

Interference Suppression Capacitor Metallized Polyester

Type: **ECQEW [Class X2]**

In accordance with UL and European safety regulations class X2

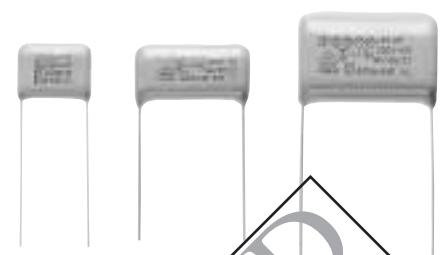
■ Features

- ◆ Compact size
- ◆ Withstands overvoltage stress
- ◆ Flame-retardant epoxy resin coating

■ Recommended Applications

- ◆ Interference suppressors

■ Explanation of Part Numbers



1	2	3	4	5	6	7	8	9	10	11	12										
E	C	Q	E	2	A					W											
Product Code		Dielectric & construction		Rated voltage		Capacitance		Cap. Tol.		Suffix											
								<table border="1" style="font-size: small;"> <tr> <td>K</td><td>±10%</td> </tr> <tr> <td>M</td><td>±20%</td> </tr> </table>		K	±10%	M	±20%	<table border="1" style="font-size: small;"> <tr> <td>Blank</td><td>Type1</td><td>Straight</td> </tr> <tr> <td>B</td><td>Type2</td><td>Crimped lead</td> </tr> </table>		Blank	Type1	Straight	B	Type2	Crimped lead
K	±10%																				
M	±20%																				
Blank	Type1	Straight																			
B	Type2	Crimped lead																			

1	2	3	4	5	6	7	8	9	10	11	12
E	C	Q	E	2	A				R		
Product Code		Dielectric & construction		Rated voltage		Capacitance		7.5mm Crimped		Cap.Tol. Suffix	

■ Applicable Standards & Approval Number

UL	UL 1283 Electromagnetic Interference Filter	File No. E79502	Applicable C-value 0.0047 to 0.47 μF
SEMKO	Class X2	Reg.No. 9518166	Applicable C-value 0.0047 to 1.0 μF
DEMKO		Reg.No. 304262	
NEMKO		IEC 384-14, 1993	
FIMKO		EN 132400	
VDE		File No. 4811. 6-4670-8115	
SEV		Ref.No. 95,7 71017,01	

*When referring to agency, please refer with the type designation and rating such as "ECQEW,0.1μF".

■ Specifications

Category temp. range	-40 to +85°C
Rated voltage	250VAC
Capacitance range	0.0047 to 1.0 μF (E6)
Capacitance tolerance	± 10%(K), ± 20%(M)
Dissipation factor	1.0%max.(20°C,1kHz)
Withstand voltage	Between terminals : C ≤ 0.47 μF : 1768 VDC 60s C > 0.68 μF : 1075 VDC 60s
	Between terminals to enclosure : 2000 VAC 60s
Insulation resistance	C ≤ 0.33 μF : 15000 MΩ min. C > 0.33 μF : 5000 MΩ · μF min. (20°C 100 VDC 60s)

■ Dimensions in mm (not to scale)

Marking example

STYLE	A side	B side
1 (0.0047 to 0.068 μF)	.0047 μF K 250V- X2 40/85/21 ECQ-EW	GPF LL2 MKT 132400
2 (0.1 to 0.47 μF)	GPF .15 μF K MKT 250V- X2 40/85/21 132400 ECQ-EW	
3 (0.68 to 1.0 μF)	GPF .68 μF K MKT 250V- X2 40/85/21 132400 ECQ-EW	Date code

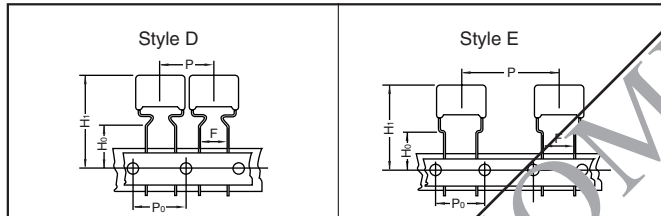
Note: Only ±10% as cap. tol. to be marked as OK

■ Packaging Specifications for Bulk Package

Packing quantity: 100 pcs./bag

■ Taping Specifications for Automatic Insertion

● Taping style



● Packaging Specifications

Type	Rated volt.	Cap. range (μF)	Taping style						Packing
			A	AS	B	C	D	E	
ECQEW	250VAC	0.0047 to 0.022					○		Ammo
		0.033 to 0.1						○	

● Lead Spacing

Style	Lead Spacing
D	7.5mm
E	7.5mm

■ Rating & Dimensions

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

Part No.	Cap. (μF)	L _{max}	T _{max}	Dimensions (mm)				G _{max}	ød
				H _{max}		F	S		
				Type-1	Type-2	Type-1	Type-2		
ECQE2A472 W ()	0.0047	13.5	7.0	12.0	17.0	10.50	7.5	1.5	0.60
ECQE2A682 W ()	0.0068	13.5	7.0	12.0	17.0	10.50	7.5	1.5	0.60
ECQE2A103 W ()	0.01	13.5	7.0	12.0	17.0	10.50	7.5	1.5	0.60
ECQE2A153 W ()	0.015	13.5	7.0	12.5	17.5	10.50	7.5	1.5	0.60
ECQE2A223 W ()	0.022	13.5	7.0	12.5	17.5	10.50	7.5	1.5	0.60
ECQE2A333 W ()	0.033	17.0	6.5	13.5	18.5	13.50	7.5	1.5	0.60
ECQE2A473 W ()	0.047	17.0	7.5	14.5	19.5	13.50	7.5	1.5	0.60
ECQE2A683 W ()	0.068	17.0	8.5	16.0	21.0	13.50	7.5	1.5	0.60
ECQE2A104 W ()	0.1	24.0	8.0	13.5	18.5	20.50	15.0	1.5	0.80
ECQE2A154 W ()	0.15	24.0	8.5	16.0	21.0	20.50	15.0	1.5	0.80
ECQE2A224 W ()	0.22	24.0	10.5	17.5	22.5	20.50	15.0	1.5	0.80
ECQE2A334 W ()	0.33	29.0	11.0	18.0	23.0	25.50	20.0	1.5	0.80
ECQE2A474 W ()	0.47	29.0	13.0	20.5	25.5	25.50	20.0	1.5	0.80
ECQE2A684 W ()	0.68	42.5	12.0	20.0	25.0	38.50	32.5	1.5	0.80
ECQE2A105 W ()	1.0	42.5	14.0	23.0	28.0	38.50	32.5	1.5	0.80

← Suffix for lead crimped or taped type
 ← Cap. tol. code