

Metallized Polyester Film Capacitor

Type: **ECQUG[Class X1]**

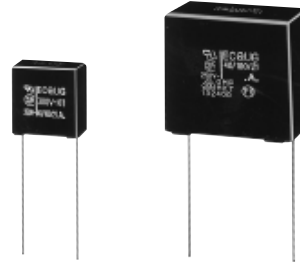
In accordance with UL/CSA and European safety regulation class X1

■ Features

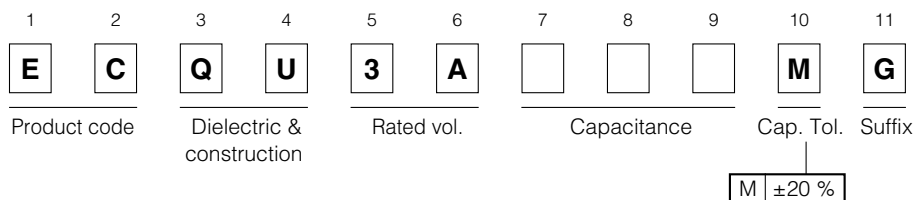
- Equipped with a safety mechanism
- Flame-retardant plastic case and non combustible resin
- RoHS directive compliant

■ Recommended Applications

- Interference suppressors



■ Explanation of Part Numbers



■ Applicable Standard

UL	UL 1414	Across-The-Line Capacitors Antenna-Coupling and Line-By-Pass Components
CSA	CSA C22.2 No.1	Across-the-line capacitors Antenna-Isolation and line-by-pass capacitors
SEMKO	IEC 60384-14 EN 132400	Class X1
DEMKO		
NEMKO		
FIMKO		
VDE		
SEV		

*When applying this capacitor to European and American safety standards, please use type designation and rating such as ECQUG, 0.1 μ F.

*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 VDE and FIMKO only. But, there are no problem using this capacitor in a device which will get approvals from certification bodies in Europe, SEMKO, DEMKO, NEMKO and SEV etc. except VDE and FIMKO.

■ Specifications

Category temp. range	-40 °C to +100 °C (85 °C max. on UL/CSA spec.)
Rated voltage	300 VAC (IEC60384-14), 250 VAC (UL, CSA)
Capacitance range	0.010 μ F to 1.0 μ F (E6)
Capacitance tolerance	±20 % (M)
Dissipation factor ($\tan \delta$)	$\tan \delta \leq 1.0$ % (20 °C, 1 kHz)
Withstand voltage	Between terminals : 575 VAC, 1768 VDC, 60 s Between terminals to enclosure : 2100 VAC, 60 s
Insulation resistance (IR)	C \leq 0.33 μ F : IR \geq 15000 M Ω (20 °C, 100 VDC, 60 s) C > 0.33 μ F : IR \geq 5000 M Ω · μ F (20 °C, 100 VDC, 60 s) IR \geq 2000 M Ω (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)

Marking Example

STYLE	(a) side	(b) side	(c) side
1 (0.010 μ F to 0.22 μ F)	M 0.01 μ F		
2 (0.33 μ F to 1.0 μ F)	M 1.0 μ F 300 V~		

■Rating & Dimensions

- Capacitance tolerance : $\pm 20\%$ (M)

Part No.	Cap. (μ F)	Dimensions (mm)						
		L	T	H	F	ϕd	P	Q
ECQU3A103MG	0.010	15.0	5.0	11.5	12.5	0.60	0 \pm 0.5	1.3
ECQU3A153MG	0.015	15.0	5.0	11.5	12.5	0.60	0 \pm 0.5	1.3
ECQU3A223MG	0.022	15.0	5.0	11.5	12.5	0.60	0 \pm 0.5	1.3
ECQU3A333MG	0.033	15.0	6.0	13.0	12.5	0.60	0 \pm 0.5	1.3
ECQU3A473MG	0.047	15.0	6.0	13.0	12.5	0.60	0 \pm 0.5	1.3
ECQU3A683MG	0.068	15.0	8.0	15.0	12.5	0.60	0 \pm 0.5	1.3
ECQU3A104MG	0.10	15.0	8.0	15.0	12.5	0.60	0 \pm 0.5	1.3
ECQU3A154MG	0.15	18.0	8.0	16.5	15.0	0.80	0 \pm 0.5	1.3
ECQU3A224MG	0.22	18.0	9.0	17.5	15.0	0.80	0 \pm 0.5	1.3
ECQU3A334MG	0.33	26.0	9.0	18.5	22.5	0.80	0 \pm 0.5	1.5
ECQU3A474MG	0.47	26.0	10.5	20.0	22.5	0.80	0 \pm 0.75	1.5
ECQU3A684MG	0.68	26.0	12.5	22.0	22.5	0.80	0 \pm 0.75	1.5
ECQU3A105MG	1.0	27.0	16.5	25.5	22.5	0.80	0 \pm 0.75	2.2

Cap.tol.code