



Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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### Interference Suppression Capacitor Metallized Polyester

Type: **ECQUG[Class X2]**

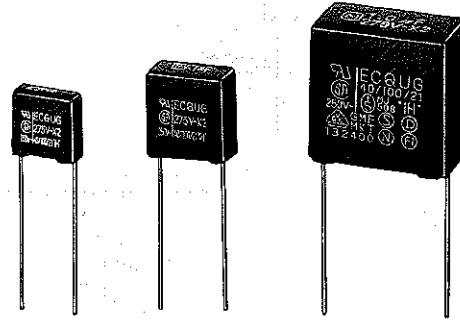
In accordance with UL/CSA and European safety regulation class X2

**Feature**

- Equipped with a safety mechanism
- Compact
- Excellent active and passive and flame resistant properties

**Recommended Applications**

- Interference suppressors



**Explanation of Part Numbers**

1	2	3	4	5	6	7	8	9	10	11
E	C	Q	U	2	A	1	0	4		G
Product code	Dielectric & construction		Rated vol.	Nominal capacitance		Cap. Tol.	Suffix			

**Applicable Standard & Applicabl Number**

UL	UL 1414	Across-The-Line Capacitors Antenna-Coupling and Line-By-Pass Components	※
CSA	CSA C22.2 No.1-94	Across-the-line capacitors Antenna-Isolation and line-by-pass capacitors	
SEMKO	IEC 384-14, 1993 EN 132400	Class X2	※
DEMKO			
NEMKO			
FIMKO			
VDE			
SEV			

\*When applying for agency, please apply with not part code but type designation and rating such as ECQUG, 0.1μF.

※Approval number (File No.) of safety regulations are subject to revise without notice. Ask factory for a copy of the latest file No..

**Specifications**

Reference standard	UL, CSA, SEMKO, DEMKO, NEMKO, FIMKO, VDE, SEV
Operating temp. range	-40 to +100°C (85°C max. on UL/CSA spec.)
Rated voltage	275VAC [IEC384-14], 250VAC [UL, CSA]
Capacitance range	0.01 to 1.0μF (E6)
Capacitance tolerance	±10% (K), ±20%(M)
Dissipation factor	1.0%max. (20°C 1kHz)
Withstand voltage	Between terminals : 575VAC, 1768VDC 60s Between terminals to enclosure : 2050VAC 60s
Insulation resistance	C ≤ 0.33μF : 15000M.Ω min. (20 °C 100VDC 60s) C > 0.33μF : 5000 M.Ω · μFmin. (20 °C 100VDC 60s) 2000M.Ω min. (20°C 500VDC 60s)

## ■ Dimensions in mm (not to scale)

The technical drawings show the physical dimensions of the capacitor: L±0.5, T±0.5, H±0.5, F±0.4, 20min., and φd±0.05. A detail shows a lead with a diameter of φ±0.14. A perspective view labels the (A), (B), and (C) sides. A note specifies 'Solder-plated copper-clad steel wire' and 'P (Lead location limits from center)'.

**Marking Example**

STYLE	(A) side	(B) side	(C) side
1 (0.01 to 0.22μF)	M 0.01 μF K	ECQUG 275V~X2 40/100/21 Date Code	GMF MKT 132400 MJ 508
2 (0.33 to 1.0μF)	M 1.0 μF K 275V~ X2	ECQUG 40/100/21 Date Code	GMF MKT 132400 MJ 508

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

## ■ Rating & Dimensions

Part No.	Cap. (μF)	Dimensions (mm)						
		L±0.5	T±0.5	H±0.5	F	φd	P	Q±0.4
ECQU2A103□G	0.01	12.5	5.0	11.5	10.0	0.60	0±0.5	1.3
ECQU2A153□G	0.015	12.5	5.0	11.5	10.0	0.60	0±0.5	1.3
ECQU2A223□G	0.022	12.5	6.0	12.5	10.0	0.60	0±0.5	1.3
ECQU2A333□G	0.033	15.0	6.0	13.0	12.5	0.60	0±0.5	1.3
ECQU2A473□G	0.047	15.0	6.0	13.0	12.5	0.60	0±0.5	1.3
ECQU2A683□G	0.068	15.0	8.0	15.0	12.5	0.60	0±0.5	1.3
ECQU2A104□G	0.1	15.0	8.0	15.0	12.5	0.60	0±0.5	1.3
ECQU2A154□G	0.15	17.5	8.0	16.5	15.0	0.80	0±0.5	1.3
ECQU2A224□G	0.22	17.5	9.0	17.5	15.0	0.80	0±0.5	1.3
ECQU2A334□G	0.33	25.5	9.0	18.5	22.5	0.80	0±0.5	1.5
ECQU2A474□G	0.47	25.5	10.5	20.0	22.5	0.80	0±0.75	1.5
ECQU2A684□G	0.68	25.5	12.5	22.0	22.5	0.80	0±0.75	1.5
ECQU2A105□G	1.0	25.5	15.5	24.5	22.5	0.80	0±0.75	1.5

Cap.tol.code (K, M)