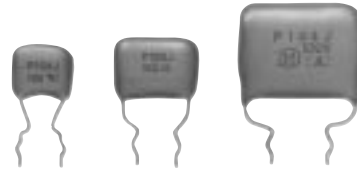


### Polypropylene Film Capacitor

Type: **ECQP(Z)**

Non-inductive construction using Polypropylene film with epoxy resin coating



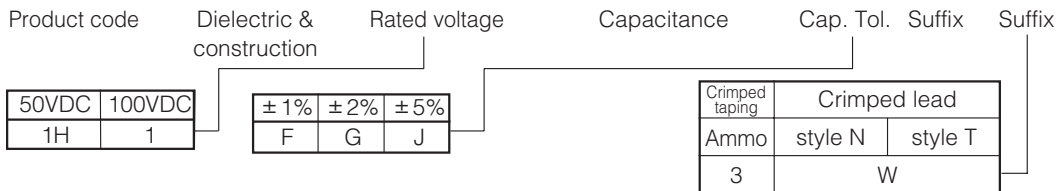
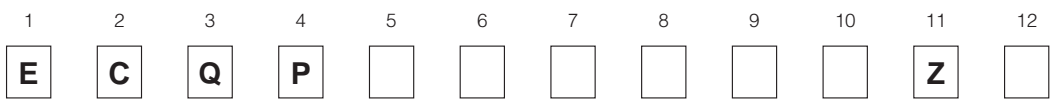
#### ■ Features

- Excellent temperature and frequency characteristics
- Excellent long term stability

#### ■ Recommended Applications

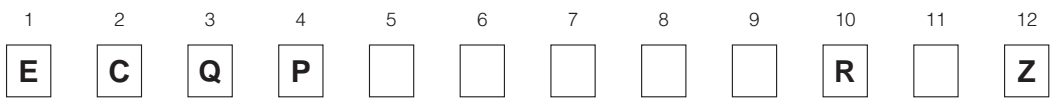
- Dolby circuits
- Oscillation circuits

#### ■ Explanation of Part Numbers



**NOTE: Straight lead not recommended**

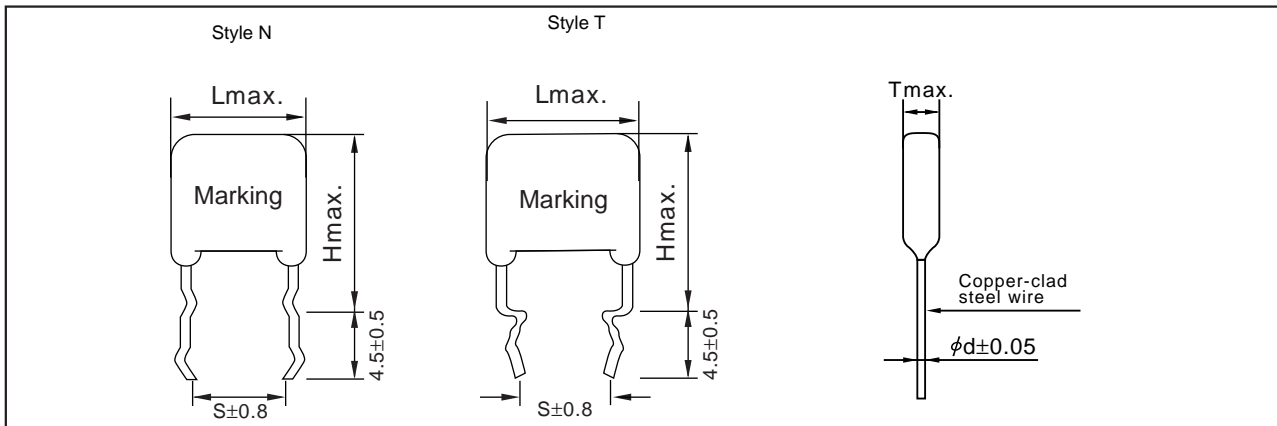
#### ● Explanation of Part Number for Odd Size Taping



#### ■ Specifications

Category temp. range	-40 to +85°C (For a higher temperature than 70°C, derating is required. see page7)
Rated voltage	50VDC, 100VDC (Derating is required according to cap. value. see page7)
Capacitance range	0.0001 to 0.47μF
Capacitance tolerance	±1%(F), ±2%(G), ±5%(J) 50VDC : For cap. value 0.0001 to 0.0003 μF, ±5%(J) only 50VDC : For cap. value 0.00033 to 0.00091 μF, ±2%(G), ±5%(J) only 100VDC : For cap. value 0.0001 to 0.00043 μF, ±5%(J) only 100VDC : For cap. value 0.00047 to 0.00091 μF, ±2%(G), ±5%(J) only
Dissipation factor	0.1% max. (20°C 1kHz)
Withstand voltage	Between terminals: Rated volt. (VDC) × 250% 1 to 5s
Insulation resistance	C ≤ 0.33μF : 45000 MΩ min. C > 0.33μF : 15000 MΩ · μF min. ( 20°C Rated volt. 60s )

■Dimensions in mm(not to scale)

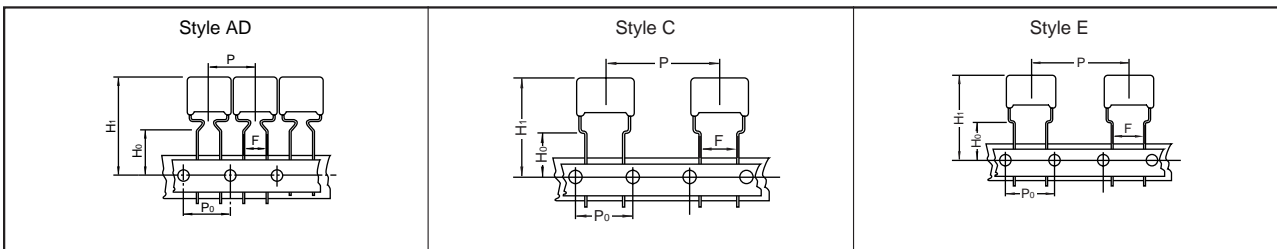


■Packaging Specifications for Bulk Package

■Packing quantity: 100pcs./bag

■Taping Specifications for Automatic Insertion

●Taping style



\*Cap. Tol.  $\pm 1\%$ (F) is not available for taping

\*See page 22 for Taping dimensions

●Packaging Specifications

Type	Rated volt.	Cap. range ( $\mu\text{F}$ )	Taping style						Packing
			AD	AS	B	C	D	E	
ECQP	50VDC	0.0001 to 0.033	○						Ammo
		0.036 to 0.13				○			Ammo
		0.15 to 0.33						○	Ammo
	100VDC	0.0001 to 0.018	○						Ammo
		0.02 to 0.16				○			Ammo
		0.22						○	Ammo

●Lead Spacing

Style	Lead Spacing
AD	5.0mm
C	5.0mm
E	7.5mm

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

■ Rating, Dimensions & Quantity/Ammo Box

● Rated voltage : 50VDC, Capacitance tolerance :  $\pm 1\%$ (F),  $\pm 2\%$ (G),  $\pm 5\%$ (J)

Only  $\pm 5\%$ (J) is available from 0.0001 to 0.0003  $\mu\text{F}$ , Only  $\pm 2\%$ (G),  $\pm 5\%$ (J) is available from 0.00033 to 0.00091  $\mu\text{F}$

Part No.	Cap. ( $\mu\text{F}$ )	Dimensions (mm)					Quantity
		L <sub>max.</sub>	T <sub>max.</sub>	H <sub>max.</sub>	S	$\phi d$	Ammo
ECQP1H101JZ( )	0.0001	8.5	4.5	12.5	5.0	0.50	1000
ECQP1H111JZ( )	0.00011	8.5	4.5	12.5	5.0	0.50	
ECQP1H121JZ( )	0.00012	8.5	4.5	12.5	5.0	0.50	
ECQP1H131JZ( )	0.00013	8.5	4.5	12.5	5.0	0.50	
ECQP1H151JZ( )	0.00015	8.5	4.5	12.5	5.0	0.50	
ECQP1H161JZ( )	0.00016	8.5	4.5	12.5	5.0	0.50	
ECQP1H181JZ( )	0.00018	8.5	4.5	12.5	5.0	0.50	
ECQP1H201JZ( )	0.0002	8.5	4.5	12.5	5.0	0.50	
ECQP1H221JZ( )	0.00022	8.5	4.5	12.5	5.0	0.50	
ECQP1H241JZ( )	0.00024	8.5	4.5	12.5	5.0	0.50	
ECQP1H271JZ( )	0.00027	8.5	4.5	12.5	5.0	0.50	
ECQP1H301JZ( )	0.0003	8.5	4.5	12.5	5.0	0.50	
ECQP1H331□Z( )	0.00033	8.5	4.5	12.5	5.0	0.50	
ECQP1H361□Z( )	0.00036	8.5	4.5	12.5	5.0	0.50	
ECQP1H391□Z( )	0.00039	8.5	4.5	12.5	5.0	0.50	
ECQP1H431□Z( )	0.00043	8.5	4.5	12.5	5.0	0.50	
ECQP1H471□Z( )	0.00047	8.5	4.5	12.5	5.0	0.50	
ECQP1H511□Z( )	0.00051	8.5	4.5	12.5	5.0	0.50	
ECQP1H561□Z( )	0.00056	8.5	4.5	12.5	5.0	0.50	
ECQP1H621□Z( )	0.00062	8.5	4.5	12.5	5.0	0.50	
ECQP1H681□Z( )	0.00068	8.5	4.5	12.5	5.0	0.50	
ECQP1H751□Z( )	0.00075	8.5	4.5	12.5	5.0	0.50	
ECQP1H821□Z( )	0.00082	8.5	4.5	12.5	5.0	0.50	
ECQP1H911□Z( )	0.00091	8.5	4.5	12.5	5.0	0.50	
ECQP1H102□Z( )	0.001	8.5	4.5	12.5	5.0	0.50	
ECQP1H112□Z( )	0.0011	8.5	4.5	12.5	5.0	0.50	
ECQP1H122□Z( )	0.0012	8.5	4.5	12.5	5.0	0.50	
ECQP1H132□Z( )	0.0013	8.5	4.5	12.5	5.0	0.50	
ECQP1H152□Z( )	0.0015	8.5	4.5	12.5	5.0	0.50	
ECQP1H162□Z( )	0.0016	8.5	4.5	12.5	5.0	0.50	
ECQP1H182□Z( )	0.0018	8.5	4.5	12.5	5.0	0.50	
ECQP1H202□Z( )	0.002	8.5	4.5	12.5	5.0	0.50	
ECQP1H222□Z( )	0.0022	8.5	4.5	12.5	5.0	0.50	
ECQP1H242□Z( )	0.0024	8.5	4.5	12.5	5.0	0.50	
ECQP1H272□Z( )	0.0027	8.5	4.5	12.5	5.0	0.50	
ECQP1H302□Z( )	0.003	8.5	4.5	12.5	5.0	0.50	
ECQP1H332□Z( )	0.0033	8.5	4.5	12.5	5.0	0.50	
ECQP1H362□Z( )	0.0036	8.5	4.5	12.5	5.0	0.50	
ECQP1H392□Z( )	0.0039	8.5	4.5	12.5	5.0	0.50	
ECQP1H432□Z( )	0.0043	8.5	4.5	12.5	5.0	0.50	
ECQP1H472□Z( )	0.0047	8.5	4.5	12.5	5.0	0.50	
ECQP1H512□Z( )	0.0051	8.5	4.5	13.0	5.0	0.50	
ECQP1H562□Z( )	0.0056	8.5	4.5	13.0	5.0	0.50	
ECQP1H622□Z( )	0.0062	8.5	5.0	13.0	5.0	0.50	
ECQP1H682□Z( )	0.0068	8.5	5.0	13.0	5.0	0.50	

StyleN:0.0001 to 0.0068  $\mu\text{F}$

■ Rating, Dimensions & Quantity/Ammo Box

● Rated voltage : 50VDC, Capacitance tolerance : ±1% (F), ±2% (G), ±5% (J)

Part No.	Cap. ( $\mu$ F)	Dimensions (mm)					Quantity
		L <sub>max.</sub>	T <sub>max.</sub>	H <sub>max.</sub>	S	$\phi$ d	Ammo
ECQP1H752 □Z( )	0.0075	12.0	5.0	14.0	5.0	0.60	1000
ECQP1H822 □Z( )	0.0082	12.0	5.5	14.0	5.0	0.60	
ECQP1H912 □Z( )	0.0091	12.0	5.0	13.5	5.0	0.60	
ECQP1H103 □Z( )	0.01	12.0	5.0	13.5	5.0	0.60	
ECQP1H113 □Z( )	0.011	12.0	5.0	14.0	5.0	0.60	
ECQP1H123 □Z( )	0.012	12.0	5.5	14.0	5.0	0.60	
ECQP1H133 □Z( )	0.013	12.0	5.0	14.0	5.0	0.60	
ECQP1H153 □Z( )	0.015	12.0	5.0	14.0	5.0	0.60	
ECQP1H163 □Z( )	0.016	12.0	5.5	14.0	5.0	0.60	
ECQP1H183 □Z( )	0.018	12.0	5.5	14.5	5.0	0.60	
ECQP1H203 □Z( )	0.02	12.0	5.5	14.5	5.0	0.60	
ECQP1H223 □Z( )	0.022	12.0	5.5	15.5	5.0	0.60	
ECQP1H243 □Z( )	0.024	12.0	6.0	15.5	5.0	0.60	500
ECQP1H273 □Z( )	0.027	12.0	6.0	16.0	5.0	0.60	
ECQP1H303 □Z( )	0.03	12.0	6.5	16.0	5.0	0.60	
ECQP1H333 □Z( )	0.033	12.0	6.5	16.5	5.0	0.60	
ECQP1H363 □Z( )	0.036	14.5	5.5	17.0	5.0	0.60	
ECQP1H393 □Z( )	0.039	14.5	5.5	17.0	5.0	0.60	
ECQP1H433 □Z( )	0.043	14.5	6.0	17.0	5.0	0.60	
ECQP1H473 □Z( )	0.047	14.5	6.0	17.5	5.0	0.60	
ECQP1H513 □Z( )	0.051	14.5	6.5	18.5	5.0	0.60	
ECQP1H563 □Z( )	0.056	14.5	6.5	18.5	5.0	0.60	
ECQP1H623 □Z( )	0.062	14.5	7.0	19.0	5.0	0.60	
ECQP1H683 □Z( )	0.068	14.5	7.0	19.0	5.0	0.60	
ECQP1H753 □Z( )	0.075	17.0	6.5	18.5	7.5	0.60	400
ECQP1H823 □Z( )	0.082	17.0	7.0	19.0	7.5	0.60	
ECQP1H913 □Z( )	0.091	17.0	7.0	19.0	7.5	0.60	
ECQP1H104 □Z( )	0.1	17.0	7.5	19.5	7.5	0.60	
ECQP1H114 □Z( )	0.11	17.0	8.0	20.5	7.5	0.60	
ECQP1H124 □Z( )	0.12	17.0	8.5	20.5	7.5	0.60	
ECQP1H134 □Z( )	0.13	17.0	8.5	21.0	7.5	0.60	
ECQP1H154 □Z( )	0.15	20.0	8.0	20.5	10.0	0.60	
ECQP1H164 □Z( )	0.16	20.0	8.5	20.5	10.0	0.60	
ECQP1H184 □Z( )	0.18	20.0	9.0	21.0	10.0	0.60	
ECQP1H204 □Z( )	0.20	20.0	9.5	21.5	10.0	0.60	
ECQP1H224 □Z( )	0.22	20.0	9.5	22.0	10.0	0.60	
ECQP1H244 □Z( )	0.24	20.0	10.0	22.5	10.0	0.60	300
ECQP1H274 □Z( )	0.27	20.0	10.5	23.0	10.0	0.60	
ECQP1H304 □Z( )	0.30	22.5	9.5	24.0	12.5	0.80	
ECQP1H334 □Z( )	0.33	22.5	10.0	24.5	12.5	0.80	
ECQP1H364 □Z( )	0.36	22.5	10.5	25.0	12.5	0.80	
ECQP1H394 □Z( )	0.39	22.5	11.0	25.0	12.5	0.80	
ECQP1H434 □Z( )	0.43	22.5	11.5	25.5	12.5	0.80	
ECQP1H474 □Z( )	0.47	22.5	12.0	26.0	12.5	0.80	

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

StyleT:0.0075 to 0.47  $\mu$ F

■ Rating, Dimensions & Quantity/Ammo Box

● Rated voltage : 100VDC, Capacitance tolerance :  $\pm 1\%$  (F),  $\pm 2\%$  (G),  $\pm 5\%$  (J)

Only  $\pm 5\%$  (J) is available from 0.0001 to 0.00043  $\mu\text{F}$ , Only  $\pm 2\%$  (G),  $\pm 5\%$  (J) is available from 0.00047 to 0.00091  $\mu\text{F}$

Part No.	Cap. ( $\mu\text{F}$ )	Dimensions (mm)					Quantity
		L <sub>max.</sub>	T <sub>max.</sub>	H <sub>max.</sub>	S	$\phi d$	Ammo
ECQP1101JZ( )	0.0001	10.0	5.0	13.0	5.0	0.60	1000
ECQP1111JZ( )	0.00011	10.0	5.0	13.0	5.0	0.60	
ECQP1121JZ( )	0.00012	10.0	5.0	13.0	5.0	0.60	
ECQP1131JZ( )	0.00013	10.0	5.0	13.0	5.0	0.60	
ECQP1151JZ( )	0.00015	10.0	5.0	13.0	5.0	0.60	
ECQP1161JZ( )	0.00016	10.0	5.0	13.0	5.0	0.60	
ECQP1181JZ( )	0.00018	10.0	5.0	13.0	5.0	0.60	
ECQP1201JZ( )	0.0002	10.0	5.0	13.0	5.0	0.60	
ECQP1221JZ( )	0.00022	10.0	5.0	13.0	5.0	0.60	
ECQP1241JZ( )	0.00024	10.0	5.0	13.0	5.0	0.60	
ECQP1271JZ( )	0.00027	10.0	5.0	13.0	5.0	0.60	
ECQP1301JZ( )	0.0003	10.0	5.0	13.0	5.0	0.60	
ECQP1331JZ( )	0.00033	10.0	5.0	13.0	5.0	0.60	
ECQP1361JZ( )	0.00036	10.0	5.0	13.0	5.0	0.60	
ECQP1391JZ( )	0.00039	10.0	5.0	13.0	5.0	0.60	
ECQP1431JZ( )	0.00043	10.0	5.0	13.0	5.0	0.60	
ECQP1471□Z( )	0.00047	10.0	5.0	13.0	5.0	0.60	
ECQP1511□Z( )	0.00051	10.0	5.0	13.0	5.0	0.60	
ECQP1561□Z( )	0.00056	10.0	5.0	13.0	5.0	0.60	
ECQP1621□Z( )	0.00062	10.0	5.0	13.0	5.0	0.60	
ECQP1681□Z( )	0.00068	10.0	5.0	13.0	5.0	0.60	
ECQP1751□Z( )	0.00075	10.0	5.0	13.0	5.0	0.60	
ECQP1821□Z( )	0.00082	10.0	5.0	13.0	5.0	0.60	
ECQP1911□Z( )	0.00091	10.0	5.0	13.0	5.0	0.60	
ECQP1102□Z( )	0.001	10.0	5.0	13.0	5.0	0.60	
ECQP1112□Z( )	0.0011	10.0	5.0	13.0	5.0	0.60	
ECQP1122□Z( )	0.0012	10.0	5.0	13.0	5.0	0.60	
ECQP1132□Z( )	0.0013	10.0	5.0	13.0	5.0	0.60	
ECQP1152□Z( )	0.0015	10.0	5.0	13.0	5.0	0.60	
ECQP1162□Z( )	0.0016	10.0	5.0	13.0	5.0	0.60	
ECQP1182□Z( )	0.0018	10.0	5.0	13.0	5.0	0.60	
ECQP1202□Z( )	0.002	10.0	5.0	13.0	5.0	0.60	
ECQP1222□Z( )	0.0022	10.0	5.0	13.0	5.0	0.60	
ECQP1242□Z( )	0.0024	10.0	5.0	13.0	5.0	0.60	
ECQP1272□Z( )	0.0027	10.0	5.0	13.0	5.0	0.60	
ECQP1302□Z( )	0.003	10.0	5.0	13.0	5.0	0.60	
ECQP1332□Z( )	0.0033	10.0	5.0	13.0	5.0	0.60	
ECQP1362□Z( )	0.0036	10.0	5.0	13.0	5.0	0.60	
ECQP1392□Z( )	0.0039	10.0	5.0	13.0	5.0	0.60	
ECQP1432□Z( )	0.0043	10.0	5.0	13.0	5.0	0.60	
ECQP1472□Z( )	0.0047	10.0	5.0	13.0	5.0	0.60	
ECQP1512□Z( )	0.0051	10.0	5.0	13.0	5.0	0.60	
ECQP1562□Z( )	0.0056	10.0	5.0	13.0	5.0	0.60	
ECQP1622□Z( )	0.0062	10.0	5.5	13.0	5.0	0.60	
ECQP1682□Z( )	0.0068	10.0	5.5	13.0	5.0	0.60	

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

StyleN:0.0001 to 0.0068  $\mu\text{F}$

■ Rating, Dimensions & Quantity/Ammo Box

● Rated voltage : 100VDC, Capacitance tolerance : ±1% (F), ±2% (G), ±5% (J)

Part No.	Cap. ( $\mu$ F)	Dimensions (mm)					Quantity
		L <sub>max.</sub>	T <sub>max.</sub>	H <sub>max.</sub>	S	ød	Ammo
ECQP1752□Z()	0.0075	13.0	5.5	14.0	5.0	0.60	1000
ECQP1822□Z()	0.0082	13.0	5.5	14.0	5.0	0.60	
ECQP1912□Z()	0.0091	13.0	5.0	13.0	5.0	0.60	
ECQP1103□Z()	0.01	13.0	5.0	13.5	5.0	0.60	
ECQP1113□Z()	0.011	13.0	5.0	13.5	5.0	0.60	
ECQP1123□Z()	0.012	13.0	5.0	13.5	5.0	0.60	
ECQP1133□Z()	0.013	13.0	5.0	13.5	5.0	0.60	
ECQP1153□Z()	0.015	13.0	5.5	14.0	5.0	0.60	
ECQP1163□Z()	0.016	13.0	5.5	14.0	5.0	0.60	
ECQP1183□Z()	0.018	13.0	6.0	15.0	5.0	0.60	
ECQP1203□Z()	0.02	16.0	5.5	15.0	5.0	0.60	500
ECQP1223□Z()	0.022	16.0	5.5	15.0	5.0	0.60	
ECQP1243□Z()	0.024	16.0	5.5	15.0	5.0	0.60	
ECQP1273□Z()	0.027	16.0	6.0	15.0	5.0	0.60	
ECQP1303□Z()	0.03	16.0	6.0	15.5	5.0	0.60	
ECQP1333□Z()	0.033	16.0	6.5	15.5	5.0	0.60	
ECQP1363□Z()	0.036	16.0	6.5	15.5	5.0	0.60	
ECQP1393□Z()	0.039	16.0	7.0	16.0	5.0	0.60	
ECQP1433□Z()	0.043	16.0	7.5	16.0	5.0	0.60	
ECQP1473□Z()	0.047	16.0	7.5	16.5	5.0	0.60	
ECQP1513□Z()	0.051	18.0	6.5	17.0	7.5	0.60	—
ECQP1563□Z()	0.056	18.0	6.5	17.0	7.5	0.60	
ECQP1623□Z()	0.062	18.0	7.0	17.5	7.5	0.60	
ECQP1683□Z()	0.068	18.0	7.0	17.5	7.5	0.60	
ECQP1753□Z()	0.075	18.0	7.0	18.0	7.5	0.60	
ECQP1823□Z()	0.082	18.0	7.0	18.5	7.5	0.60	
ECQP1913□Z()	0.091	18.0	7.5	18.5	7.5	0.60	
ECQP1104□Z()	0.1	18.5	7.5	19.0	7.5	0.60	
ECQP1114□Z()	0.11	18.5	7.5	19.0	10.0	0.60	
ECQP1124□Z()	0.12	18.5	8.5	19.5	10.0	0.60	
ECQP1134□Z()	0.13	18.5	9.0	20.0	10.0	0.60	300
ECQP1154□Z()	0.15	18.5	9.5	20.5	10.0	0.60	
ECQP1164□Z()	0.16	18.5	9.5	20.5	12.5	0.60	
ECQP1184□Z()	0.18	19.0	10.0	21.0	12.5	0.60	
ECQP1204□Z()	0.20	19.0	10.5	21.5	12.5	0.60	
ECQP1224□Z()	0.22	19.0	11.0	22.0	12.5	0.60	
ECQP1244□Z()	0.24	25.0	9.0	21.5	12.5	0.80	
ECQP1274□Z()	0.27	25.0	9.5	22.0	12.5	0.80	
ECQP1304□Z()	0.30	25.0	10.0	22.5	12.5	0.80	
ECQP1334□Z()	0.33	25.0	10.0	23.0	12.5	0.80	
ECQP1364□Z()	0.36	25.0	10.5	23.5	12.5	0.80	—
ECQP1394□Z()	0.39	25.0	11.0	24.0	12.5	0.80	
ECQP1434□Z()	0.43	25.0	11.5	24.5	12.5	0.80	
ECQP1474□Z()	0.47	25.0	12.0	25.0	12.5	0.80	

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

StyleT: 0.0075 to 0.15, 0.24 to 0.47  $\mu$ F
   
 StyleN: 0.16 to 0.22  $\mu$ F