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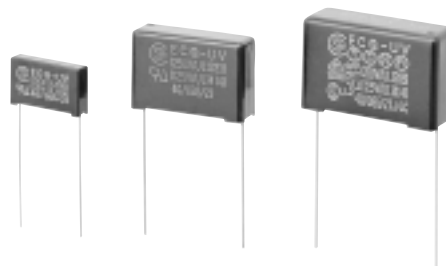
# Panasonic

## Plastic Film Capacitors

### Interference Suppression Capacitor Metallized Polyester

Type: **ECQUV [Class X2]**

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



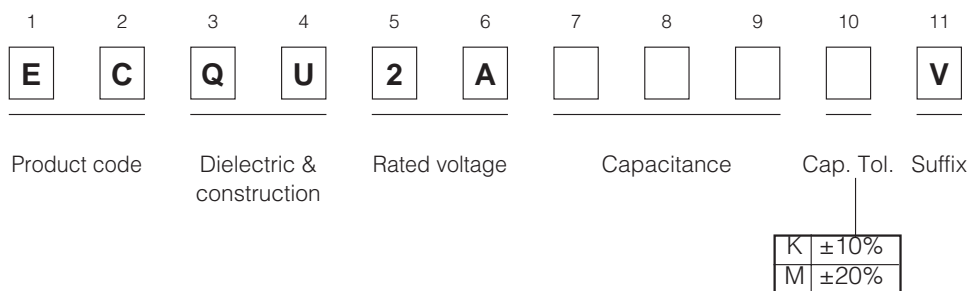
#### ■ Features

- Compact
- Overvoltage stress withstanding
- Flame-retardant plastic case and non combustible resin

#### ■ Recommended Applications

- Interference suppressors

#### ■ Explanation of Part Numbers



#### ■ Applicable Standard & Approval Number

UL	UL 1414	Across-The-Line Capacitors Antenna-Coupling and Line-By-Pass Components	File No. E62674
	UL 1283	Electromagnetic Interference Filters	File No. E79502
CSA	CSA C22.2 No.0, No.1	Across-the-line , Antenna-Isolation and line-by-pass capacitor	File No. LR35752
		Class X2 (0.001 to 1.0μF)	Class Y2 (0.001 to 0.0068μF)
SEMKO	IEC 384-14, 1993 EN 132400	Reg.No. 9642002/01-02	Reg.No. 9642002/01-02
DEMKO		Ref.No. 304897	Ref.No. 304897
NEMKO		Ref.No. P96102878	Ref.No. P96102878
FIMKO		Reg.No. 192438-01...02	Reg.No. 192438-01...02
VDE		File No. 4811. 6-4670-8101	File No. 4811. 6-4670-8102
SEV		Ref.No. 95, 7 71017, 02	Ref.No. 95, 7 71017, 03

※ When applying for the agency, please apply with not part cord but type designation and rating such as “ECQ-UV,0.1 μF”.

#### ■ Specifications

Category temp. range	-40 to +85°C
Rated voltage	250VAC (UL1414:125VAC)
Capacitance range	0.001 to 1.0μF(E12)
Capacitance tolerance	± 10%(K), ± 20%(M)
Dissipation factor	1.0%max.(20°C, 1kHz)
Withstand voltage	Between terminals : C ≤ 0.0068μF : 1500VAC, 2121VDC 60s C > 0.0068μF : 1000VAC, 1768VDC 60s
	Between terminals to enclosure : 2000 VAC 60s
Insulation resistance	C ≤ 0.33μF : 15000MΩ min. (20°C 100 VDC 60s)
	C > 0.33μF : 5000MΩ · μF min. (20°C 500VDC 60s)

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## Plastic Film Capacitors

■ Dimensions in mm (not to scale)

Case: Either type 1 or type 2

Solder-plated copper-clad steel wire

(Tolerance of the lead exit point)

STYLE	A side	B side	C side
1 0.001 to 0.0088 µF	Ⓜ .001 µF K	ECQ-UV (250V/UL 1283) (125V/UL 1414) 40/085/21	250V-X2 GPF 132400 MKT LL2
2 0.0082 to 0.047 µF	Ⓜ .01 µF K	ECQ-UV (250V/UL 1283) (125V/UL 1414) 40/085/21	250V-X2 GPF 132400 MKT LL2
3 0.056 to 0.22 µF	Ⓜ .056 µF K 250V- X2	ECQ-UV (250V/UL 1283) (125V/UL 1414) 40/085/21	GPF 132400 MKT LL2
4 0.27 to 1.0 µF	Ⓜ .27 µF K 250V- X2	ECQ-UV (250V/UL 1283) (125V/UL 1414) 40/085/21	GPF 132400 MKT LL2

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

### ■ Rating & Dimensions

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

Part No.	Cap. (µF)	Dimensions (mm)						
		L±0.5	T±0.5	H±0.5	F	ød	P	Q <sup>+1.4</sup> <sub>-0.6</sub>
ECQU2A102□V	0.001	17.5	4.0	10.5	15.0	0.60	0 ± 0.5	1.3
ECQU2A122□V	0.0012	17.5	4.0	10.5	15.0	0.60	0 ± 0.5	1.3
ECQU2A152□V	0.0015	17.5	4.0	10.5	15.0	0.60	0 ± 0.5	1.3
ECQU2A182□V	0.0018	17.5	4.0	10.5	15.0	0.60	0 ± 0.5	1.3
ECQU2A222□V	0.0022	17.5	4.0	10.5	15.0	0.60	0 ± 0.5	1.3
ECQU2A272□V	0.0027	17.5	4.0	10.5	15.0	0.60	0 ± 0.5	1.3
ECQU2A332□V	0.0033	17.5	4.0	10.5	15.0	0.60	0 ± 0.5	1.3
ECQU2A392□V	0.0039	17.5	4.0	10.5	15.0	0.60	0 ± 0.5	1.3
ECQU2A472□V	0.0047	17.5	4.0	10.5	15.0	0.60	0 ± 0.5	1.3
ECQU2A562□V	0.0056	17.5	4.0	10.5	15.0	0.60	0 ± 0.5	1.3
ECQU2A682□V	0.0068	17.5	4.0	10.5	15.0	0.60	0 ± 0.5	1.3
ECQU2A822□V	0.0082	17.5	4.0	10.5	15.0	0.60	0 ± 0.5	1.3
ECQU2A103□V	0.01	17.5	4.0	10.5	15.0	0.60	0 ± 0.5	1.3
ECQU2A123□V	0.012	17.5	4.0	10.5	15.0	0.60	0 ± 0.5	1.3
ECQU2A153□V	0.015	17.5	4.0	10.5	15.0	0.60	0 ± 0.5	1.3
ECQU2A183□V	0.018	17.5	4.5	10.5	15.0	0.60	0 ± 0.5	1.3
ECQU2A223□V	0.022	17.5	4.5	10.5	15.0	0.60	0 ± 0.5	1.3
ECQU2A273□V	0.027	17.5	4.5	13.0	15.0	0.60	0 ± 0.5	1.3
ECQU2A333□V	0.033	17.5	4.5	13.0	15.0	0.60	0 ± 0.5	1.3
ECQU2A393□V	0.039	17.5	5.5	12.5	15.0	0.60	0 ± 0.5	1.3
ECQU2A473□V	0.047	17.5	5.5	12.5	15.0	0.60	0 ± 0.5	1.3
ECQU2A563□V	0.056	17.5	7.0	14.0	15.0	0.60	0 ± 0.5	1.3
ECQU2A683□V	0.068	17.5	7.0	14.0	15.0	0.60	0 ± 0.5	1.3
ECQU2A823□V	0.082	17.5	8.0	15.0	15.0	0.60	0 ± 0.5	1.3
ECQU2A104□V	0.1	17.5	8.0	15.0	15.0	0.80	0 ± 0.5	1.3
ECQU2A124□V	0.12	25.5	6.5	16.5	22.5	0.80	0 ± 0.5	1.5
ECQU2A154□V	0.15	25.5	6.5	16.5	22.5	0.80	0 ± 0.5	1.5
ECQU2A184□V	0.18	25.5	8.5	17.0	22.5	0.80	0 ± 0.5	1.5
ECQU2A224□V	0.22	25.5	8.5	17.0	22.5	0.80	0 ± 0.5	1.5
ECQU2A274□V	0.27	30.5	10.0	18.0	27.5	0.80	0 ± 0.75	1.5
ECQU2A334□V	0.33	30.5	10.0	18.0	27.5	0.80	0 ± 0.75	1.5
ECQU2A394□V	0.39	30.5	12.0	20.0	27.5	0.80	0 ± 0.75	1.5
ECQU2A474□V	0.47	30.5	12.0	20.0	27.5	0.80	0 ± 0.75	1.5
ECQU2A564□V	0.56	30.5	13.5	23.5	27.5	0.80	0 ± 0.75	1.5
ECQU2A684□V	0.68	30.5	13.5	23.5	27.5	0.80	0 ± 0.75	1.5
ECQU2A824□V	0.82	30.5	16.5	26.5	27.5	0.80	0 ± 0.75	1.5
ECQU2A105□V	1.0	30.5	16.5	26.5	27.5	0.80	0 ± 0.75	1.5

□ Cap. tol. code