

Polyester Film Capacitor

Type: **ECQB**

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

■Features

- High volumetric efficiency
- Non-inductive construction

■Recommended Applications

- General purpose usage

■Explanation of Part Numbers

1	2	3	4	5	6	7	8	9	10	11	12
E	C	Q	B							F	

Product code Dielectric & construction Rated voltage Capacitance Cap. Tol. Suffix Suffix

50VDC	63VDC	100VDC	200VDC
1H	1J	1	2

±5%	±10%
J	K

Taping				lead	
Ammo		Reel		Type1	Type2
Straight	Crimped	Straight	Crimped		style N style T
4	3	5	9	Blank	W

●Explanation of Part Number for Odd Size Taping

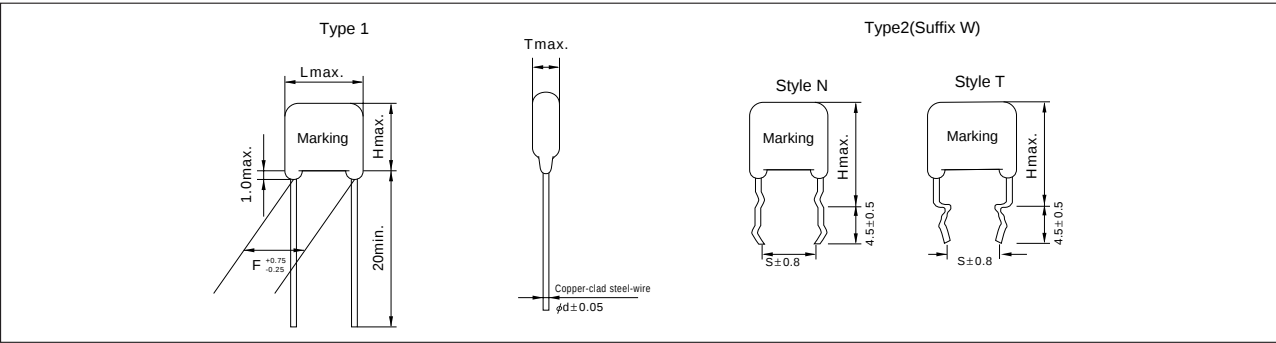
E	C	Q	B						R		F
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Product code Dielectric & construction Rated voltage Capacitance 7.5mm Crimped lead Cap. Tol. Suffix

■Specifications

Category temp. range	−40 to +85°C (+105°C…50% of Rated voltage)
Rated voltage	50VDC, 63VDC, 100VDC, 200VDC
Capacitance range	0.0001 to 0.47μF
Capacitance tolerance	±5%(J), ±10%(K) (0.0001 to 0.00039 μF/50V, 63VDC : ±10%only)
Dissipation factor	0.8%max.(20°C, 1kHz) (ECQB(F)100VDC : 1.0%max.)
Withstand voltage	Between terminals : Rated voltage(VDC)×250%1 to 5s
Insulation resistance	C ≤ 0.33μF : 30000 MΩ min. (20°C, 50 VDC 60s : ECQB1H(F), ECQB1J(F)) C > 0.33μF : 10000MΩ · μFmin. (20°C, 100VDC 60s : ECQB1(F), ECQB2(F))

■Dimensions in mm(not to scale)

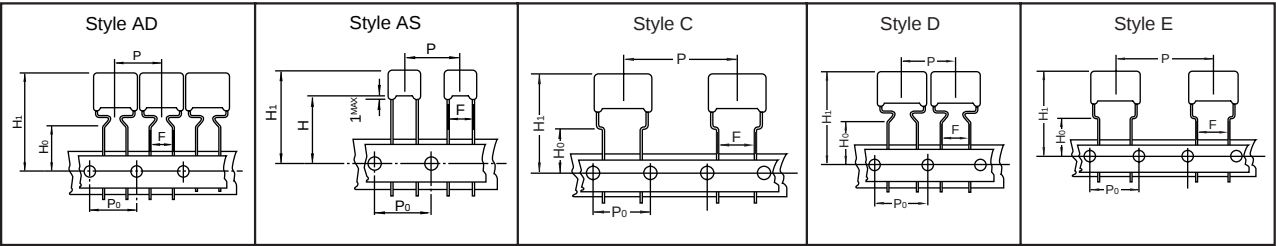


■Packaging Specifications for Bulk Package

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	
ECQB (F)	50VDC	0.0001 to 0.22	○						Ammo
		0.0001 to 0.1		○					Ammo
		0.0001 to 0.22	○						Reel
		0.0001 to 0.1		○					Reel
	63VDC	0.0001 to 0.033	○	○					Ammo
		0.0001 to 0.033	○	○					Reel
	100VDC	0.0001 to 0.1	○						Ammo
		0.0001 to 0.047		○					Ammo
		0.0001 to 0.1	○						Reel
		0.0001 to 0.047		○					Reel
	200VDC	0.1 to 0.47					○		Ammo
		0.001 to 0.033	○						Ammo
		0.0033 to 0.056					○		Ammo
		0.068 to 0.47						○	Ammo
		0.039 to 0.22				○			Ammo

●Lead Spacing

Style	Lead Spacing
AD	5.0mm
AS	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 & Reel

●Type ECQB(F), Rated voltage:50VDC, Capacitance tolerance: ±5%(J),±10%(K)

Only ±10%(K)is available from 0.0001 to 0.00039μF

Part No.	Cap. (μF)	Dimensions (mm)							Quantity	
		L _{max.}	T _{max.}	H _{max.}		F	S	ød	Ammo	Reel
				Type-1	Type-2					
ECQB1H101KF()	0.0001	7.0	3.0	6.0	11.0	5.00	5.0	0.50	2000	2000
ECQB1H121KF()	0.00012	7.0	3.0	6.0	11.0	5.00	5.0	0.50		
ECQB1H151KF()	0.00015	7.0	3.0	6.0	11.0	5.00	5.0	0.50		
ECQB1H181KF()	0.00018	7.0	3.0	6.0	11.0	5.00	5.0	0.50		
ECQB1H221KF()	0.00022	7.0	3.0	6.0	11.0	5.00	5.0	0.50		
ECQB1H271KF()	0.00027	7.0	3.0	6.0	11.0	5.00	5.0	0.50		
ECQB1H331KF()	0.00033	7.0	3.0	6.0	11.0	5.00	5.0	0.50		
ECQB1H391KF()	0.00039	7.0	3.0	6.0	11.0	5.00	5.0	0.50		
ECQB1H471 □F()	0.00047	7.0	3.0	6.0	11.0	5.00	5.0	0.50		
ECQB1H561 □F()	0.00056	7.0	3.0	6.0	11.0	5.00	5.0	0.50		
ECQB1H681 □F()	0.00068	7.0	3.0	6.0	11.0	5.00	5.0	0.50		
ECQB1H821 □F()	0.00082	7.0	3.0	6.0	11.0	5.00	5.0	0.50		
ECQB1H102 □F()	0.001	7.0	3.0	6.0	11.0	5.00	5.0	0.50		
ECQB1H122 □F()	0.0012	7.0	3.0	6.0	11.0	5.00	5.0	0.50		
ECQB1H152 □F()	0.0015	7.0	3.0	6.0	11.0	5.00	5.0	0.50		
ECQB1H182 □F()	0.0018	7.0	3.0	6.0	11.0	5.00	5.0	0.50		
ECQB1H222 □F()	0.0022	7.0	3.0	6.0	11.0	5.00	5.0	0.50		
ECQB1H272 □F()	0.0027	7.0	3.0	6.0	11.0	5.00	5.0	0.50		
ECQB1H332 □F()	0.0033	7.0	3.0	6.0	11.0	5.00	5.0	0.50		
ECQB1H392 □F()	0.0039	7.0	3.0	6.0	11.0	5.00	5.0	0.50		
ECQB1H472 □F()	0.0047	7.0	3.0	6.0	11.0	5.00	5.0	0.50		
ECQB1H562 □F()	0.0056	7.0	3.0	6.0	11.0	5.00	5.0	0.50		
ECQB1H682 □F()	0.0068	7.0	3.0	6.0	11.0	5.00	5.0	0.50		
ECQB1H822 □F()	0.0082	7.0	3.0	6.0	11.0	5.00	5.0	0.50		
ECQB1H103 □F()	0.01	7.0	3.0	6.0	11.0	5.00	5.0	0.50		
ECQB1H123 □F()	0.012	7.3	3.3	6.3	11.3	5.00	5.0	0.50		
ECQB1H153 □F()	0.015	7.5	3.0	6.0	11.0	5.00	5.0	0.50		
ECQB1H183 □F()	0.018	7.5	3.0	6.0	11.0	5.00	5.0	0.50		
ECQB1H223 □F()	0.022	7.5	3.0	6.0	11.0	5.00	5.0	0.50		
ECQB1H273 □F()	0.027	7.5	3.5	6.5	11.5	5.00	5.0	0.50		
ECQB1H333 □F()	0.033	7.5	3.5	6.5	11.5	5.00	5.0	0.50		
ECQB1H393 □F()	0.039	7.5	4.0	7.0	12.0	5.00	5.0	0.50		
ECQB1H473 □F()	0.047	7.5	4.0	7.5	12.5	5.00	5.0	0.50	1000	1000
ECQB1H563 □F()	0.056	8.0	4.3	7.5	12.5	5.00	5.0	0.50		
ECQB1H683 □F()	0.068	8.0	4.3	8.5	13.5	5.00	5.0	0.50		
ECQB1H823 □F()	0.082	8.0	4.5	9.0	14.0	5.00	5.0	0.50		
ECQB1H104 □F()	0.1	8.0	5.0	10.0	15.0	5.00	5.0	0.50		
ECQB1H124 □F()	0.12	11.0	5.0	11.6	16.6	7.50	5.0	0.60		
ECQB1H154 □F()	0.15	11.0	5.0	12.0	17.0	7.50	5.0	0.60		
ECQB1H184 □F()	0.18	11.0	5.5	12.4	17.4	7.50	5.0	0.60	500	—
ECQB1H224 □F()	0.22	11.0	6.0	13.0	18.0	7.50	5.0	0.60		
ECQB1H274 □F()	0.27	13.0	6.0	14.4	19.4	10.00	5.0	0.60	—	—
ECQB1H334 □F()	0.33	13.0	6.5	15.0	20.0	10.00	5.0	0.60		
ECQB1H394 □F()	0.39	13.0	7.0	15.4	20.4	10.00	5.0	0.60		
ECQB1H474 □F()	0.47	13.0	7.5	16.2	21.2	10.00	5.0	0.60		

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

StyleN:0.0001 to 0.1 μF
 StyleT:0.12 to 0.47 μF

■ Rating, Dimensions & Quantity/Ammo Box & Reel

● Type ECQB(F), Rated voltage: 63VDC, Capacitance tolerance: $\pm 5\%$ (J), $\pm 10\%$ (K)

Only $\pm 10\%$ (K) is available from 0.0001 to 0.00039 μF

Part No.	Cap. (μF)	Dimensions (mm)							Quantity	
		L _{max.}	T _{max.}	H _{max.}		F	S	ϕd	Ammo	Reel
				Type-1	Type-2					
ECQB1J101KF()	0.0001	7.0	3.0	6.0	11.0	5.00	5.0	0.50	2000	2000
ECQB1J121KF()	0.00012	7.0	3.0	6.0	11.0	5.00	5.0	0.50		
ECQB1J151KF()	0.00015	7.0	3.0	6.0	11.0	5.00	5.0	0.50		
ECQB1J181KF()	0.00018	7.0	3.0	6.0	11.0	5.00	5.0	0.50		
ECQB1J221KF()	0.00022	7.0	3.0	6.0	11.0	5.00	5.0	0.50		
ECQB1J271KF()	0.00027	7.0	3.0	6.0	11.0	5.00	5.0	0.50		
ECQB1J331KF()	0.00033	7.0	3.0	6.0	11.0	5.00	5.0	0.50		
ECQB1J391KF()	0.00039	7.0	3.0	6.0	11.0	5.00	5.0	0.50		
ECQB1J471 □F()	0.00047	7.0	3.0	6.0	11.0	5.00	5.0	0.50		
ECQB1J561 □F()	0.00056	7.0	3.0	6.0	11.0	5.00	5.0	0.50		
ECQB1J681 □F()	0.00068	7.0	3.0	6.0	11.0	5.00	5.0	0.50		
ECQB1J821 □F()	0.00082	7.0	3.0	6.0	11.0	5.00	5.0	0.50		
ECQB1J102 □F()	0.001	7.0	3.0	6.0	11.0	5.00	5.0	0.50		
ECQB1J122 □F()	0.0012	7.0	3.0	6.0	11.0	5.00	5.0	0.50		
ECQB1J152 □F()	0.0015	7.0	3.0	6.0	11.0	5.00	5.0	0.50		
ECQB1J182 □F()	0.0018	7.0	3.0	6.0	11.0	5.00	5.0	0.50		
ECQB1J222 □F()	0.0022	7.0	3.0	6.0	11.0	5.00	5.0	0.50		
ECQB1J272 □F()	0.0027	7.0	3.0	6.0	11.0	5.00	5.0	0.50		
ECQB1J332 □F()	0.0033	7.0	3.0	6.0	11.0	5.00	5.0	0.50		
ECQB1J392 □F()	0.0039	7.0	3.0	6.0	11.0	5.00	5.0	0.50		
ECQB1J472 □F()	0.0047	7.0	3.0	6.0	11.0	5.00	5.0	0.50		
ECQB1J562 □F()	0.0056	7.0	3.0	6.0	11.0	5.00	5.0	0.50		
ECQB1J682 □F()	0.0068	7.0	3.0	6.0	11.0	5.00	5.0	0.50		
ECQB1J822 □F()	0.0082	7.0	3.0	6.0	11.0	5.00	5.0	0.50		
ECQB1J103 □F()	0.01	7.0	3.0	6.0	11.0	5.00	5.0	0.50		
ECQB1J123 □F()	0.012	7.3	3.3	6.3	11.3	5.00	5.0	0.50		
ECQB1J153 □F()	0.015	7.5	3.0	6.0	11.0	5.00	5.0	0.50		
ECQB1J183 □F()	0.018	7.5	3.0	6.0	11.0	5.00	5.0	0.50		
ECQB1J223 □F()	0.022	7.5	3.0	6.0	11.0	5.00	5.0	0.50		
ECQB1J273 □F()	0.027	7.5	3.5	6.5	11.5	5.00	5.0	0.50		
ECQB1J333 □F()	0.033	7.5	3.5	6.5	11.5	5.00	5.0	0.50		

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

StyleN: 0.0001 to 0.033 μF

■ Rating, Dimensions & Quantity/Ammo Box & Reel

● Type ECQB(F), Rated voltage:100VDC, Capacitance tolerance: ±5%(J),±10%(K)

Only ±10%(K) is available from 0.0001 to 0.00039μF

Part No.	Cap. (μF)	Dimensions (mm)							Quantity		
		L _{max.}	T _{max.}	H _{max.}		F	S	ød	Ammo	Reel	
				Type-1	Type-2						Type-1
ECQB1101KF()	0.0001	7.2	3.0	6.0	11.0	5.00	5.0	0.50	2000	2000	
ECQB1121KF()	0.00012	7.2	3.0	6.0	11.0	5.00	5.0	0.50			
ECQB1151KF()	0.00015	7.2	3.0	6.0	11.0	5.00	5.0	0.50			
ECQB1181KF()	0.00018	7.2	3.0	6.0	11.0	5.00	5.0	0.50			
ECQB1221KF()	0.00022	7.2	3.0	6.0	11.0	5.00	5.0	0.50			
ECQB1271KF()	0.00027	7.2	3.0	6.0	11.0	5.00	5.0	0.50			
ECQB1331KF()	0.00033	7.2	3.0	6.0	11.0	5.00	5.0	0.50			
ECQB1391KF()	0.00039	7.2	3.0	6.0	11.0	5.00	5.0	0.50			
ECQB1471□F()	0.00047	7.2	3.0	6.0	11.0	5.00	5.0	0.50			
ECQB1561□F()	0.00056	7.2	3.0	6.0	11.0	5.00	5.0	0.50			
ECQB1681□F()	0.00068	7.2	3.0	6.0	11.0	5.00	5.0	0.50			
ECQB1821□F()	0.00082	7.2	3.0	6.0	11.0	5.00	5.0	0.50			
ECQB1102□F()	0.001	7.2	3.0	6.0	11.0	5.00	5.0	0.50			
ECQB1122□F()	0.0012	7.2	3.0	6.0	11.0	5.00	5.0	0.50			
ECQB1152□F()	0.0015	7.2	3.0	6.0	11.0	5.00	5.0	0.50			
ECQB1182□F()	0.0018	7.2	3.0	6.5	11.5	5.00	5.0	0.50			
ECQB1222□F()	0.0022	7.2	3.0	6.5	11.5	5.00	5.0	0.50			
ECQB1272□F()	0.0027	7.2	3.0	6.5	11.5	5.00	5.0	0.50			
ECQB1332□F()	0.0033	7.2	3.0	6.5	11.5	5.00	5.0	0.50			
ECQB1392□F()	0.0039	7.2	3.0	6.5	11.5	5.00	5.0	0.50			
ECQB1472□F()	0.0047	7.2	3.0	6.5	11.5	5.00	5.0	0.50			
ECQB1562□F()	0.0056	7.2	3.0	6.5	11.5	5.00	5.0	0.50			
ECQB1682□F()	0.0068	7.2	3.0	6.5	11.5	5.00	5.0	0.50			
ECQB1822□F()	0.0082	7.2	3.2	7.0	12.0	5.00	5.0	0.50			
ECQB1103□F()	0.01	7.2	3.2	7.0	12.0	5.00	5.0	0.50			
ECQB1123□F()	0.012	7.2	3.5	7.0	12.0	5.00	5.0	0.50			
ECQB1153□F()	0.015	7.2	4.0	7.5	12.5	5.00	5.0	0.50			
ECQB1183□F()	0.018	7.5	4.5	8.0	13.0	5.00	5.0	0.50	1000	1000	
ECQB1223□F()	0.022	7.5	4.5	9.0	14.0	5.00	5.0	0.50			
ECQB1273□F()	0.027	7.5	5.0	9.5	14.5	5.00	5.0	0.50			
ECQB1333□F()	0.033	7.5	5.5	10.0	15.0	5.00	5.0	0.50			
ECQB1393□F()	0.039	7.5	6.0	11.2	16.2	5.00	5.0	0.50	500		1000
ECQB1473□F()	0.047	7.5	6.5	11.8	16.8	5.00	5.0	0.50			
ECQB1563□F()	0.056	10.0	5.0	12.0	17.0	7.50	5.0	0.60			
ECQB1683□F()	0.068	10.0	5.5	12.4	17.4	7.50	5.0	0.60			
ECQB1823□F()	0.082	10.0	5.5	14.0	19.0	7.50	5.0	0.60			
ECQB1104□F()	0.1	10.5	6.0	14.6	19.6	7.50	5.0	0.60			
ECQB1124□F()	0.12	10.5	7.0	15.2	20.2	7.50	5.0	0.60			
ECQB1154□F()	0.15	13.0	7.0	13.8	18.8	10.00	5.0	0.60			
ECQB1184□F()	0.18	13.0	7.5	14.4	19.4	10.00	5.0	0.60			
ECQB1224□F()	0.22	13.0	8.0	15.2	20.2	10.00	5.0	0.60			
ECQB1274□F()	0.27	13.0	8.5	17.2	22.2	10.00	5.0	0.60	400	300	
ECQB1334□F()	0.33	13.0	9.0	18.0	23.0	10.00	5.0	0.60			
ECQB1394□F()	0.39	13.0	10.5	19.0	24.0	10.00	5.0	0.60			
ECQB1474□F()	0.47	13.0	11.5	19.2	24.2	10.00	5.0	0.60			

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

StyleN:0.0001 to 0.047 μF
 StyleT:0.056 to 0.47 μF

■ Rating, Dimensions & Quantity/Ammo Box & Reel

● Type ECQB(F), Rated voltage:200VDC, Capacitance tolerance:±5%(J),±10%(K)

Part No.	Cap. (μF)	Dimensions (mm)							Quantity
		L _{max.}	T _{max.}	H _{max.}		F	S	ød	Ammo
				Type-1	Type-2				
ECQB2102□F()	0.001	8.5	4.0	7.0	12.0	5.00	5.0	0.50	1000
ECQB2122□F()	0.0012	8.5	4.0	7.5	12.5	5.00	5.0	0.50	
ECQB2152□F()	0.0015	8.5	4.0	7.5	12.5	5.00	5.0	0.50	
ECQB2182□F()	0.0018	8.5	4.5	7.5	12.5	5.00	5.0	0.50	
ECQB2222□F()	0.0022	8.5	4.5	7.5	12.5	5.00	5.0	0.50	
ECQB2272□F()	0.0027	8.5	4.5	8.0	13.0	5.00	5.0	0.50	
ECQB2332□F()	0.0033	11.0	4.5	7.5	12.5	7.50	5.0	0.60	
ECQB2392□F()	0.0039	11.0	4.5	7.5	12.5	7.50	5.0	0.60	
ECQB2472□F()	0.0047	11.0	4.5	8.5	13.5	7.50	5.0	0.60	
ECQB2562□F()	0.0056	11.0	4.5	8.5	13.5	7.50	5.0	0.60	
ECQB2682□F()	0.0068	11.0	4.5	9.0	14.0	7.50	5.0	0.60	
ECQB2822□F()	0.0082	11.0	4.5	9.0	14.0	7.50	5.0	0.60	
ECQB2103□F()	0.01	11.0	4.5	10.0	15.0	7.50	5.0	0.60	
ECQB2123□F()	0.012	11.0	5.0	10.5	15.5	7.50	5.0	0.60	
ECQB2153□F()	0.015	11.0	5.5	10.5	15.5	7.50	5.0	0.60	
ECQB2183□F()	0.018	11.0	5.5	12.2	17.2	7.50	5.0	0.60	
ECQB2223□F()	0.022	11.0	6.0	12.6	17.6	7.50	5.0	0.60	500
ECQB2273□F()	0.027	11.0	6.5	13.2	18.2	7.50	5.0	0.60	
ECQB2333□F()	0.033	11.0	7.0	13.6	18.6	7.50	5.0	0.60	
ECQB2393□F()	0.039	13.5	5.0	14.4	19.4	10.00	7.5	0.60	800
ECQB2473□F()	0.047	13.5	5.5	14.8	19.8	10.00	7.5	0.60	500
ECQB2563□F()	0.056	13.5	6.0	15.4	20.4	10.00	7.5	0.60	
ECQB2683□F()	0.068	16.0	5.5	15.0	20.0	12.50	10.0	0.60	
ECQB2823□F()	0.082	16.0	6.0	15.4	20.4	12.50	10.0	0.60	
ECQB2104□F()	0.1	16.0	7.0	16.0	21.0	12.50	10.0	0.60	
ECQB2124□F()	0.12	19.0	6.5	17.6	22.6	15.00	12.5	0.60	
ECQB2154□F()	0.15	19.0	7.5	18.4	23.4	15.00	12.5	0.60	
ECQB2184□F()	0.18	19.0	8.0	19.0	24.0	15.00	12.5	0.60	
ECQB2224□F()	0.22	19.0	9.0	20.0	25.0	15.00	12.5	0.60	400
ECQB2274□F()	0.27	24.0	8.0	19.4	24.4	20.00	15.0	0.80	
ECQB2334□F()	0.33	24.0	9.0	20.4	25.4	20.00	15.0	0.80	300
ECQB2394□F()	0.39	24.0	10.0	21.2	26.2	20.00	15.0	0.80	
ECQB2474□F()	0.47	24.0	11.5	22.2	27.2	20.00	15.0	0.80	

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

StyleN:0.001 to 0.0027 μF
 StyleT:0.0033 to 0.47 μF