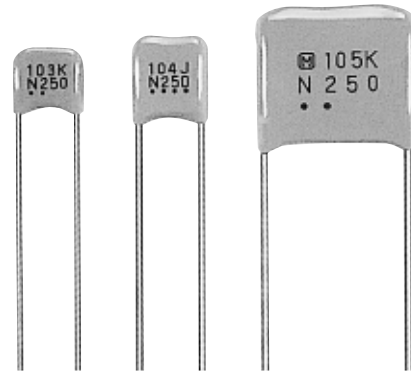


Metallized Polyester Film Capacitor

Type: **ECQE(B)**

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



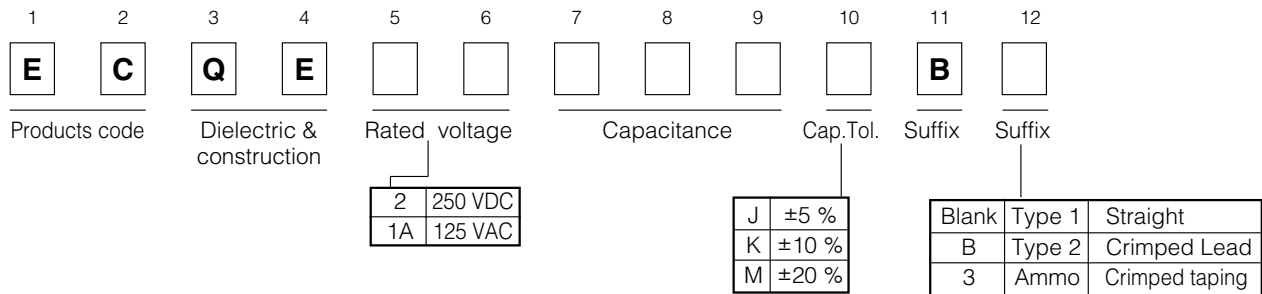
■Features

- Small size
- Excellent electrical characteristics
- Flame retardant epoxy resin coating
- RoHS directive compliant

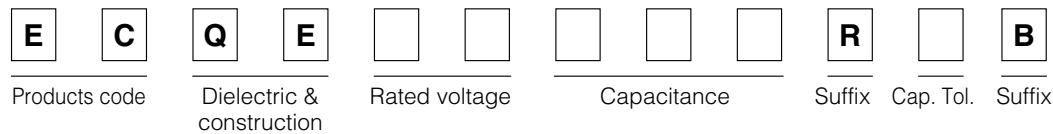
■Recommended Applications

- General purpose usage
- ※Please contact us when applications are CD I, ignitor etc.

■Explanation of Part Numbers



■Explanation of Part Numbers for Odd Size Taping

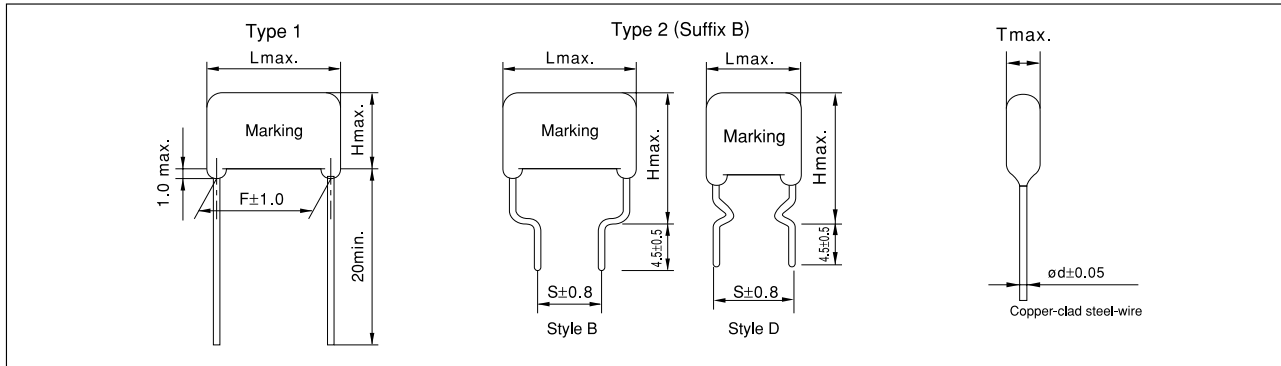


■Specifications

Category temp. range (Including temperature-rise on unit surface)	250 VDC	-40 °C to +105 °C
	125 VAC	-40 °C to +85 °C
Rated voltage	250 VDC, 125 VAC (250 VDC : Derating of rated voltage by 1.25 %/°C at more than 85 °C)	
Capacitance range	0.010 μF to 4.7 μF	
Capacitance tolerance	±5 % (J), ±10 % (K), (±20 % (M) only 125 VAC)	
Dissipation factor (tan δ)	tan δ ≤ 1.0 % (20 °C, 1 kHz)	
Withstand voltage	Rated volt. 250 VDC Between terminals : Rated vol. (VDC) × 150 % 60 s	
	Rated volt. 125 VAC Between terminals : Rated volt. (VAC) × 230 % 60 s Between terminals to enclosure: 1500 VAC 60 s	
Insulation resistance (IR)	250 VDC	C ≤ 0.33 μF : IR ≥ 9000 MΩ (20 °C, 100 VDC, 60 s) C > 0.33 μF : IR ≥ 3000 MΩ · μF (20 °C, 100 VDC, 60 s)
	125 VAC	C ≤ 0.47 μF : IR ≥ 2000 MΩ (20 °C, 500 VDC, 60 s) C > 0.47 μF : IR ≥ 3000 MΩ · μF (20 °C, 100 VDC, 60 s)

- ※ In case of applying voltage in alternating current (50 Hz or 60 Hz sine wave) to a capacitor with DC rated voltage, please refer to the page of "Permissible voltage (R.M.S) in alternating current corresponding to DC rated voltage".
- ※ Voltage to be applied to ECQE1A (B) is only sine wave (50 Hz or 60 Hz).

■Dimensions in mm (not to scale)

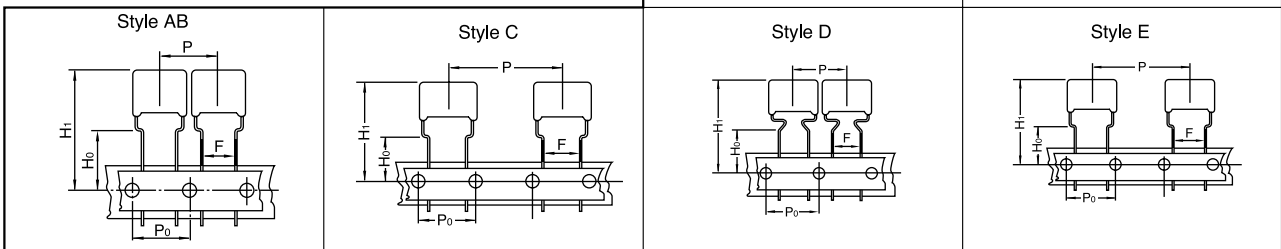


■Packaging Specifications for Bulk Package

Packing quantity : 100 pcs./bag

■Taping Specifications for Automatic Insertion

●Taping style



*Refer to the page of taping specifications.

●Packaging Specifications

Type	Rated volt.	Cap.range (μF)	Taping Style							Packing
			AD	AS	AB	B	C	D	E	
ECQE (B)	250 VDC	0.010 to 0.15		○						Ammo
		0.18 to 0.68	○							Ammo
		0.82 to 1.5					○			Ammo
		1.8 to 4.7							○	Ammo
	125 VAC	0.010 to 0.068		○						Ammo
		0.082 to 0.22			○					Ammo
		0.27 to 1.0					○			Ammo
		0.082 to 0.68						○		Ammo
		0.82 to 2.7							○	Ammo
		1.2 to 2.7					○			Ammo

●Lead Spacing

Style	Lead Spacing
AD	5.0 mm
AS	5.0 mm
AB	5.0 mm
C	5.0 mm
D	7.5 mm
E	7.5 mm

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

■ Rating, Dimensions & Quantity/Ammo Box

● Rated voltage: 250 VDC, Capacitance tolerance: ±5 % (J), ±10 % (K)

Part No.	Cap. (μ F)	Dimensions (mm)							Quantity							
		L _{max.}	T _{max.}	H _{max.}		F	S	ϕ d	Ammo							
				Type 1	Type 2	Type 1	Type 2		Standard 5 mm	Odd size 5 mm	Odd size 7.5 mm					
ECQE2103□B()	0.010	7.9	4.2	7.1	12.1	5.0	5.0	0.50	2000	—	—					
ECQE2123□B()	0.012	7.9	4.2	7.1	12.1	5.0	5.0	0.50								
ECQE2153□B()	0.015	7.9	4.2	7.1	12.1	5.0	5.0	0.50								
ECQE2183□B()	0.018	7.9	4.3	7.2	12.2	5.0	5.0	0.50								
ECQE2223□B()	0.022	7.9	4.3	7.2	12.2	5.0	5.0	0.50								
ECQE2273□B()	0.027	7.9	4.3	7.2	12.2	5.0	5.0	0.50								
ECQE2333□B()	0.033	7.9	4.3	7.2	12.2	5.0	5.0	0.50								
ECQE2393□B()	0.039	7.9	4.5	7.4	12.4	5.0	5.0	0.50	1500	—	—					
ECQE2473□B()	0.047	7.9	4.5	7.4	12.4	5.0	5.0	0.50								
ECQE2563□B()	0.056	7.9	4.7	7.7	12.7	5.0	5.0	0.50								
ECQE2683□B()	0.068	7.9	5.1	8.0	13.0	5.0	5.0	0.50								
ECQE2823□B()	0.082	7.9	5.4	8.6	13.6	5.0	5.0	0.50								
ECQE2104□B()	0.10	7.9	5.9	9.0	14.0	5.0	5.0	0.50	1000	—	—					
ECQE2124□B()	0.12	7.9	5.7	10.6	15.6	5.0	5.0	0.50	1500							
ECQE2154□B()	0.15	7.9	6.3	11.2	16.2	5.0	5.0	0.50	1000							
ECQE2184□B()	0.18	10.3	5.0	9.7	14.7	7.5	5.0	0.50	1500			1500				
ECQE2224□B()	0.22	10.3	5.4	10.1	15.1	7.5	5.0	0.50								
ECQE2274□B()	0.27	10.3	5.9	10.8	15.8	7.5	5.0	0.50	1000			1000				
ECQE2334□B()	0.33	10.3	6.4	11.3	16.3	7.5	5.0	0.50								
ECQE2394□B()	0.39	12.3	5.7	10.9	15.9	10.0	5.0	0.60								
ECQE2474□B()	0.47	12.3	6.2	11.4	16.4	10.0	5.0	0.60								
ECQE2564□B()	0.56	12.3	6.7	11.9	16.9	10.0	5.0	0.60								
ECQE2684□B()	0.68	12.3	7.3	12.7	17.7	10.0	5.0	0.60	—	—	—					
ECQE2824□B()	0.82	15.3	6.3	13.3	18.3	12.5	5.0	0.60				600	500			
ECQE2105□B()	1.0	15.3	7.0	14.0	19.0	12.5	5.0	0.60				500	400			
ECQE2125□B()	1.2	15.3	7.6	14.6	19.6	12.5	5.0	0.60								
ECQE2155□B()	1.5	15.3	8.6	15.7	20.7	12.5	5.0	0.60				400	300			
ECQE2185□B()	1.8	20.8	7.6	14.6	19.6	17.5	10.0	0.80				—	—	400		
ECQE2225□B()	2.2	20.8	8.4	15.6	20.6	17.5	10.0	0.80								
ECQE2275□B()	2.7	20.8	9.3	16.7	21.7	17.5	10.0	0.80								
ECQE2335□B()	3.3	20.8	10.5	17.9	22.9	17.5	10.0	0.80							—	300
ECQE2395□B()	3.9	20.8	10.8	19.8	24.8	17.5	10.0	0.80								
ECQE2475□B()	4.7	20.8	11.9	21.0	26.0	17.5	10.0	0.80	—	200						

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

Style D: 0.010 μ F to 0.68 μ F
 Style B: 0.82 μ F to 4.7 μ F

■ Rating, Dimensions & Quantity/Ammo Box

● Rated voltage : 125 VAC Capacitance tolerance : ±5 %(J), ±10 %(K), ±20 %(M)

Part No.	Cap. (μ F)	Dimensions (mm)							Quantity		
		L _{max.}	T _{max.}	H _{max.}		F	S	ϕ d	Ammo		
				Type 1	Type 2				Type 1	Type 2	Standard 5 mm
ECQE1A103□B()	0.010	7.9	4.2	7.1		5.0		0.50	2000	—	—
ECQE1A123□B()	0.012	7.9	4.2	7.1		5.0		0.50			
ECQE1A153□B()	0.015	7.9	4.2	7.1		5.0		0.50			
ECQE1A183□B()	0.018	7.9	4.3	7.2		5.0		0.50			
ECQE1A223□B()	0.022	7.9	4.3	7.2		5.0		0.50			
ECQE1A273□B()	0.027	7.9	4.3	7.2		5.0		0.50			
ECQE1A333□B()	0.033	7.9	4.3	7.2		5.0		0.50			
ECQE1A393□B()	0.039	7.9	4.5	7.4		5.0		0.50			
ECQE1A473□B()	0.047	7.9	4.8	7.7		5.0		0.50			
ECQE1A563□B()	0.056	7.9	5.1	8.0		5.0		0.50			
ECQE1A683□B()	0.068	7.9	5.4	8.6		5.0		0.50			
ECQE1A823□B()	0.082	10.3	4.6	7.6	12.6	7.5	7.5	0.50	1500	—	1500
ECQE1A104□B()	0.10	10.3	5.1	7.7	12.7	7.5	7.5	0.50			
ECQE1A124□B()	0.12	10.3	5.3	8.4	13.4	7.5	7.5	0.50			
ECQE1A154□B()	0.15	10.3	5.7	8.9	13.9	7.5	7.5	0.50			
ECQE1A184□B()	0.18	10.3	5.6	10.3	15.3	7.5	7.5	0.50			
ECQE1A224□B()	0.22	10.3	6.1	11.0	16.0	7.5	7.5	0.50			
ECQE1A274□B()	0.27	12.3	5.4	10.7	15.7	10.0	7.5	0.60			
ECQE1A334□B()	0.33	12.3	5.9	11.2	16.2	10.0	7.5	0.60			
ECQE1A394□B()	0.39	12.3	6.4	11.6	16.6	10.0	7.5	0.60			
ECQE1A474□B()	0.47	12.3	7.0	12.2	17.2	10.0	7.5	0.60			
ECQE1A564□B()	0.56	12.3	6.7	11.9	16.9	10.0	7.5	0.60			
ECQE1A684□B()	0.68	12.3	7.3	12.7	17.7	10.0	7.5	0.60			
ECQE1A824□B()	0.82	15.3	6.3	13.3	18.3	12.5	7.5	0.60	1000	800	700
ECQE1A105□B()	1.0	15.3	7.0	14.0	19.0	12.5	7.5	0.60			
ECQE1A125□B()	1.2	20.8	7.1	14.1	19.1	17.5	10.0	0.80			
ECQE1A155□B()	1.5	20.8	8.0	15.1	20.1	17.5	10.0	0.80			
ECQE1A185□B()	1.8	20.8	8.7	15.9	20.9	17.5	10.0	0.80			
ECQE1A225□B()	2.2	20.8	9.7	17.1	22.1	17.5	10.0	0.80			
ECQE1A275□B()	2.7	20.8	10.9	18.2	23.2	17.5	10.0	0.80			
ECQE1A335□B()	3.3	25.8	9.6	18.7	23.7	22.5	15.0	0.80			
ECQE1A395□B()	3.9	25.8	10.6	19.7	24.7	22.5	15.0	0.80			
ECQE1A475□B()	4.7	25.8	11.8	20.8	25.8	22.5	15.0	0.80			

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

Style D: 0.082 μ F to 0.68 μ F
 Style B: 0.82 μ F to 4.7 μ F

* When using these capacitors as an across-the-line capacitor it shall be required to follow the conditions in either item 1 or 2.

1. Capacitor shall be connected in parallel with varistor which varistor voltage is less than 250 V.
2. Voltage applied to capacitor shall not exceed more than 250 V_{0-p}.