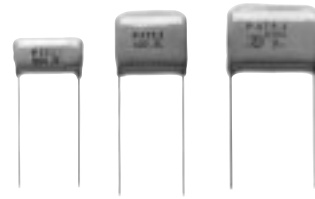


Polypropylene Film Capacitor

Type: **ECQP[U]**

Non-inductive construction using Polypropylene film with flame retardant epoxy resin coating



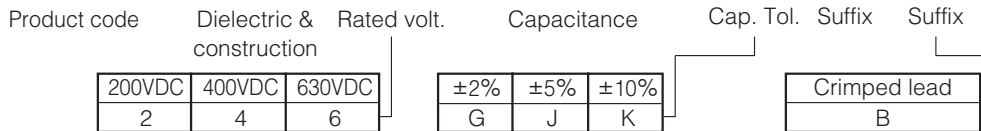
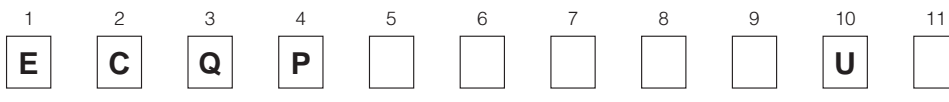
■Features

- Low loss and excellent frequency characteristics
- Excellent temperature characteristics
- High insulation resistance

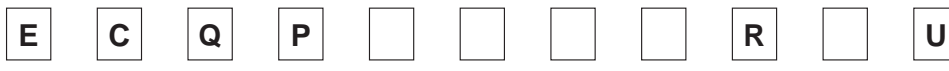
■Recommended Applications

- High frequency and high current circuits
- General purpose circuit

■Explanation of Part Numbers



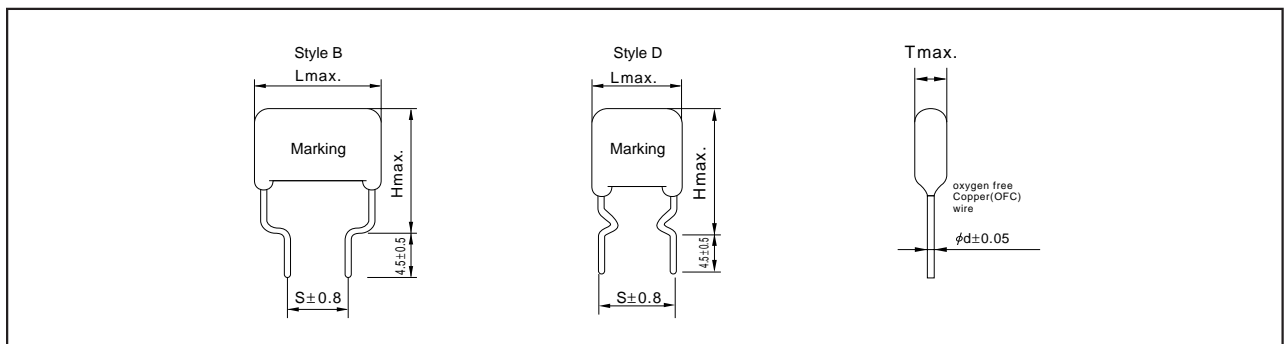
■Explanation of Part Number for Odd Size Taping



■Specifications

| | |
|-----------------------|---|
| Category temp. range | -40 to + 85°C(105°C) (Derating of rated voltage at more than 85°C. see page 7) |
| Rated voltage | 200VDC, 400VDC, 630VDC (Derating is required according to cap. value. see page 7) |
| Capacitance range | 0.001 to 0.47μF |
| Capacitance tolerance | ±2%(G), ±5%(J), ±10%(K) |
| Dissipation factor | 0.1%max. (20°C, 1kHz) |
| Withstand voltage | Between terminals : Rated volt.(VDC)×250% 1 to 5s |
| Insulation resistance | C≤0.33μF : 45000MΩmin. C>0.33μF : 15000MΩ · μFmin. (20°C, 100VDC 60s) |

■Dimensions in mm(not to scale)

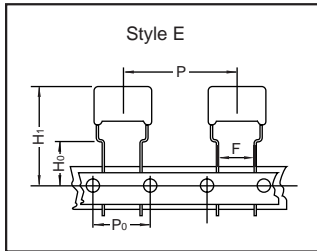


■ Packaging Specifications for Bulk Package

Packing quantity: 100pcs./bag

■ Taping Specifications for Automatic Insertion

● Taping style



* See page 22 for Taping dimensions

● Packaging Specifications

| Type | Rated volt. | Cap. range (μF) | Taping style | | | | | Packing | |
|----------|-------------|-----------------|--------------|----|---|---|---|---------|------|
| | | | AD | AS | B | C | D | | E |
| ECQP (U) | 200VDC | 0.015 to 0.068 | | | | | | ○ | Ammo |
| | 400VDC | 0.0082 to 0.15 | | | | | | ○ | Ammo |
| | 630VDC | 0.001 to 0.027 | | | | | | ○ | Ammo |

● Lead Spacing

| Style | Lead Spacing |
|-------|--------------|
| E | 7.5mm |

* See the column "Rating, Dimensions & Quantity Box" for packing quantity.

■ Rating, Dimensions & Quantity/Ammo Box

● Rated voltage : 200VDC, Capacitance tolerance : ±2%(G), ±5%(J), ±10%(K)

| Part No. | Cap. (μF) | Dimensions (mm) | | | | | Quantity Ammo |
|---------------|-----------|-------------------|-------------------|-------------------|------|------|------------------|
| | | L _{max.} | T _{max.} | H _{max.} | S | ød | |
| ECQP2153□U() | 0.015 | 14.5 | 6.0 | 16.0 | 10.0 | 0.60 | 500 |
| ECQP2183□U() | 0.018 | 14.5 | 6.0 | 16.5 | 10.0 | 0.60 | |
| ECQP2223□U() | 0.022 | 19.5 | 5.5 | 15.5 | 10.0 | 0.60 | |
| ECQP2273□U() | 0.027 | 19.5 | 6.0 | 16.0 | 10.0 | 0.60 | |
| ECQP2333□U() | 0.033 | 19.5 | 6.0 | 17.4 | 10.0 | 0.60 | |
| ECQP2393□U() | 0.039 | 19.5 | 6.0 | 17.8 | 10.0 | 0.60 | |
| ECQP2473□U() | 0.047 | 19.5 | 6.0 | 19.4 | 10.0 | 0.60 | |
| ECQP2563□U() | 0.056 | 19.5 | 6.5 | 19.8 | 15.0 | 0.60 | |
| ECQP2683□U() | 0.068 | 19.5 | 7.0 | 20.4 | 15.0 | 0.60 | |
| ECQP2823□U() | 0.082 | 24.5 | 6.0 | 20.8 | 15.0 | 0.80 | |
| ECQP2104□U() | 0.1 | 24.5 | 6.5 | 21.2 | 15.0 | 0.80 | — |
| ECQP2124□U() | 0.12 | 24.5 | 7.0 | 21.8 | 15.0 | 0.80 | |
| ECQP2154□U() | 0.15 | 24.5 | 7.5 | 25.0 | 20.0 | 0.80 | |
| ECQP2184□U() | 0.18 | 24.5 | 8.5 | 25.8 | 20.0 | 0.80 | |
| ECQP2224□U() | 0.22 | 24.5 | 9.0 | 26.6 | 20.0 | 0.80 | |
| ECQP2274□U() | 0.27 | 24.5 | 10.0 | 27.6 | 20.0 | 0.80 | |
| ECQP2334□U() | 0.33 | 24.5 | 11.0 | 28.6 | 20.0 | 0.80 | |
| ECQP2394□U() | 0.39 | 24.5 | 12.0 | 29.6 | 20.0 | 0.80 | |
| ECQP2474□U() | 0.47 | 24.5 | 13.5 | 31.0 | 20.0 | 0.80 | |

↑ Suffix for lead crimped or taped type.
 ↑ Cap. tol. code

StyleD: 0.015 to 0.018, 0.056 to 0.068, 0.15 to 0.47 μF
 StyleB: 0.022 to 0.047, 0.082 to 0.12 μF

* Please consult us for straight lead wire type.

■ Rating, Dimensions & Quantity/Ammo Box

● Rated voltage : 400VDC, Capacitance tolerance : ±2%(G), ±5%(J), ±10%(K)

| Part No. | Cap. (μF) | Dimensions (mm) | | | | | Quantity |
|---------------|--------------|-------------------|-------------------|-------------------|------|------|----------|
| | | L _{max.} | T _{max.} | H _{max.} | S | ød | Ammo |
| ECQP4822□U() | 0.0082 | 19.5 | 6.0 | 16.0 | 10.0 | 0.60 | 500 |
| ECQP4103□U() | 0.01 | 19.5 | 6.5 | 16.5 | 10.0 | 0.60 | |
| ECQP4123□U() | 0.012 | 19.5 | 6.5 | 18.5 | 10.0 | 0.60 | |
| ECQP4153□U() | 0.015 | 19.5 | 6.0 | 18.5 | 10.0 | 0.60 | |
| ECQP4183□U() | 0.018 | 19.5 | 6.0 | 19.0 | 10.0 | 0.60 | |
| ECQP4223□U() | 0.022 | 19.5 | 6.0 | 19.4 | 10.0 | 0.60 | |
| ECQP4273□U() | 0.027 | 19.5 | 6.5 | 20.0 | 10.0 | 0.60 | |
| ECQP4333□U() | 0.033 | 19.5 | 7.0 | 21.8 | 15.0 | 0.60 | |
| ECQP4393□U() | 0.039 | 19.5 | 7.5 | 22.8 | 15.0 | 0.60 | |
| ECQP4473□U() | 0.047 | 19.5 | 8.0 | 23.4 | 15.0 | 0.60 | |
| ECQP4563□U() | 0.056 | 24.5 | 7.0 | 22.0 | 15.0 | 0.80 | 400 |
| ECQP4683□U() | 0.068 | 24.5 | 7.5 | 23.0 | 15.0 | 0.80 | 400 |
| ECQP4823□U() | 0.082 | 24.5 | 8.5 | 23.8 | 15.0 | 0.80 | |
| ECQP4104□U() | 0.1 | 24.5 | 9.0 | 26.6 | 20.0 | 0.80 | 300 |
| ECQP4124□U() | 0.12 | 24.5 | 10.0 | 27.4 | 20.0 | 0.80 | |
| ECQP4154□U() | 0.15 | 24.5 | 11.0 | 28.6 | 20.0 | 0.80 | |
| ECQP4184□U() | 0.18 | 29.5 | 10.5 | 26.0 | 20.0 | 0.80 | — |
| ECQP4224□U() | 0.22 | 29.5 | 11.5 | 27.0 | 20.0 | 0.80 | |
| ECQP4274□U() | 0.27 | 29.5 | 13.0 | 28.4 | 20.0 | 0.80 | |
| ECQP4334□U() | 0.33 | 29.5 | 15.0 | 29.8 | 20.0 | 0.80 | |
| ECQP4394□U() | 0.39 | 35.0 | 15.0 | 30.0 | 20.0 | 0.80 | |
| ECQP4474□U() | 0.47 | 35.0 | 16.5 | 31.4 | 20.0 | 0.80 | |

StyleD: 0.033 to 0.047, 0.1 to 0.15 μF
 StyleB: 0.0082 to 0.027, 0.056 to 0.082, 0.18 to 0.47 μF

● Rated voltage : 630VDC, Capacitance tolerance : ±2%(G), ±5%(J), ±10%(K)

| Part No. | Cap. (μF) | Dimensions (mm) | | | | | Quantity |
|---------------|--------------|-------------------|-------------------|-------------------|------|------|----------|
| | | L _{max.} | T _{max.} | H _{max.} | S | ød | Ammo |
| ECQP6102□U() | 0.001 | 14.5 | 5.0 | 15.5 | 10.0 | 0.60 | 500 |
| ECQP6122□U() | 0.0012 | 14.5 | 5.5 | 15.5 | 10.0 | 0.60 | |
| ECQP6152□U() | 0.0015 | 14.5 | 5.5 | 15.5 | 10.0 | 0.60 | |
| ECQP6182□U() | 0.0018 | 14.5 | 5.5 | 15.5 | 10.0 | 0.60 | |
| ECQP6222□U() | 0.0022 | 14.5 | 5.5 | 15.5 | 10.0 | 0.60 | |
| ECQP6272□U() | 0.0027 | 14.5 | 5.5 | 16.0 | 10.0 | 0.60 | |
| ECQP6332□U() | 0.0033 | 14.5 | 6.0 | 16.5 | 10.0 | 0.60 | |
| ECQP6392□U() | 0.0039 | 14.5 | 6.0 | 18.5 | 10.0 | 0.60 | |
| ECQP6472□U() | 0.0047 | 14.5 | 6.5 | 18.5 | 10.0 | 0.60 | |
| ECQP6562□U() | 0.0056 | 14.5 | 7.0 | 19.0 | 10.0 | 0.60 | |
| ECQP6682□U() | 0.0068 | 19.5 | 5.5 | 18.6 | 10.0 | 0.60 | |
| ECQP6822□U() | 0.0082 | 19.5 | 6.0 | 19.0 | 10.0 | 0.60 | |
| ECQP6103□U() | 0.01 | 19.5 | 6.0 | 19.4 | 10.0 | 0.60 | 400 |
| ECQP6123□U() | 0.012 | 19.5 | 6.5 | 19.8 | 10.0 | 0.60 | |
| ECQP6153□U() | 0.015 | 19.5 | 7.0 | 20.4 | 15.0 | 0.60 | |
| ECQP6183□U() | 0.018 | 19.5 | 7.0 | 22.6 | 15.0 | 0.60 | |
| ECQP6223□U() | 0.022 | 19.5 | 8.0 | 23.4 | 15.0 | 0.60 | |
| ECQP6273□U() | 0.027 | 19.5 | 8.5 | 24.2 | 15.0 | 0.60 | |
| ECQP6333□U() | 0.033 | 24.5 | 8.0 | 23.2 | 15.0 | 0.80 | |
| ECQP6393□U() | 0.039 | 24.5 | 8.5 | 23.8 | 15.0 | 0.80 | |
| ECQP6473□U() | 0.047 | 24.5 | 9.0 | 24.6 | 15.0 | 0.80 | |
| ECQP6563□U() | 0.056 | 24.5 | 10.0 | 27.4 | 20.0 | 0.80 | |
| ECQP6683□U() | 0.068 | 24.5 | 11.0 | 28.4 | 20.0 | 0.80 | — |
| ECQP6823□U() | 0.082 | 29.5 | 10.5 | 25.6 | 20.0 | 0.80 | |
| ECQP6104□U() | 0.1 | 29.5 | 11.5 | 26.8 | 20.0 | 0.80 | |

— Suffix for lead crimped or taped type.

□ Cap. tol. code

StyleD: 0.001 to 0.0056, 0.015 to 0.027, 0.056 to 0.068 μF
 StyleB: 0.0068 to 0.012, 0.033 to 0.047, 0.082 to 0.1 μF

* Please consult us for straight lead wire type.