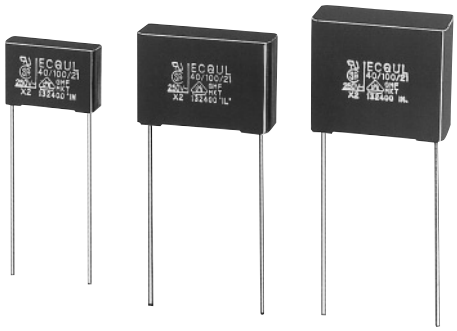
Metallized Polyester Film Capacitor

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	Straight
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

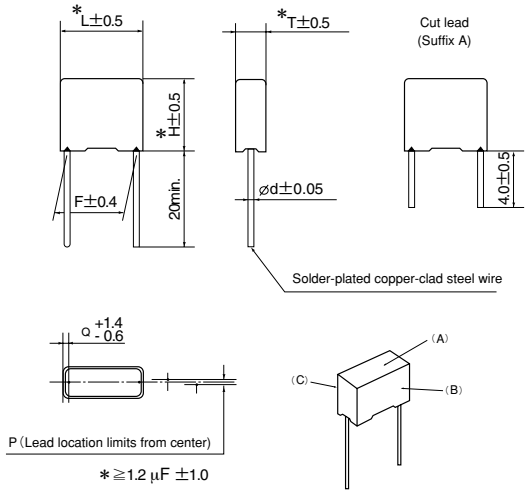
❉This capacitor is recognized for European standards by VDE only. But, there are no problems using this capacitor in a device which will get approvals from certification bodies in Europe, SEMKO, DEMKO, NEMKO, FIMKO and SEV etc. except VDE.

■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).

■Dimensions in mm (not to scale)



Marking Example

STYLE	(A) side	(B) side
1 0.0010 μF to 0.0068 μF	Ⓜ.001 μF K	ECQUL 275V～ X2/Y2 □
2 0.0082 μF to 1.0 μF	Ⓜ .0082 μF K	ECQUL 275V～ X2 □
3 1.2 μF to 2.2 μF	Ⓜ 1.5 μF K	8X 250V～ ECQUL 275V～ X2 □

Note : only ±10 % as cap. tol. be marked as"K". Note□Date Code.

■Rating & Dimensions

● Capacitance tolerance : ±10 %(K), ±20 %(M)

Part No.	Cap. (μF)	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±0.5	1.3	
ECQU2A122□L( )	0.0012	15.0	5.0	11.5	12.5	0.60	0±0.5	1.3	
ECQU2A152□L( )	0.0015	15.0	5.0	11.5	12.5	0.60	0±0.5	1.3	
ECQU2A182□L( )	0.0018	15.0	5.0	11.5	12.5	0.60	0±0.5	1.3	
ECQU2A222□L( )	0.0022	15.0	5.0	11.5	12.5	0.60	0±0.5	1.3	
ECQU2A272□L( )	0.0027	15.0	5.0	11.5	12.5	0.60	0±0.5	1.3	
ECQU2A332□L( )	0.0033	15.0	5.0	11.5	12.5	0.60	0±0.5	1.3	
ECQU2A392□L( )	0.0039	15.0	5.0	11.5	12.5	0.60	0±0.5	1.3	
ECQU2A472□L( )	0.0047	15.0	5.0	11.5	12.5	0.60	0±0.5	1.3	
ECQU2A562□L( )	0.0056	15.0	5.0	11.5	12.5	0.60	0±0.5	1.3	
ECQU2A682□L( )	0.0068	15.0	5.0	11.5	12.5	0.60	0±0.5	1.3	
ECQU2A822□L( )	0.0082	15.0	5.0	11.5	12.5	0.60	0±0.5	1.3	
ECQU2A103□L( )	0.010	15.0	5.0	11.5	12.5	0.60	0±0.5	1.3	
ECQU2A123□L( )	0.012	15.0	5.0	11.5	12.5	0.60	0±0.5	1.3	
ECQU2A153□L( )	0.015	15.0	5.0	11.5	12.5	0.60	0±0.5	1.3	
ECQU2A183□L( )	0.018	15.0	5.0	11.5	12.5	0.60	0±0.5	1.3	
ECQU2A223□L( )	0.022	15.0	5.0	11.5	12.5	0.60	0±0.5	1.3	
ECQU2A273□L( )	0.027	15.0	5.0	11.5	12.5	0.60	0±0.5	1.3	
ECQU2A333□L( )	0.033	15.0	6.0	13.0	12.5	0.60	0±0.5	1.3	
ECQU2A393□L( )	0.039	15.0	6.0	13.0	12.5	0.60	0±0.5	1.3	
ECQU2A473□L( )	0.047	15.0	6.0	13.0	12.5	0.60	0±0.5	1.3	500
ECQU2A563□L( )	0.056	17.5	4.5	11.5	15.0	0.60	0±0.5	1.3	
ECQU2A683□L( )	0.068	17.5	4.5	11.5	15.0	0.60	0±0.5	1.3	
ECQU2A823□L( )	0.082	17.5	5.5	12.0	15.0	0.60	0±0.5	1.3	
ECQU2A104□L( )	0.10	17.5	5.5	12.0	15.0	0.60	0±0.5	1.3	
ECQU2A124□L( )	0.12	17.5	6.5	14.5	15.0	0.60	0±0.5	1.3	
ECQU2A154□L( )	0.15	17.5	6.5	14.5	15.0	0.60	0±0.5	1.3	
ECQU2A184□L( )	0.18	17.5	8.0	16.0	15.0	0.60	0±0.5	1.3	
ECQU2A224□L( )	0.22	17.5	8.0	16.0	15.0	0.60	0±0.5	1.3	
ECQU2A274□L( )	0.27	17.5	9.5	17.5	15.0	0.80	0±0.5	1.3	
ECQU2A334□L( )	0.33	17.5	9.5	17.5	15.0	0.80	0±0.5	1.3	
ECQU2A394□L( )	0.39	25.5	8.5	17.5	22.5	0.80	0±0.75	1.5	
ECQU2A474□L( )	0.47	25.5	8.5	17.5	22.5	0.80	0±0.75	1.5	
ECQU2A564□L( )	0.56	25.5	10.5	19.5	22.5	0.80	0±0.75	1.5	
ECQU2A684□L( )	0.68	25.5	10.5	19.5	22.5	0.80	0±0.75	1.5	
ECQU2A824□L( )	0.82	25.5	12.0	22.0	22.5	0.80	0±0.75	1.5	
ECQU2A105□L( )	1.0	25.5	12.0	22.0	22.5	0.80	0±0.75	1.5	
ECQU2A125□L( )	1.2	30.5	16.5	26.0	27.5	0.80	0±0.75	1.5	
ECQU2A155□L( )	1.5	30.5	16.5	26.0	27.5	0.80	0±0.75	1.5	
ECQU2A185□L( )	1.8	30.5	19.0	29.5	27.5	0.80	0±0.75	1.5	
ECQU2A225□L( )	2.2	30.5	19.0	29.5	27.5	0.80	0±0.75	1.5	

Suffix for lead form

Cap. tol. code