

Polyester Film Capacitor

Type: **ECQB**

Designed for high density insertion applications



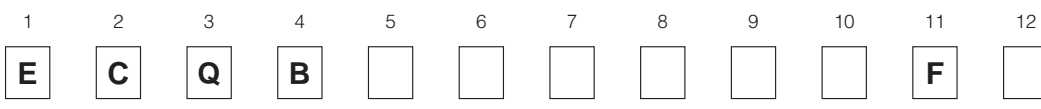
■ Features

- High volumetric efficiency
- Non-inductive construction

■ Recommended Applications

- General purpose

■ Explanation of Part Numbers



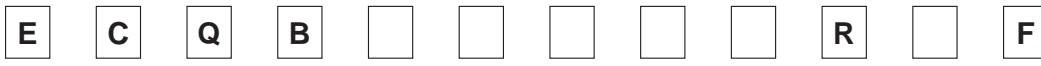
Product code Dielectric & construction Rated voltage Capacitance Cap. Tol. Suffix Suffix

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

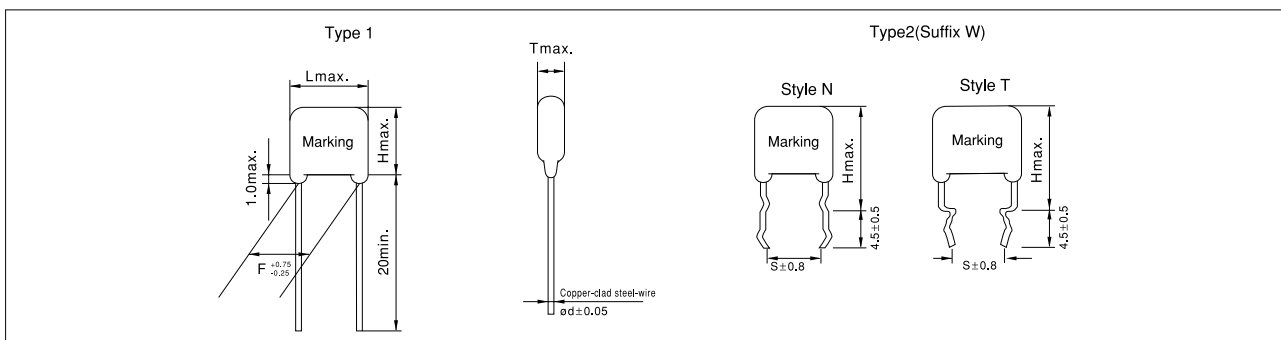


Product code Dielectric & construction Rated voltage Capacitance 7.5mm Crimped lead Cap. Tol. Suffix

■ Specifications

Category temp. range (Including temperature-rise on unit surface)	-40 to +105°C
Rated voltage	50VDC, 63VDC, 100VDC, 200VDC (Derating of rated voltage by 2.5%/°C at more than 85°C)
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	$C \leq 0.33\mu\text{F} : 30000 \text{ M}\Omega \cdot \mu\text{Fmin.}$ (20°C, 50 VDC 60s : ECQB1H(F), ECQB1J(F)) $C > 0.33\mu\text{F} : 10000 \text{ M}\Omega \cdot \mu\text{Fmin.}$ (20°C, 100VDC 60s : ECQB1(F), ECQB2(F))

■ Dimensions in mm(not to scale)

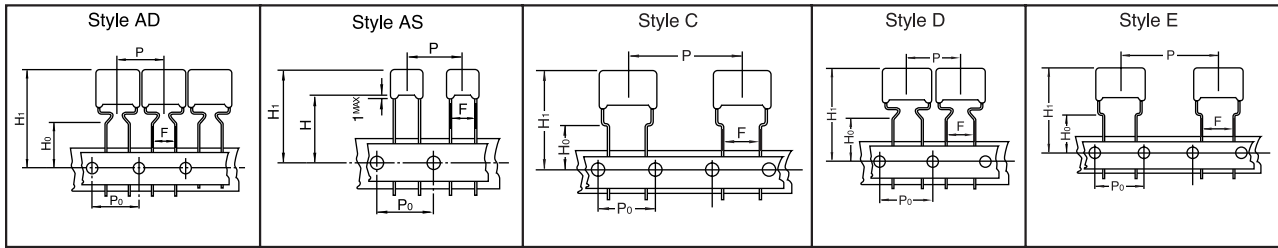


■ Packaging Specifications for Bulk Package

Packing quantity : 100pcs./bag

■ Taping Specifications for Automatic Insertion

● Taping style



* Refer to the taping specification.

● 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 0.12	○						Ammo
		0.0001 to 0.047		○					Ammo
		0.0001 to 0.1	○						Reel
		0.0001 to 0.047		○					Reel
	200VDC	0.15 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	
					○				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	7.0	12.0	5.00	5.0	0.50		
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		
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


Style N: 0.0001 to 0.1 μF
Style T: 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	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

Style N: 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					
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		
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		
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		
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

Style N: 0.0001 to 0.047 μF
 Style T: 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. (μ F)	Dimensions (mm)							Quantity	
		L ^{max.}	T ^{max.}	H ^{max.}		F	S	ϕ d	Ammo	
				Type-1	Type-2	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		
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		
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		
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		
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		
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

Style N: 0.001 to 0.0027 μ F
 Style T: 0.0033 to 0.47 μ F