

Metallized Polyester Film Capacitor

Type: **ECQUL [Class X2] [Class Y2/X2]**

In accordance with UL/CSA and European safety regulation class X2 or class Y2/X2

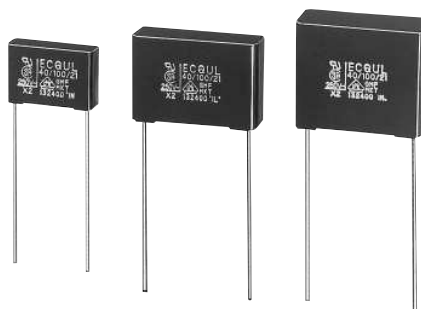
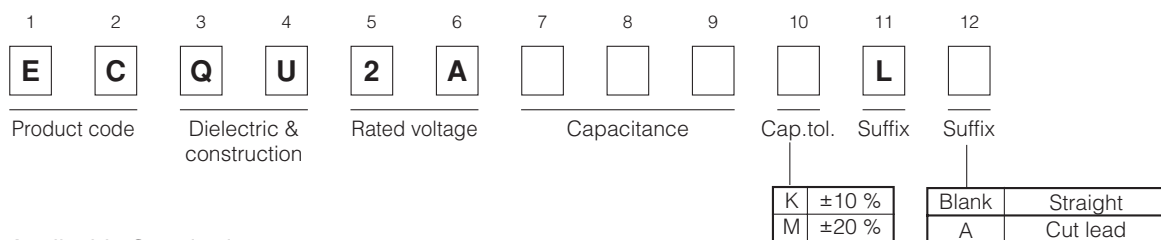
■ Features

- Compact
- Flame-retardant plastic case and non-combustible resin
- RoHS directive compliant

■ Recommended Applications

- Interference suppressors

■ Explanation of Part Numbers



■ Applicable Standard

UL	UL 1414	Across - The - Line Capacitors Antenna - Coupling and Line - By - Pass Components	(0.0010 μF to 1.0 μF)
	UL 1283	Electromagnetic Interference Filters	(1.2 μF to 2.2 μF)
CSA	CAN/CSA E60384-14	Class Y2/X2	(0.0010 μF to 0.0068 μF)
		Class X2	(0.0082 μF to 2.2 μF)
	CSA C22.2 No.8 - M1986	Electromagnetic Interference (EMI) Filters	(1.2 μF to 2.2 μF)
VDE	IEC60384-14 EN60384-14	Class Y2/X2	(0.0010 μF to 0.0068 μF)
		Class X2	(0.0082 μF to 2.2 μF)

*When applying this capacitor to European and American safety standards, please use type designation and rating such as ECQUL, 0.1 μF.

*Approval number (File No.) of safety regulations are subject to revision without notice. Ask factory for a copy of the latest file No

*This capacitor is recognized for European standards by VDE only. But, there are no problems using this capacitor in a device which will get approvals from certification bodies in Europe, SEMKO, DEMKO, NEMKO, FIMKO and SEV etc. except VDE.

■ Specifications

Category temp. range	-40 °C to +100 °C (85 °C max. on UL/CSA C22.2 No.8 spec.)
Rated voltage	275 VAC (IEC60384-14, CAN/CSA E60384-14), 250 VAC(UL/CSA C22.2 No.8)
Capacitance range	0.0010 μF to 2.2 μF
Capacitance tolerance	± 10 % (K), ± 20 % (M)
Dissipation factor (tanδ)	tanδ ≤ 1.0 % (20 °C, 1 kHz)
Withstand voltage	Between terminals: 575 VAC, 1768 VDC 60 s (0.0082 μF to 2.2 μF) Between terminals: 1500 VAC, 2121 VDC 60 s (0.0010 μF to 0.0068 μF) Between terminals to enclosure: 2050 VAC 60 s
Insulation resistance (IR)	C ≤ 0.33 μF : IR ≥ 15000 MΩ (20 °C, 100 VDC, 60 s) C > 0.33 μF : IR ≥ 5000 MΩ · μF (20 °C, 100 VDC, 60 s) IR ≥ 2000 MΩ (20 °C, 500 VDC, 60 s)

* Use of this capacitor is limited to AC voltage (50 Hz or 60 Hz sine wave).

■ Dimensions in mm (not to scale)

STYLE	A side	B side	C side
1 0.0010 \square F to 0.0068 \square F	\square .001 \square F K	ECQUQL 275 V~Y2X2 40/100/21 \square 250 V~	GMF MKT 132400
2 0.0082 \square F to 0.047 \square F	\square .033 \square F K	ECQUQL 275 V~X2 40/100/21 \square 250 V~	GMF MKT 132400
3 0.056 \square F to 1.0 \square F	\square .068 \square F K	ECQUQL 40/100/21 GMF MKT 132400 \square 250 V~ X2	
4 1.2 \square F to 2.2 \square F	\square .15 \square F K	1283 8X 250 V~ X2 ECQUQL 40/100/21 GMF MKT 132400 \square	

Note : only $\pm 10\%$ as cap. tol. be marked as "K". Note \square Date Code.

■ Rating & Dimensions

● Capacitance tolerance : $\pm 10\%$ (K), $\pm 20\%$ (M)

Part No.	Cap. (μ F)	Dimensions (mm)							Min. order Q'ty
		L	T	H	F	ϕd	P	Q	
ECQU2A102 \square L()	0.0010	15.0	5.0	11.5	12.5	0.60	0 \pm 0.5	1.3	500
ECQU2A122 \square L()	0.0012	15.0	5.0	11.5	12.5	0.60	0 \pm 0.5	1.3	
ECQU2A152 \square L()	0.0015	15.0	5.0	11.5	12.5	0.60	0 \pm 0.5	1.3	
ECQU2A182 \square L()	0.0018	15.0	5.0	11.5	12.5	0.60	0 \pm 0.5	1.3	
ECQU2A222 \square L()	0.0022	15.0	5.0	11.5	12.5	0.60	0 \pm 0.5	1.3	
ECQU2A272 \square L()	0.0027	15.0	5.0	11.5	12.5	0.60	0 \pm 0.5	1.3	
ECQU2A332 \square L()	0.0033	15.0	5.0	11.5	12.5	0.60	0 \pm 0.5	1.3	
ECQU2A392 \square L()	0.0039	15.0	5.0	11.5	12.5	0.60	0 \pm 0.5	1.3	
ECQU2A472 \square L()	0.0047	15.0	5.0	11.5	12.5	0.60	0 \pm 0.5	1.3	
ECQU2A562 \square L()	0.0056	15.0	5.0	11.5	12.5	0.60	0 \pm 0.5	1.3	
ECQU2A682 \square L()	0.0068	15.0	5.0	11.5	12.5	0.60	0 \pm 0.5	1.3	
ECQU2A822 \square L()	0.0082	15.0	5.0	11.5	12.5	0.60	0 \pm 0.5	1.3	
ECQU2A103 \square L()	0.010	15.0	5.0	11.5	12.5	0.60	0 \pm 0.5	1.3	
ECQU2A123 \square L()	0.012	15.0	5.0	11.5	12.5	0.60	0 \pm 0.5	1.3	
ECQU2A153 \square L()	0.015	15.0	5.0	11.5	12.5	0.60	0 \pm 0.5	1.3	
ECQU2A183 \square L()	0.018	15.0	5.0	11.5	12.5	0.60	0 \pm 0.5	1.3	
ECQU2A223 \square L()	0.022	15.0	5.0	11.5	12.5	0.60	0 \pm 0.5	1.3	
ECQU2A273 \square L()	0.027	15.0	5.0	11.5	12.5	0.60	0 \pm 0.5	1.3	
ECQU2A333 \square L()	0.033	15.0	6.0	13.0	12.5	0.60	0 \pm 0.5	1.3	
ECQU2A393 \square L()	0.039	15.0	6.0	13.0	12.5	0.60	0 \pm 0.5	1.3	
ECQU2A473 \square L()	0.047	15.0	6.0	13.0	12.5	0.60	0 \pm 0.5	1.3	
ECQU2A563 \square L()	0.056	17.5	4.5	11.5	15.0	0.60	0 \pm 0.5	1.3	
ECQU2A683 \square L()	0.068	17.5	4.5	11.5	15.0	0.60	0 \pm 0.5	1.3	
ECQU2A823 \square L()	0.082	17.5	5.5	12.0	15.0	0.60	0 \pm 0.5	1.3	
ECQU2A104 \square L()	0.10	17.5	5.5	12.0	15.0	0.60	0 \pm 0.5	1.3	
ECQU2A124 \square L()	0.12	17.5	6.5	14.5	15.0	0.60	0 \pm 0.5	1.3	
ECQU2A154 \square L()	0.15	17.5	6.5	14.5	15.0	0.60	0 \pm 0.5	1.3	
ECQU2A184 \square L()	0.18	17.5	8.0	16.0	15.0	0.60	0 \pm 0.5	1.3	
ECQU2A224 \square L()	0.22	17.5	8.0	16.0	15.0	0.60	0 \pm 0.5	1.3	
ECQU2A274 \square L()	0.27	17.5	9.5	17.5	15.0	0.80	0 \pm 0.5	1.3	
ECQU2A334 \square L()	0.33	17.5	9.5	17.5	15.0	0.80	0 \pm 0.5	1.3	
ECQU2A394 \square L()	0.39	25.5	8.5	17.5	22.5	0.80	0 \pm 0.75	1.5	
ECQU2A474 \square L()	0.47	25.5	8.5	17.5	22.5	0.80	0 \pm 0.75	1.5	
ECQU2A564 \square L()	0.56	25.5	10.5	19.5	22.5	0.80	0 \pm 0.75	1.5	
ECQU2A684 \square L()	0.68	25.5	10.5	19.5	22.5	0.80	0 \pm 0.75	1.5	
ECQU2A824 \square L()	0.82	25.5	12.0	22.0	22.5	0.80	0 \pm 0.75	1.5	
ECQU2A105 \square L()	1.0	25.5	12.0	22.0	22.5	0.80	0 \pm 0.75	1.5	
ECQU2A125 \square L()	1.2	30.5	16.5	26.0	27.5	0.80	0 \pm 0.75	1.5	
ECQU2A155 \square L()	1.5	30.5	16.5	26.0	27.5	0.80	0 \pm 0.75	1.5	
ECQU2A185 \square L()	1.8	30.5	19.0	29.5	27.5	0.80	0 \pm 0.75	1.5	
ECQU2A225 \square L()	2.2	30.5	19.0	29.5	27.5	0.80	0 \pm 0.75	1.5	

Suffix for lead form
 Cap. tol. code

Design, Specifications are subject to change without notice. Ask factory for technical specifications before purchase and/or use. Whenever a doubt about safety arises from this product, please inform us immediately for technical consultation without fail.

Interference Suppressor