|------|
|             |                    | L <sup>max.</sup> | T <sup>max.</sup> | H <sup>max.</sup> | F    |      |
| ECHA22504JX | 0.5                | 26.5              | 8.0               | 17.0              | 22.5 | 1    |
| ECHA22604JX | 0.6                | 26.5              | 8.5               | 17.5              | 22.5 | 1    |
| ECHA22704JX | 0.7                | 26.5              | 9.0               | 18.0              | 22.5 | 1    |
| ECHA22804JX | 0.8                | 26.5              | 9.5               | 19.0              | 22.5 | 1    |
| ECHA22904JX | 0.9                | 26.5              | 10.5              | 19.5              | 22.5 | 1    |
| ECHA22105JX | 1.0                | 26.5              | 10.0              | 19.5              | 22.5 | 1    |
| ECHA22125JX | 1.2                | 26.5              | 11.0              | 20.5              | 22.5 | 1    |
| ECHA22155JX | 1.5                | 26.5              | 12.0              | 21.5              | 22.5 | 1    |
| ECHA22185JX | 1.8                | 26.5              | 13.5              | 22.5              | 22.5 | 1    |
| ECHA22205JX | 2.0                | 26.5              | 14.0              | 23.5              | 22.5 | 1    |
| ECHA22225JX | 2.2                | 31.5              | 13.0              | 22.0              | 27.5 | 1    |
| ECHA22255JX | 2.5                | 31.5              | 13.5              | 23.0              | 27.5 | 1    |
| ECHA22285JX | 2.8                | 31.5              | 14.5              | 24.5              | 27.5 | 1    |
| ECHA22305JX | 3.0                | 31.5              | 15.5              | 25.0              | 27.5 | 1    |
| ECHA22355JX | 3.5                | 31.5              | 16.5              | 26.0              | 27.5 | 1    |
| ECHA22405JX | 4.0                | 37.0              | 16.0              | 25.5              | 32.5 | 1    |
| ECHA22455JX | 4.5                | 37.0              | 17.0              | 26.5              | 32.5 | 1    |
| ECHA22505JX | 5.0                | 37.0              | 18.0              | 27.5              | 32.5 | 1    |
| ECHA22555JX | 5.5                | 37.0              | 19.0              | 28.0              | 32.5 | 1    |
| ECHA22605JX | 6.0                | 37.0              | 19.5              | 29.5              | 32.5 | 1    |

● Rated voltage : 250VAC

| Part No.    | Cap.<br>( $\mu$ F) | Dimensions (mm)   |                   |                   |      | Type |
|-------------|--------------------|-------------------|-------------------|-------------------|------|------|
|             |                    | L <sup>max.</sup> | T <sup>max.</sup> | H <sup>max.</sup> | F    |      |
| ECHA25504JX | 0.5                | 26.5              | 9.5               | 18.5              | 22.5 | 1    |
| ECHA25604JX | 0.6                | 26.5              | 10.5              | 19.5              | 22.5 | 1    |
| ECHA25704JX | 0.7                | 26.5              | 11.0              | 20.5              | 22.5 | 1    |
| ECHA25804JX | 0.8                | 26.5              | 12.0              | 21.0              | 22.5 | 1    |
| ECHA25904JX | 0.9                | 26.5              | 12.5              | 22.0              | 22.5 | 1    |
| ECHA25105JX | 1.0                | 26.5              | 12.0              | 21.5              | 22.5 | 1    |
| ECHA25125JX | 1.2                | 26.5              | 13.0              | 22.5              | 22.5 | 1    |
| ECHA25155JX | 1.5                | 31.5              | 13.0              | 22.0              | 27.5 | 1    |
| ECHA25185JX | 1.8                | 31.5              | 14.0              | 23.5              | 27.5 | 1    |
| ECHA25205JX | 2.0                | 31.5              | 15.0              | 24.5              | 27.5 | 1    |
| ECHA25225JX | 2.2                | 31.5              | 16.0              | 25.5              | 27.5 | 1    |
| ECHA25255JX | 2.5                | 31.5              | 17.0              | 26.5              | 27.5 | 1    |
| ECHA25285JX | 2.8                | 37.0              | 16.0              | 25.5              | 32.5 | 1    |
| ECHA25305JX | 3.0                | 37.0              | 16.5              | 26.0              | 32.5 | 1    |
| ECHA25355JX | 3.5                | 37.0              | 18.0              | 27.5              | 32.5 | 1    |
| ECHA25405JX | 4.0                | 37.0              | 19.5              | 29.0              | 32.5 | 1    |
| ECHA25455JX | 4.5                | 40.5              | 19.0              | 29.0              | 30.0 | 2    |
| ECHA25505JX | 5.0                | 40.5              | 20.0              | 30.0              | 30.0 | 2    |
| ECHA25555JX | 5.5                | 40.5              | 21.0              | 31.0              | 30.0 | 2    |
| ECHA25605JX | 6.0                | 40.5              | 22.0              | 32.0              | 30.0 | 2    |

## ■ Rating &amp; Dimensions

● Rated voltage : 430VAC

| Part No.    | Cap.<br>( $\mu$ F) | Dimensions (mm)   |                   |                   |      | Type |
|-------------|--------------------|-------------------|-------------------|-------------------|------|------|
|             |                    | L <sub>max.</sub> | T <sub>max.</sub> | H <sub>max.</sub> | F    |      |
| ECHA43504JX | 0.5                | 31.5              | 13.5              | 23.0              | 27.5 | 1    |
| ECHA43604JX | 0.6                | 31.5              | 15.5              | 25.0              | 27.5 | 1    |
| ECHA43704JX | 0.7                | 31.5              | 16.5              | 26.0              | 27.5 | 1    |
| ECHA43804JX | 0.8                | 37.0              | 15.5              | 25.0              | 32.5 | 1    |
| ECHA43904JX | 0.9                | 37.0              | 16.5              | 26.0              | 32.5 | 1    |
| ECHA43105JX | 1.0                | 37.0              | 17.5              | 27.0              | 32.5 | 1    |
| ECHA43125JX | 1.2                | 37.0              | 19.0              | 28.5              | 32.5 | 1    |
| ECHA43155JX | 1.5                | 40.5              | 20.0              | 29.5              | 30.0 | 2    |
| ECHA43185JX | 1.8                | 45.5              | 20.0              | 30.0              | 35.0 | 2    |
| ECHA43205JX | 2.0                | 45.5              | 21.0              | 31.0              | 35.0 | 2    |
| ECHA43225JX | 2.2                | 45.5              | 22.0              | 32.0              | 35.0 | 2    |
| ECHA43255JX | 2.5                | 45.5              | 23.5              | 33.5              | 35.0 | 2    |