

# Metallized Polypropylene Film Capacitor

Type: ECQUG [Class X1]

In accordance with UL/CSA and European safety regulation class X1



## **Features**

- Equipped with a safety mechanism
- Flame-retardant plastic case and non combustible resin
- RoHS directive compliant

## **Recommended applications**

• Interference suppressors

#### **Explanation of part number** 2 3 4 5 10 12 Ε C Q U 3 Α M G Product code Cap. Tol. Suffix Suffix Dielectric & Rated voltage Capacitance construction Lead Form M ±20 % Code Blank Straight Cut lead

## Applicable standard

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

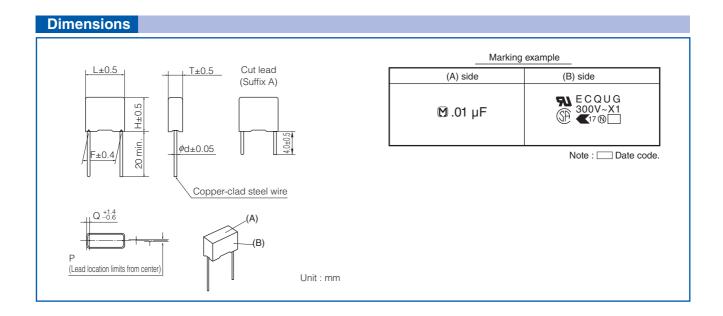
Арр	roval	Class	Certification organization		
UL	UL60384-14	Class X1	UL		
CSA	CAN/CSA E60384-14	Class X1	CSA		
Europe	EN60384-14	Class X1	- NEMKO		
International	IEC60384-14	Class X1			

- \* When applying this capacitor to European and American safety standards, please use type designation and rating such as ECQUG, 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.
- \* European standards marking are NEMKO only. But, there are no problem using this capacitor in a device which will get approvals from certification bodies in Europe, VDE, FIMKO, SEMKO, DEMKO, and SEV etc. except VDE and FIMKO.

Specifications						
Category temperature range	−40 °C to +100 °C					
Rated voltage	300 V.AC					
Rated capacitance	0.010 μF to 1.0 μF (E6)					
Capacitance tolerance	±20 % (M)					
Dissipation factor (tan $\delta$ )	tan δ ≤ 1.0 % (20 °C, 1 kHz )					
Withstand voltage	Between terminals: 575 V.AC, 1768 V.DC, 60 s Between terminals to enclosure: 2100 V.AC, 60 s					
Insulation resistance (IR)	$\begin{split} \text{C} & \leq 0.33 \ \mu\text{F}: \text{IR} \geq 15000 \ \text{M}\Omega \qquad \text{(20 °C, 100 V.DC, 60 s)} \\ \text{C} & > 0.33 \ \mu\text{F}: \text{IR} \geq 5000 \ \text{M}\Omega \cdot \mu\text{F} \ \text{(20 °C, 100 V.DC, 60 s)} \\ \text{IR} & \geq 2000 \ \text{M}\Omega \ \text{(20 °C, 500 V.DC, 60 s)} \end{split}$					

<sup>\*</sup> Use of this capacitor is limited to AC voltage (50 Hz or 60 Hz sine wave).





## Rating · Dimensions · Quantity

• Capacitance tolerance: ±20 %(M)

Part No.	Capacitance	Dimensions (mm)					Min.		
	(μF)	L	Т	Н	F	<i>φ</i> d	Р	Q	order Q'ty
ECQU3A103MG()	0.010	15.0	5.0	11.5	12.5	0.6	0±0.50	1.3	
ECQU3A153MG()	0.015	15.0	5.0	11.5	12.5	0.6	0±0.50	1.3	
ECQU3A223MG()	0.022	15.0	5.0	11.5	12.5	0.6	0±0.50	1.3	
ECQU3A333MG()	0.033	15.0	6.0	13.0	12.5	0.6	0±0.50	1.3	
ECQU3A473MG()	0.047	15.0	6.0	13.0	12.5	0.6	0±0.50	1.3	
ECQU3A683MG()	0.068	15.0	8.0	15.0	12.5	0.6	0±0.50	1.3	
ECQU3A104MG()	0.10	15.0	8.0	15.0	12.5	0.6	0±0.50	1.3	500
ECQU3A154MG()	0.15	18.0	8.0	16.5	15.0	0.8	0±0.50	1.3	
ECQU3A224MG( )	0.22	18.0	9.0	17.5	15.0	0.8	0±0.50	1.3	
ECQU3A334MG()	0.33	26.0	9.0	18.5	22.5	0.8	0±0.50	1.5	
ECQU3A474MG()	0.47	26.0	10.5	20.0	22.5	0.8	0±0.75	1.5	
ECQU3A684MG()	0.68	26.0	12.5	22.0	22.5	0.8	0±0.75	1.5	
ECQU3A105MG()	1.0	27.0	16.5	25.5	22.5	0.8	0±0.75	2.2	

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