

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

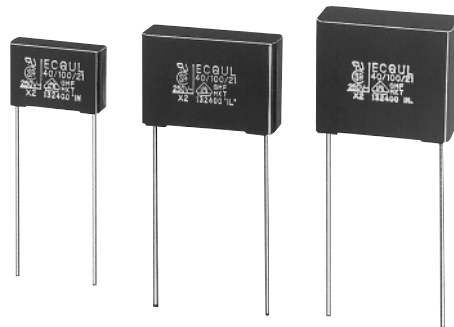
- Compact
- Flame-retardant plastic case and non-combustible resin
- RoHS directive compliant

■ 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 % M ±20 %	Blank A	Straight 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).

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■ Dimensions in mm (not to scale)

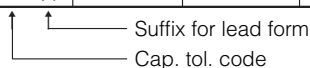
STYLE	(A) side	(B) side
1 0.0010 μ F to 0.0068 μ F	$\text{M} .001 \mu\text{F} \text{ K}$	ECQU 275V ~ X2/Y2 <input type="checkbox"/>
2 0.0082 μ F to 1.0 μ F	$\text{M} .0082 \mu\text{F} \text{ K}$	ECQU 275V ~ X2 <input type="checkbox"/>
3 1.2 μ F to 2.2 μ F	$\text{M} 1.5 \mu\text{F} \text{ K}$	ECQU 275V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



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Interference Suppressor