

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

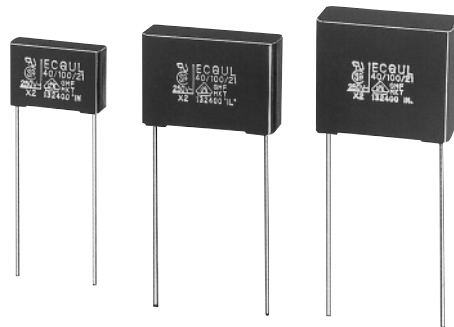
- Compact
- Flame-retardant plastic case and non-combustible resin
- RoHS directive compliant

■ Recommended Applications

- Interference suppressors

■ Explanation of Part Numbers

1	2	3	4	5	6	7	8	9	10	11	12
E	C	Q	U	2	A					L	
Product code	Dielectric & construction			Rated voltage	Capacitance			Cap.tol.	Suffix		Suffix
								K ±10 %			Blank Straight
								M ±20 %			A Cut lead



■ Applicable Standard

Approval	Class	Capacitance range	Certification organization
UL	UL60384-14	Class Y2/X2 (0.0010 μF to 0.0068 μF)	UL
		Class X2 (0.0082 μF to 2.2 μF)	
CSA	CAN/CSA E60384-14	Class Y2/X2 (0.0010 μF to 0.0068 μF)	CSA
		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)	
Europe	EN60384-14	Class Y2/X2 (0.0010 μF to 0.0068 μF)	VDE
		Class X2 (0.0082 μF to 2.2 μF)	
International	IEC60384-14	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 CSA C22.2 No.8 spec.)
Rated voltage	275 VAC (250 VAC on CSA C22.2 No.8 spec.)
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).

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.

■ Dimensions in mm (not to scale)

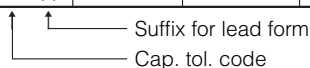
STYLE	(A) side	(B) side
1 0.0010 μ F to 0.0068 μ F	$\text{M} .001 \mu\text{F} \text{ K}$	ECQU 275V ~ X2/Y2 <input type="checkbox"/>
2 0.0082 μ F to 1.0 μ F	$\text{M} .0082 \mu\text{F} \text{ K}$	ECQU 275V ~ X2 <input type="checkbox"/>
3 1.2 μ F to 2.2 μ F	$\text{M} 1.5 \mu\text{F} \text{ K}$	ECQU 275V ~ 8X 250V ~ X2 <input type="checkbox"/>

Note : only $\pm 10\%$ as cap. tol. be marked as "K". Note 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□L()	0.0010	15.0	5.0	11.5	12.5	0.60	0 \pm 0.5	1.3	500
ECQU2A122□L()	0.0012	15.0	5.0	11.5	12.5	0.60	0 \pm 0.5	1.3	
ECQU2A152□L()	0.0015	15.0	5.0	11.5	12.5	0.60	0 \pm 0.5	1.3	
ECQU2A182□L()	0.0018	15.0	5.0	11.5	12.5	0.60	0 \pm 0.5	1.3	
ECQU2A222□L()	0.0022	15.0	5.0	11.5	12.5	0.60	0 \pm 0.5	1.3	
ECQU2A272□L()	0.0027	15.0	5.0	11.5	12.5	0.60	0 \pm 0.5	1.3	
ECQU2A332□L()	0.0033	15.0	5.0	11.5	12.5	0.60	0 \pm 0.5	1.3	
ECQU2A392□L()	0.0039	15.0	5.0	11.5	12.5	0.60	0 \pm 0.5	1.3	
ECQU2A472□L()	0.0047	15.0	5.0	11.5	12.5	0.60	0 \pm 0.5	1.3	
ECQU2A562□L()	0.0056	15.0	5.0	11.5	12.5	0.60	0 \pm 0.5	1.3	
ECQU2A682□L()	0.0068	15.0	5.0	11.5	12.5	0.60	0 \pm 0.5	1.3	
ECQU2A822□L()	0.0082	15.0	5.0	11.5	12.5	0.60	0 \pm 0.5	1.3	
ECQU2A103□L()	0.010	15.0	5.0	11.5	12.5	0.60	0 \pm 0.5	1.3	
ECQU2A123□L()	0.012	15.0	5.0	11.5	12.5	0.60	0 \pm 0.5	1.3	
ECQU2A153□L()	0.015	15.0	5.0	11.5	12.5	0.60	0 \pm 0.5	1.3	
ECQU2A183□L()	0.018	15.0	5.0	11.5	12.5	0.60	0 \pm 0.5	1.3	
ECQU2A223□L()	0.022	15.0	5.0	11.5	12.5	0.60	0 \pm 0.5	1.3	
ECQU2A273□L()	0.027	15.0	5.0	11.5	12.5	0.60	0 \pm 0.5	1.3	
ECQU2A333□L()	0.033	15.0	6.0	13.0	12.5	0.60	0 \pm 0.5	1.3	
ECQU2A393□L()	0.039	15.0	6.0	13.0	12.5	0.60	0 \pm 0.5	1.3	
ECQU2A473□L()	0.047	15.0	6.0	13.0	12.5	0.60	0 \pm 0.5	1.3	
ECQU2A563□L()	0.056	17.5	4.5	11.5	15.0	0.60	0 \pm 0.5	1.3	
ECQU2A683□L()	0.068	17.5	4.5	11.5	15.0	0.60	0 \pm 0.5	1.3	
ECQU2A823□L()	0.082	17.5	5.5	12.0	15.0	0.60	0 \pm 0.5	1.3	
ECQU2A104□L()	0.10	17.5	5.5	12.0	15.0	0.60	0 \pm 0.5	1.3	
ECQU2A124□L()	0.12	17.5	6.5	14.5	15.0	0.60	0 \pm 0.5	1.3	
ECQU2A154□L()	0.15	17.5	6.5	14.5	15.0	0.60	0 \pm 0.5	1.3	
ECQU2A184□L()	0.18	17.5	8.0	16.0	15.0	0.60	0 \pm 0.5	1.3	
ECQU2A224□L()	0.22	17.5	8.0	16.0	15.0	0.60	0 \pm 0.5	1.3	
ECQU2A274□L()	0.27	17.5	9.5	17.5	15.0	0.80	0 \pm 0.5	1.3	
ECQU2A334□L()	0.33	17.5	9.5	17.5	15.0	0.80	0 \pm 0.5	1.3	
ECQU2A394□L()	0.39	25.5	8.5	17.5	22.5	0.80	0 \pm 0.75	1.5	
ECQU2A474□L()	0.47	25.5	8.5	17.5	22.5	0.80	0 \pm 0.75	1.5	
ECQU2A564□L()	0.56	25.5	10.5	19.5	22.5	0.80	0 \pm 0.75	1.5	
ECQU2A684□L()	0.68	25.5	10.5	19.5	22.5	0.80	0 \pm 0.75	1.5	
ECQU2A824□L()	0.82	25.5	12.0	22.0	22.5	0.80	0 \pm 0.75	1.5	
ECQU2A105□L()	1.0	25.5	12.0	22.0	22.5	0.80	0 \pm 0.75	1.5	
ECQU2A125□L()	1.2	30.5	16.5	26.0	27.5	0.80	0 \pm 0.75	1.5	
ECQU2A155□L()	1.5	30.5	16.5	26.0	27.5	0.80	0 \pm 0.75	1.5	
ECQU2A185□L()	1.8	30.5	19.0	29.5	27.5	0.80	0 \pm 0.75	1.5	
ECQU2A225□L()	2.2	30.5	19.0	29.5	27.5	0.80	0 \pm 0.75	1.5	



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