

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

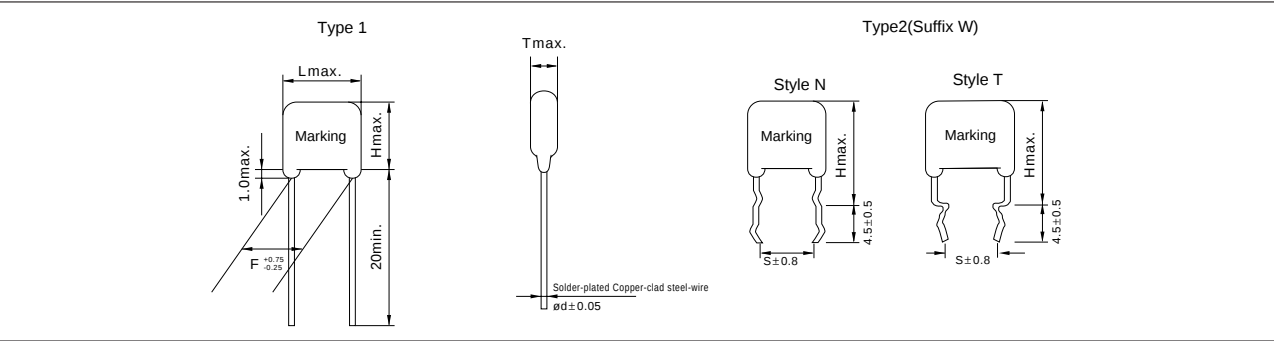
Cap. Tol.

Suffix

■Specifications

Category temp. range	-40 to +85°C
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	$C \leq 0.33\mu F$: 30000 MΩ · μFmin. (20°C, 50 VDC 60s : ECQB1H(F), ECQB1J(F)) $C > 0.33\mu F$: 10000MΩ · μFmin. (20°C, 100VDC 60s : ECQB1(F), ECQB2(F))

■Dimensions in mm(not to scale)

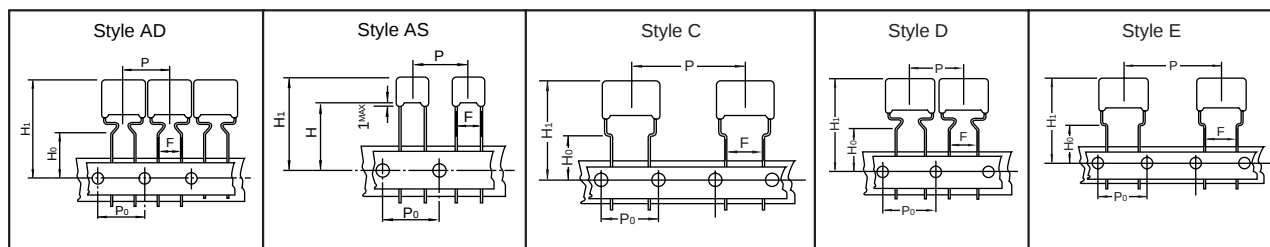


■ Packaging Specifications for Bulk Package

Packing quantity : 100pcs./bag

■ Taping Specifications for Automatic Insertion

● Taping style



● 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
		0.1 to 0.47							Ammo
	200VDC	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
AD	Spacing 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	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	7.0	12.0	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	8.5	13.5	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	9.5	14.5	7.50	5.0	0.60		
ECQB1H154 □F()	0.15	11.0	5.0	10.0	15.0	7.50	5.0	0.60		
ECQB1H184 □F()	0.18	11.0	5.5	10.5	15.5	7.50	5.0	0.60	500	
ECQB1H224 □F()	0.22	11.0	6.0	11.5	16.5	7.50	5.0	0.60		
ECQB1H274 □F()	0.27	13.0	6.0	12.0	17.0	10.00	5.0	0.60	—	—
ECQB1H334 □F()	0.33	13.0	6.5	13.0	18.0	10.00	5.0	0.60		
ECQB1H394 □F()	0.39	13.0	7.0	14.0	19.0	10.00	5.0	0.60		
ECQB1H474 □F()	0.47	13.0	7.5	14.5	19.5	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: ±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					
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	10.5	15.5	5.00	5.0	0.50	500		1000
ECQB1473□F()	0.047	7.5	6.5	11.5	16.5	5.00	5.0	0.50			
ECQB1563□F()	0.056	10.0	5.0	9.5	14.5	7.50	5.0	0.60			
ECQB1683□F()	0.068	10.0	5.5	10.5	15.5	7.50	5.0	0.60			
ECQB1823□F()	0.082	10.0	5.5	12.0	17.0	7.50	5.0	0.60			
ECQB1104□F()	0.1	10.5	6.0	12.5	17.5	7.50	5.0	0.60			
ECQB1124□F()	0.12	10.5	7.0	13.5	18.5	7.50	5.0	0.60	1000		—
ECQB1154□F()	0.15	13.0	7.0	12.0	17.0	10.00	5.0	0.60			
ECQB1184□F()	0.18	13.0	7.5	12.5	17.5	10.00	5.0	0.60	500		
ECQB1224□F()	0.22	13.0	8.0	13.0	18.0	10.00	5.0	0.60			
ECQB1274□F()	0.27	13.0	8.5	15.0	20.0	10.00	5.0	0.60			
ECQB1334□F()	0.33	13.0	9.0	16.0	21.0	10.00	5.0	0.60			
ECQB1394□F()	0.39	13.0	10.5	17.0	22.0	10.00	5.0	0.60			
ECQB1474□F()	0.47	13.0	11.5	17.5	22.5	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	10.0	15.0	7.50	5.0	0.60	
ECQB2223□F()	0.022	11.0	6.0	10.5	15.5	7.50	5.0	0.60	500
ECQB2273□F()	0.027	11.0	6.5	11.5	16.5	7.50	5.0	0.60	
ECQB2333□F()	0.033	11.0	7.0	12.0	17.0	7.50	5.0	0.60	800
ECQB2393□F()	0.039	13.5	5.0	12.5	17.5	10.00	7.5	0.60	
ECQB2473□F()	0.047	13.5	5.5	13.0	18.0	10.00	7.5	0.60	500
ECQB2563□F()	0.056	13.5	6.0	13.5	18.5	10.00	7.5	0.60	
ECQB2683□F()	0.068	16.0	5.5	13.0	18.0	12.50	10.0	0.60	
ECQB2823□F()	0.082	16.0	6.0	13.5	18.5	12.50	10.0	0.60	
ECQB2104□F()	0.1	16.0	7.0	14.5	19.5	12.50	10.0	0.60	
ECQB2124□F()	0.12	19.0	6.5	16.0	21.0	15.00	12.5	0.60	
ECQB2154□F()	0.15	19.0	7.5	17.0	22.0	15.00	12.5	0.60	
ECQB2184□F()	0.18	19.0	8.0	17.5	22.5	15.00	12.5	0.60	
ECQB2224□F()	0.22	19.0	9.0	18.5	23.5	15.00	12.5	0.60	400
ECQB2274□F()	0.27	24.0	8.0	17.5	22.5	20.00	15.0	0.80	
ECQB2334□F()	0.33	24.0	9.0	18.5	23.5	20.00	15.0	0.80	300
ECQB2394□F()	0.39	24.0	10.0	19.5	24.5	20.00	15.0	0.80	
ECQB2474□F()	0.47	24.0	11.5	20.5	25.5	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