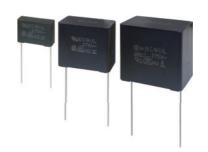


## Metallized Polyester Film Capacitor

Series : **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 number** 2 3 10 11 12 C Ε Q U 2 Α L Product code Dielectric & Rated voltage Capacitance Cap. Tol. Suffix Suffix construction ±10 % Lead Form Code Κ ±20 % Μ Blank Straight Cut lead

#### **Applicable standard**

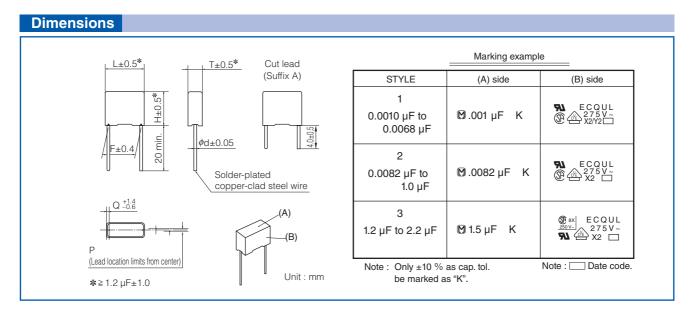
\* It is certified as type ECQUL in the following approval.

Approval		Class	Capacitance range	Certification organization		
UL	UL60384-14	Class Y2/X2	(0.0010 μF to 0.0068 μF)	· UL		
	0100304-14	Class X2	(0.0082 μF to 2.2 μF)			
CSA	CAN/CSA E60384-14	Class Y2/X2	(0.0010 μF to 0.0068 μF)			
	CAN/CSA E00304-14	Class X2	(0.0082 μF to 2.2 μF)	CSA		
	CSA C22.2 No.8-M1986	Electromagnetic Interference (EMI) Filters	(1.2 μF to 2.2 μF)	COA		
Europe	EN60384-14	Class Y2/X2	(0.0010 μF to 0.0068 μF)	- VDE		
	LIN00304-14	Class X2	(0.0082 μF to 2.2 μF)			
International	IEC60384-14	Class Y2/X2	(0.0010 μF to 0.0068 μF)			
	12000304-14	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.

Specifications						
Category temperature range	-40 °C to +100 °C (85 °C max. on CSA C22.2 No.8 spec.)					
Rated voltage	275 V.AC (250 V.AC on CSA C22.2 No.8 spec.)					
Rated capacitance	0.0010 μF to 2.2 μF					
Capacitance tolerance	±10 % (K), ±20 % (M)					
Dissipation factor (tan $\delta$ )	tan <i>δ</i> ≤ 1.0 % (20 °C, 1 kHz)					
Withstand voltage	Between terminals : 575 V.AC, 1768 V.DC, 60 s (0.0082 μF to 2.2 μF) Between terminals : 1500 V.AC, 2121 V.DC, 60 s (0.0010 μF to 0.0068 μF) Between terminals to enclosure : 2050 V.AC, 60 s					
Insulation resistance (IR)	$C ≤ 0.33 \ μF : IR ≥ 15000 \ MΩ$ (20 °C, 100 V.DC, 60 s) $C > 0.33 \ μF : IR ≥ 5000 \ MΩ \cdot μF$ (20 °C, 100 V.DC, 60 s) $IR ≥ 2000 \ MΩ$ (20 °C, 500 V.DC, 60 s)					





#### Rating · Dimensions · Quantity

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

Part No.	Capacitance	Dimensions (mm)					Min. order Q'ty			
	(μF)	L	T	Н	F	<i>ø</i> d	Р	Q	Straight	Cut lead
ECQU2A102□L( )	0.0010	15.0	5.0	11.5	12.5	0.6	0±0.50	1.3		500
ECQU2A122□L( )	0.0012	15.0	5.0	11.5	12.5	0.6	0±0.50	1.3		
ECQU2A152□L( )	0.0015	15.0	5.0	11.5	12.5	0.6	0±0.50	1.3		
ECQU2A182□L( )	0.0018	15.0	5.0	11.5	12.5	0.6	0±0.50	1.3		
ECQU2A222□L( )	0.0022	15.0	5.0	11.5	12.5	0.6	0±0.50	1.3		
ECQU2A272□L( )	0.0027	15.0	5.0	11.5	12.5	0.6	0±0.50	1.3		
ECQU2A332□L( )	0.0033	15.0	5.0	11.5	12.5	0.6	0±0.50	1.3		
ECQU2A392□L( )	0.0039	15.0	5.0	11.5	12.5	0.6	0±0.50	1.3		
ECQU2A472□L( )	0.0047	15.0	5.0	11.5	12.5	0.6	0±0.50	1.3		
ECQU2A562□L( )	0.0056	15.0	5.0	11.5	12.5	0.6	0±0.50	1.3		
ECQU2A682□L( )	0.0068	15.0	5.0	11.5	12.5	0.6	0±0.50	1.3		
ECQU2A822□L( )	0.0082	15.0	5.0	11.5	12.5	0.6	0±0.50	1.3		
ECQU2A103□L( )	0.010	15.0	5.0	11.5	12.5	0.6	0±0.50	1.3	]	
ECQU2A123□L( )	0.012	15.0	5.0	11.5	12.5	0.6	0±0.50	1.3		
ECQU2A153□L( )	0.015	15.0	5.0	11.5	12.5	0.6	0±0.50	1.3		
ECQU2A183□L( )	0.018	15.0	5.0	11.5	12.5	0.6	0±0.50	1.3		
ECQU2A223□L( )	0.022	15.0	5.0	11.5	12.5	0.6	0±0.50	1.3		
ECQU2A273□L( )	0.027	15.0	5.0	11.5	12.5	0.6	0±0.50	1.3	500	
ECQU2A333□L( )	0.033	15.0	6.0	13.0	12.5	0.6	0±0.50	1.3		
ECQU2A393□L( )	0.039	15.0	6.0	13.0	12.5	0.6	0±0.50	1.3		
ECQU2A473□L( )	0.047	15.0	6.0	13.0	12.5	0.6	0±0.50	1.3		
ECQU2A563□L( )	0.056	17.5	4.5	11.5	15.0	0.6	0±0.50	1.3	1	
ECQU2A683□L( )	0.068	17.5	4.5	11.5	15.0	0.6	0±0.50	1.3		
ECQU2A823□L( )	0.082	17.5	5.5	12.0	15.0	0.6	0±0.50	1.3		
ECQU2A104□L( )	0.10	17.5	5.5	12.0	15.0	0.6	0±0.50	1.3		
ECQU2A124□L( )	0.12	17.5	6.5	14.5	15.0	0.6	0±0.50	1.3		
ECQU2A154□L( )	0.15	17.5	6.5	14.5	15.0	0.6	0±0.50	1.3		
ECQU2A184□L( )	0.18	17.5	8.0	16.0	15.0	0.6	0±0.50	1.3	-	
ECQU2A224□L( )	0.22	17.5	8.0	16.0	15.0	0.6	0±0.50	1.3		
ECQU2A274□L( )	0.27	17.5	9.5	17.5	15.0	0.8	0±0.50	1.3		
ECQU2A334□L( )	0.33	17.5	9.5	17.5	15.0	0.8	0±0.50	1.3		
ECQU2A394□L( )	0.39	25.5	8.5	17.5	22.5	0.8	0±0.75	1.5		
ECQU2A474□L( )	0.47	25.5	8.5	17.5	22.5	0.8	0±0.75	1.5		
ECQU2A564□L( )	0.56	25.5	10.5	19.5	22.5	0.8	0±0.75	1.5		
ECQU2A684□L()	0.68	25.5	10.5	19.5	22.5	0.8	0±0.75	1.5		
ECQU2A824□L( )	0.82	25.5	12.0	22.0	22.5	0.8	0±0.75	1.5	300	400
ECQU2A105□L()	1.0	25.5	12.0	22.0	22.5	0.8	0±0.75	1.5		
ECQU2A125□L()	1.2	30.5	16.5	26.0	27.5	0.8	0±0.75	1.5	200	200
ECQU2A155□L( )	1.5	30.5	16.5	26.0	27.5	0.8	0±0.75	1.5		
ECQU2A185□L()	1.8	30.5	19.0	29.5	27.5	0.8	0±0.75	1.5	150	150
ECQU2A225□L( )	2.2	30.5	19.0	29.5	27.5	0.8	0±0.75	1.5		

<sup>\*</sup>Capacitance tolerance code

<sup>():</sup> Suffix for lead form



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