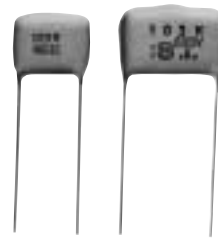


Polyester Film Capacitor

Type: **ECQM**

Designed for application where high density insertion of components is required.



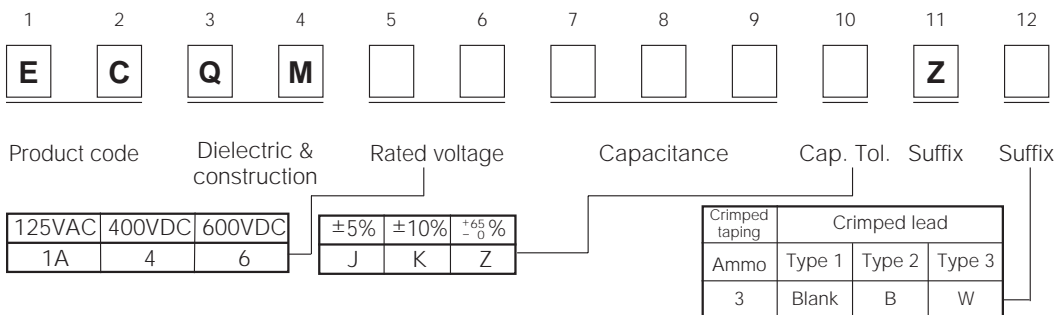
■ Features

- ◆ Non-inductive construction
- ◆ Excellent moisture resistance

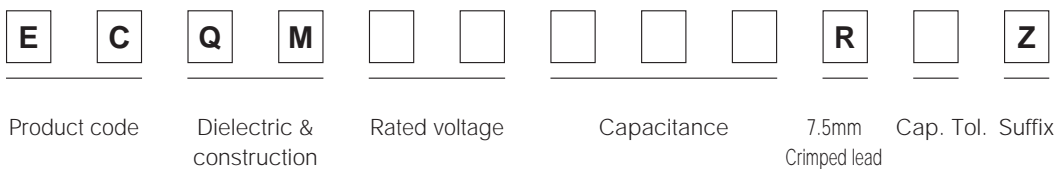
■ Recommended Applications

- ◆ General purpose usage
- ◆ Noise suppression for lighting products

■ Explanation of Part Numbers



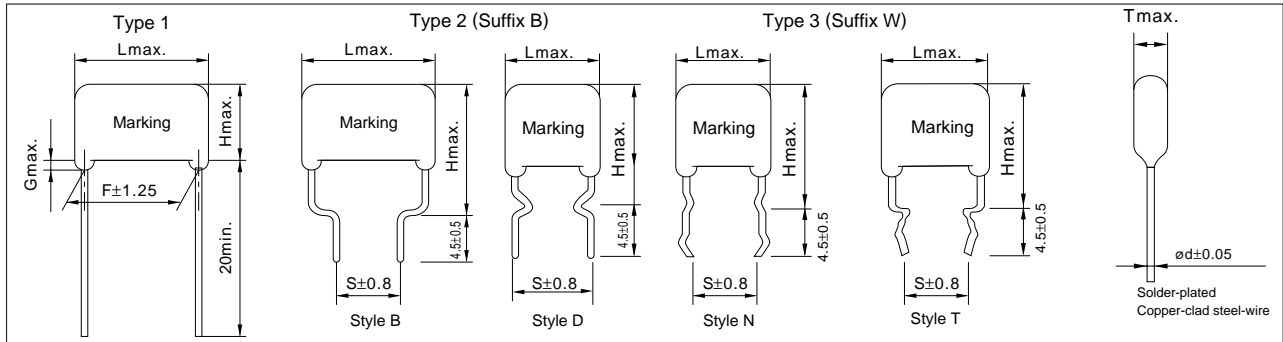
● Explanation of Part Number for Odd Size Taping



■ Specifications

| | |
|-----------------------|--|
| Category temp. range | -40 to +85°C |
| Rated voltage | 400VDC, 600VDC, 125VAC |
| Capacitance range | 0.001 to 0.47μF |
| Capacitance tolerance | ±5%(J), ±10%(K), +65% _{-0%} (Z) |
| Dissipation factor | 1.0%max.(20°C, 1kHz) |
| Withstand voltage | Between terminals : Rated volt.(VDC)×250% 1 to 5s 125VAC×230% 60s(For type 1A only) Between terminals to enclosure : 1000VAC 60s(For type 1A only) |
| Insulation resistance | C ≤ 0.33μF : 30000MΩ min. (20°C, 100VDC 60s) C > 0.33μF : 10000MΩ · 0μFmin. 2000MΩmin. (20°C, 500VDC 60s)(For type 1A only) |

■Dimensions in mm(not to scale)

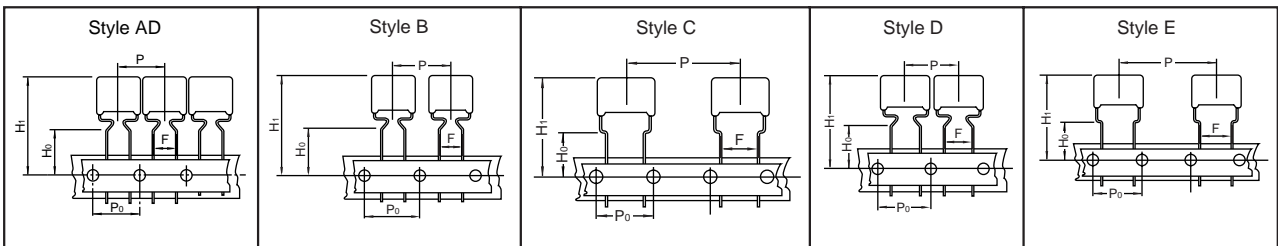


■Packaging Specifications for Bulk Package

Packing quantity : 100pcs./bag

■Taping Specifications for Automatic Insertion

●Taping style



●Packaging Specifications

| Type | Rated volt. | Cap.range (μF) | Taping style | | | | | Packing |
|------|-------------|-----------------|--------------|----|---|---|---|---------|
| | | | AD | AS | B | C | D | |
| ECQM | 400VDC | 0.001 to 0.0039 | ○ | | | | | Ammo |
| | | 0.0047 to 0.01 | | | ○ | | | Ammo |
| | | 0.0027 to 0.01 | | | | | ○ | Ammo |
| | | 0.012 to 0.068 | | | | | | ○ |
| | 600VDC | 0.001 to 0.0015 | ○ | | | | | Ammo |
| | | 0.0022 to 0.022 | | | | ○ | | Ammo |

●Lead Spacing

| Style | Lead Spacing |
|-------|--------------|
| AD | 5.0mm |
| B | 5.0mm |
| C | 5.0mm |
| D | 7.5mm |
| E | 7.5mm |

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

■ Rating, Dimensions & Quantity/Ammo Box

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

| Part No. | Cap. (μF) | Dimensions (mm) | | | | | | | | Quantity |
|---------------|--------------|-------------------|-------------------|-------------------|---------------------|-------|------|-------------------|------|----------|
| | | L ^{max.} | T ^{max.} | H ^{max.} | | F | S | G ^{max.} | ød | Ammo |
| | | | | Type-1 | Type-2 ³ | | | | | Type-1 |
| ECQM4102□Z() | 0.001 | 11.0 | 5.5 | 9.5 | 14.5 | 6.50 | 5.0 | 2 | 0.60 | 1000 |
| ECQM4122□Z() | 0.0012 | 11.0 | 6.0 | 10.0 | 15.0 | 6.50 | 5.0 | 2 | 0.60 | |
| ECQM4152□Z() | 0.0015 | 11.0 | 6.0 | 10.0 | 15.0 | 6.50 | 5.0 | 2 | 0.60 | |
| ECQM4182□Z() | 0.0018 | 11.0 | 6.0 | 10.0 | 15.0 | 6.50 | 5.0 | 2 | 0.60 | |
| ECQM4222□Z() | 0.0022 | 11.0 | 6.5 | 10.5 | 15.5 | 6.50 | 5.0 | 2 | 0.60 | |
| ECQM4272□Z() | 0.0027 | 12.0 | 6.0 | 10.0 | 15.0 | 7.50 | 5.0 | 2 | 0.60 | |
| ECQM4332□Z() | 0.0033 | 12.0 | 6.5 | 10.5 | 15.0 | 7.50 | 5.0 | 2 | 0.60 | |
| ECQM4392□Z() | 0.0039 | 12.0 | 6.5 | 10.5 | 15.0 | 7.50 | 5.0 | 2 | 0.60 | |
| ECQM4472□Z() | 0.0047 | 14.0 | 6.0 | 10.0 | 15.0 | 9.50 | 5.0 | 2 | 0.60 | |
| ECQM4562□Z() | 0.0056 | 14.0 | 6.0 | 10.0 | 15.0 | 9.50 | 5.0 | 2 | 0.60 | |
| ECQM4682□Z() | 0.0068 | 14.0 | 6.5 | 10.5 | 15.5 | 9.50 | 5.0 | 3 | 0.60 | |
| ECQM4822□Z() | 0.0082 | 14.0 | 6.5 | 12.0 | 17.0 | 9.50 | 5.0 | 3 | 0.60 | |
| ECQM4103□Z() | 0.01 | 14.0 | 7.0 | 12.5 | 17.5 | 9.50 | 5.0 | 3 | 0.60 | |
| ECQM4123□Z() | 0.012 | 17.0 | 6.0 | 12.0 | 17.0 | 12.50 | 7.5 | 3 | 0.60 | |
| ECQM4153□Z() | 0.015 | 17.0 | 6.5 | 12.5 | 17.5 | 12.50 | 7.5 | 3 | 0.60 | |
| ECQM4183□Z() | 0.018 | 17.0 | 7.0 | 13.0 | 18.0 | 12.50 | 7.5 | 3 | 0.60 | |
| ECQM4223□Z() | 0.022 | 17.0 | 7.5 | 13.5 | 18.5 | 12.50 | 7.5 | 3 | 0.60 | |
| ECQM4273□Z() | 0.027 | 20.0 | 7.0 | 14.5 | 19.5 | 15.00 | 10.0 | 3 | 0.70 | |
| ECQM4333□Z() | 0.033 | 20.0 | 7.5 | 15.0 | 20.0 | 15.00 | 10.0 | 3 | 0.70 | |
| ECQM4393□Z() | 0.039 | 20.0 | 8.5 | 16.0 | 21.0 | 15.00 | 10.0 | 3 | 0.70 | |
| ECQM4473□Z() | 0.047 | 20.0 | 9.0 | 16.5 | 21.5 | 15.00 | 10.0 | 3 | 0.70 | |
| ECQM4563□Z() | 0.056 | 23.0 | 8.5 | 15.5 | 20.5 | 18.00 | 12.5 | 3 | 0.70 | |
| ECQM4683□Z() | 0.068 | 23.0 | 9.0 | 16.5 | 21.5 | 18.00 | 12.5 | 3 | 0.70 | |
| ECQM4823□Z() | 0.082 | 24.0 | 9.5 | 17.0 | 22.0 | 18.00 | 12.5 | 3 | 0.80 | |
| ECQM4104□Z() | 0.1 | 24.0 | 10.0 | 19.0 | 24.0 | 18.00 | 12.5 | 3 | 0.80 | |
| ECQM4124□Z() | 0.12 | 24.0 | 11.0 | 20.0 | 25.0 | 18.50 | 12.5 | 3 | 0.80 | |
| ECQM4154□Z() | 0.15 | 24.0 | 12.5 | 21.0 | 26.0 | 18.50 | 12.5 | 3 | 0.80 | |
| ECQM4184□Z() | 0.18 | 28.0 | 12.5 | 21.5 | 26.5 | 23.50 | 15.0 | 3 | 0.80 | |
| ECQM4224□Z() | 0.22 | 28.0 | 14.0 | 23.0 | 28.0 | 23.50 | 15.0 | 3 | 0.80 | |
| ECQM4274□Z() | 0.27 | 28.0 | 15.5 | 24.5 | 29.5 | 23.50 | 15.0 | 3 | 0.80 | |
| ECQM4334□Z() | 0.33 | 28.0 | 17.5 | 26.5 | 31.5 | 23.50 | 15.0 | 3 | 0.80 | |
| ECQM4394□Z() | 0.39 | 34.0 | 16.0 | 26.5 | 31.5 | 28.50 | 17.5 | 3 | 0.80 | |
| ECQM4474□Z() | 0.47 | 34.0 | 17.5 | 28.0 | 33.0 | 28.50 | 17.5 | 3 | 0.80 | |

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

StyleD:0.001 to 0.0039 μF
 StyleB:0.0047 to 0.47 μF
 StyleN:0.001 to 0.0022 μF
 StyleT:0.0027 to 0.47 μF

■ Rating, Dimensions & Quantity/Ammo Box

● Rated voltage : 600VDC Capacitance tolerance : ±5%(J), ±10%(K)

| Part No. | Cap. (μF) | Dimensions (mm) | | | | | | | | Quantity | |
|---------------|--------------|-------------------|-------------------|-------------------|---------------------|--------|---------------------|-------------------|-------|----------|--|
| | | L ^{max.} | T ^{max.} | H ^{max.} | | F±1.25 | S±0.8 | G ^{max.} | ød | Ammo | |
| | | | | Type-1 | Type-2 ³ | Type-1 | Type-2 ³ | Type-1 | ±0.05 | | |
| ECQM6102□Z() | 0.001 | 13.0 | 7.0 | 11.0 | 15.0 | 7.50 | 7.5 | 3 | 0.60 | 1000 | |
| ECQM6122□Z() | 0.0012 | 13.0 | 7.5 | 11.0 | 15.0 | 7.50 | 7.5 | 3 | 0.60 | | |
| ECQM6152□Z() | 0.0015 | 13.0 | 7.5 | 11.0 | 15.0 | 7.50 | 7.5 | 3 | 0.60 | | |
| ECQM6182□Z() | 0.0018 | 15.0 | 7.0 | 11.0 | 15.0 | 9.50 | 10.0 | 3 | 0.60 | — | |
| ECQM6222□Z() | 0.0022 | 15.0 | 7.0 | 11.0 | 15.0 | 9.50 | 10.0 | 3 | 0.60 | 500 | |
| ECQM6272□Z() | 0.0027 | 15.0 | 7.5 | 11.0 | 15.0 | 9.50 | 10.0 | 3 | 0.60 | | |
| ECQM6332□Z() | 0.0033 | 15.0 | 7.5 | 11.0 | 15.0 | 9.50 | 10.0 | 3 | 0.60 | | |
| ECQM6392□Z() | 0.0039 | 15.0 | 7.5 | 13.0 | 17.0 | 9.50 | 10.0 | 3 | 0.60 | — | |
| ECQM6472□Z() | 0.0047 | 15.0 | 7.5 | 13.0 | 17.0 | 9.50 | 10.0 | 3 | 0.60 | 400 | |
| ECQM6562□Z() | 0.0056 | 15.0 | 8.5 | 14.0 | 18.0 | 9.50 | 10.0 | 3 | 0.60 | | |
| ECQM6682□Z() | 0.0068 | 15.0 | 8.5 | 14.0 | 18.0 | 9.50 | 10.0 | 3 | 0.60 | | |
| ECQM6822□Z() | 0.0082 | 20.0 | 7.0 | 14.0 | 18.0 | 14.50 | 10.0 | 3 | 0.60 | 300 | |
| ECQM6103□Z() | 0.01 | 20.0 | 7.0 | 14.0 | 18.0 | 14.50 | 10.0 | 3 | 0.60 | | |
| ECQM6123□Z() | 0.012 | 20.0 | 8.0 | 15.0 | 19.0 | 14.50 | 10.0 | 3 | 0.60 | | |
| ECQM6153□Z() | 0.015 | 20.0 | 8.0 | 15.0 | 19.0 | 14.50 | 10.0 | 3 | 0.60 | — | |
| ECQM6183□Z() | 0.018 | 20.0 | 9.5 | 16.0 | 20.0 | 14.50 | 10.0 | 3 | 0.60 | | |
| ECQM6223□Z() | 0.022 | 20.0 | 9.5 | 16.0 | 20.0 | 14.50 | 10.0 | 3 | 0.60 | | |
| ECQM6273□Z() | 0.027 | 25.5 | 9.0 | 16.0 | 21.0 | 19.50 | 12.5 | 4 | 0.70 | — | |
| ECQM6333□Z() | 0.033 | 25.5 | 9.0 | 16.0 | 21.0 | 19.50 | 12.5 | 4 | 0.70 | | |
| ECQM6393□Z() | 0.039 | 25.5 | 10.5 | 17.0 | 22.0 | 19.50 | 12.5 | 4 | 0.70 | | |
| ECQM6473□Z() | 0.047 | 25.5 | 10.5 | 17.0 | 22.0 | 19.50 | 12.5 | 4 | 0.70 | — | |
| ECQM6563□Z() | 0.056 | 25.5 | 13.5 | 20.0 | 25.0 | 19.50 | 12.5 | 4 | 0.70 | | |
| ECQM6683□Z() | 0.068 | 25.5 | 13.5 | 20.0 | 25.0 | 19.50 | 12.5 | 4 | 0.70 | | |
| ECQM6823□Z() | 0.082 | 25.5 | 13.5 | 23.0 | 28.0 | 19.50 | 12.5 | 4 | 0.80 | — | |
| ECQM6104□Z() | 0.1 | 25.5 | 13.5 | 23.0 | 28.0 | 19.50 | 12.5 | 4 | 0.80 | | |
| ECQM6124□Z() | 0.12 | 37.0 | 11.0 | 23.0 | 28.0 | 30.50 | 20.0 | 4 | 0.80 | | |
| ECQM6154□Z() | 0.15 | 37.0 | 11.0 | 23.0 | 28.0 | 30.50 | 20.0 | 4 | 0.80 | — | |
| ECQM6184□Z() | 0.18 | 37.0 | 13.5 | 25.0 | 30.0 | 30.50 | 20.0 | 4 | 0.80 | | |
| ECQM6224□Z() | 0.22 | 37.0 | 13.5 | 25.0 | 30.0 | 30.50 | 20.0 | 4 | 0.80 | | |

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

StyleD:0.001 to 0.0068 μF
 StyleB:0.0082 to 0.22 μF
 StyleN:0.001 to 0.0068 μF
 StyleT:0.0082 to 0.22 μF

● Rated voltage:125VAC, Capacitance tolerance : ± 65%(Z)

Noise suppression capacitor for glow switch

| Part No. | Cap. (μF) | Dimensions (mm) | | | |
|-------------|--------------|-------------------|-------------------|-------------------|-------------------|
| | | L ^{max.} | T ^{max.} | H ^{max.} | G ^{max.} |
| ECQM1A602ZS | 0.006 | 17.5 | 6.5 | 11.5 | 6.0 |

● This capacitor is used for glow noise suppression for lighting products.

Consult us for further requirements as we have wide variety of products other than mentioned here according to type of glow, installation method etc.