

Panasonic® Interference Suppressor Capacitors X-Y Series-Metallized Film

Electrical Specifications: • Operating Temperature Range: -40°C - 85°C (-40°C - 100°C for ECO-UG/UL) • Capacitance Tolerance: ±20% (M) • Dissipation Factor: Less than 1.0% (at 20°C 1 kHz)

SEMKO (SS 443 04 14); class X2 Reg No. 8932009. **DEMKO (AFSNIT21);** class X2 Ref No. 94911EC. **VDE (VDE0565-1);** class X2 File No. 4811. 6-4670-1035.

SEMKO (SS 443 04 14); class X2/Y Reg No. 8804123. **DEMKO (AFSNIT21);** class X2/Y Ref No. 89275EC. **NEMKO (NEMKO 132);** class X2 Ref No. 37892, class Y Ref No. 37894. **EI (IEC 384/14);** class X2/Y Reg No. 110918-01-02. **VDE (VDE 0565-1);** class X2/Y File No. 4811.6-4670-1070. **SEV (SEV 1055);** class X ref No. 88.1 00318.01.

ECQ-UN Series: Rated Voltage: 250VAC. Standards: UL (UL 1414); Across-The-Line Capacitor, Antenna Coupling and Line-By-Pass Capacitors. File No. E62674. **CSA (CSA C22.2);** No. 0-M1982, No. 1-M1981. **Across-The-Line, antenna-isolation and line-by-pass capacitor.** File No. LR35752. **VDE (VDE0565-1);** class X2 File No. 4811.6-4670-1041. **SEV (SEV1055);** class X, Ref No. 89. 5 50251.05. **DEMKO (AFSNIT21);** class X2, Ref No. 70725EC. **SEMKO (SS4430414);** class X2 Reg No. 8602146. **NEMKO (NEMKO);** class X2 Ref No. E 25082 02. **EI (E384-14);** class X2, Reg No. 062521 01-14(0.001-0.012µF), Reg No. 062522 01-15(0.015-0.22µF).

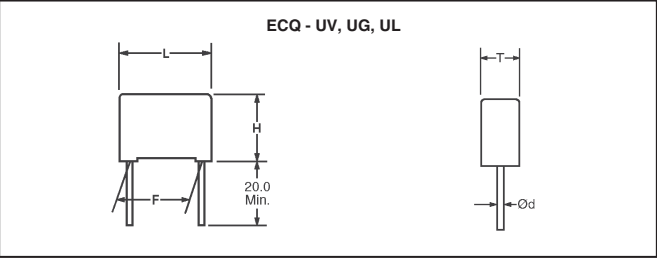
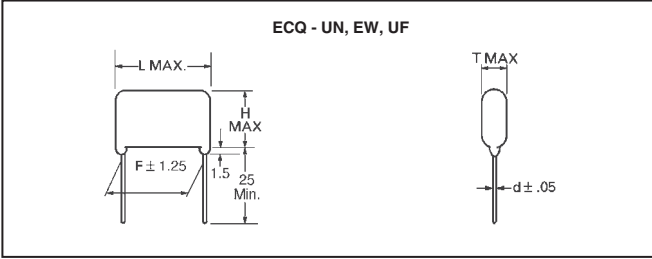
ECQ-UF Series: Rated Voltage: 250VAC Standards: SEMKO (SEMKO 101) Reg. No. 61254EC. VDE (VDE 0565-1) class Y/X2, File No. 4811-6-1-4670-1032. BSI (BS415); certified. **UL (UL1414)** Across-The-Line Capacitor & Antenna-Coupling and Line-by-pass. File No. E62674. **CSA (CSA C22.2) No. 0-M1982, No. 1-M1981, Across-The-Line, Antenna-Isolation and Line-by-Pass Capacitor, File No. LR35752.**

ECQ-UG — Class X1 Series: Rated Voltage: 250/300VAC Standards: UL (UL1414); Across-The-Line Capacitors, Antenna-Coupling and Line-by-Pass Capacitors. **CSA (Standard C22.2 No. 1-94);** Across-The-Line Capacitors, Antenna-Isolation and Line-by-Pass Capacitors. **FIMCO and VDE; IEC384-14, 1993, A1 - 1995, EN132400, Class X1.**

ECQ-EW Series: Rated Voltage: 250VAC. Standards: UL (UL 1283); Electromagnetic Interference Filters Class X File No. E79502.

ECQ-UV Series: Rated Voltage: 250VAC Standards: UL (UL1414); Across-The-Line Capacitors, Antenna-Coupling and Line-by-Pass Capacitors. File No. E62674. **(UL1283);** Electromagnetic Interference Filters, File No. E79502. **CSA (CSA C22.2);** Across-The-Line, Antenna-Isolation and Line-by-Pass Capacitor, No. 0-M1982, No. 1-M1981.

ECQ-UL Series: Rated Voltage: 250/275VAC Standards: UL (UL1414); Across-The-Line Capacitors, Antenna-Coupling and Line-by-Pass Capacitors. **CSA (Standard C22.2 No. 1-94);** Across-The-Line Capacitors, Antenna-Isolation and Line-by-Pass Capacitors. **VDE; IEC384-14, 1993, EN132400, Class X2.**



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Voltage (VAC)	Cap. (µF)	Dimensions (mm)					Digi-Key Part No.	Pricing		Panasonic Part No.		
		L	T	H	F	Ød		1	100			
ECQ-UN — RoHS Compliant												
250	0.0047	17.0	6.5	13.5	13.5	0.6	P4600-ND	1.16	36.58	63.01	ECQ-U2A472MN	
	0.01	17.0	7.0	14.0	13.5	0.6	P4601-ND	1.16	36.58	63.01	ECQ-U2A103MN	
	0.047	25.5	7.0	14.0	21.5	0.6	P4602-ND	1.30	44.57	77.15	ECQ-U2A473MN	
	0.1	30.5	7.5	17.01	26.5	0.8	P4603-ND	1.44	49.15	85.08	ECQ-U2A104MN	
	250	0.1	24.0	8.0	13.5	20.5	0.8	P4609-ND	.99	33.96	58.77	ECQ-E2A104MW
ECQ-EW — RoHS Compliant												
250	0.0047	20.0	7.0	14.5	16.5	0.6	P4608-ND	.95	32.44	56.15	ECQ-U2A472MF	
	0.01	23.0	7.5	15.0	19.5	0.6	P4609-ND	.99	33.96	58.77	ECQ-U2A103MF	
ECQ-UF — RoHS Compliant												
250	0.0047	20.0	7.0	14.5	16.5	0.6	P4608-ND	.95	32.44	56.15	ECQ-U2A472MF	
	0.01	23.0	7.5	15.0	19.5	0.6	P4609-ND	.99	33.96	58.77	ECQ-U2A103MF	
ECQ-UV												
250	0.001	17.5	4.0	10.5	15.0	0.6	P4617-ND	1.10	34.76	59.87	ECQ-U2A102MV	
	0.0012	17.5	4.0	10.5	15.0	0.6	P4618-ND	1.10	34.76	59.87	ECQ-U2A122MV	
	0.0015	17.5	4.0	10.5	15.0	0.6	P4619-ND	1.10	34.76	59.87	ECQ-U2A152MV	
	0.0018	17.5	4.0	10.5	15.0	0.6	P4620-ND	1.10	34.76	59.87	ECQ-U2A182MV	
	0.0022	17.5	4.0	10.5	15.0	0.6	P4621-ND	1.10	34.76	59.87	ECQ-U2A222MV	
	0.0027	17.5	4.0	10.5	15.0	0.6	P4622-ND	1.10	34.76	59.87	ECQ-U2A272MV	
	0.0033	17.5	4.0	10.5	15.0	0.6	P4623-ND	1.10	34.76	59.87	ECQ-U2A332MV	
	0.0039	17.5	4.0	10.5	15.0	0.6	P4624-ND	1.10	34.76	59.87	ECQ-U2A392MV	
	0.0047	17.5	4.0	10.5	15.0	0.6	P4625-ND	1.10	34.76	59.87	ECQ-U2A472MV	
	0.0056	17.5	4.0	10.5	15.0	0.6	P4626-ND	1.10	34.76	59.87	ECQ-U2A562MV	
	0.0068	17.5	4.0	10.5	15.0	0.6	P4627-ND	1.10	34.76	59.87	ECQ-U2A682MV	
	0.0082	17.5	4.0	10.5	15.0	0.6	P4628-ND	1.10	34.76	59.87	ECQ-U2A822MV	
	0.01	17.5	4.0	10.5	15.0	0.6	P4629-ND	1.10	34.76	59.87	ECQ-U2A103MV	
	0.012	17.5	4.0	10.5	15.0	0.6	P4630-ND	1.10	34.76	59.87	ECQ-U2A123MV	
	0.015	17.5	4.0	10.5	15.0	0.6	P4631-ND	1.05	33.29	57.34	ECQ-U2A153MV	
	0.018	17.5	4.5	10.5	15.0	0.6	P4632-ND	1.07	33.75	58.14	ECQ-U2A183MV	
	0.022	17.5	4.5	10.5	15.0	0.6	P4633-ND	1.09	34.20	58.91	ECQ-U2A223MV	
	0.027	17.5	4.5	13.0	15.0	0.6	P4634-ND	1.09	34.20	58.91	ECQ-U2A273MV	
	0.033	17.5	4.5	13.0	15.0	0.6	P4635-ND	1.09	34.20	58.91	ECQ-U2A333MV	
	0.039	17.5	5.5	12.5	15.0	0.6	P4636-ND	1.09	34.20	58.91	ECQ-U2A393MV	
	0.047	17.5	5.5	12.5	15.0	0.6	P4637-ND	1.14	39.29	67.99	ECQ-U2A473MV	
	0.056	17.5	7.0	14.0	15.0	0.6	P4638-ND	1.12	35.53	61.18	ECQ-U2A563MV	
	0.068	17.5	7.0	14.0	15.0	0.6	P4639-ND	1.12	35.53	61.18	ECQ-U2A683MV	
	0.082	17.5	8.0	15.0	15.0	0.6	P4640-ND	1.12	35.53	61.18	ECQ-U2A823MV	
	0.1	17.5	8.0	15.0	15.0	0.8	P4610-ND	1.12	35.53	61.18	ECQ-U2A104MV	
	0.12	25.5	6.5	16.5	22.5	0.6	P4641-ND	1.45	49.49	85.65	ECQ-U2A124MV	
	0.15	25.5	6.5	16.5	22.5	0.8	P4611-ND	1.51	51.71	89.50	ECQ-U2A154MV	
	0.18	25.5	8.5	17.0	22.5	0.6	P4642-ND	1.51	51.71	89.50	ECQ-U2A184MV	
	0.22	25.5	8.5	17.0	22.5	0.8	P4612-ND	1.63	55.85	96.66	ECQ-U2A224MV	
	0.27	30.5	10.0	18.0	27.5	0.6	P4643-ND	2.04	72.20	126.36	ECQ-U2A274MV	
	0.33	30.5	10.0	18.0	27.5	0.8	P4613-ND	2.05	72.50	126.87	ECQ-U2A334MV	
	0.39	30.5	12.0	20.0	27.5	0.6	P4644-ND	2.05	72.50	126.87	ECQ-U2A394MV	
	0.47	30.5	12.0	20.0	27.5	0.8	P4614-ND	2.29	80.66	141.16	ECQ-U2A474MV	
	0.56	30.5	13.5	23.5	27.5	0.6	P4645-ND	2.37	83.43	146.00	ECQ-U2A564MV	
	0.68	30.5	13.5	23.5	27.5	0.8	P4615-ND	2.70	95.29	166.78	ECQ-U2A684MV	
	0.82	30.5	16.5	26.5	27.5	0.6	P4646-ND	3.04	107.33	187.84	ECQ-U2A824MV	
	1.0	30.5	16.5	26.5	27.5	0.8	P4616-ND	3.22	113.84	199.22	ECQ-U2A105MV	
	ECQ-UG — Class X1 — RoHS Compliant											
	250/300	0.01	15.0	5.0	11.5	12.5	0.60	P11110-ND	.66	17.58	30.63	ECQ-U3A103MG
		0.015	15.0	5.0	11.5	12.5	0.60	P11111-ND	.66	17.58	30.63	ECQ-U3A153MG
		0.022	15.0	5.0	11.5	12.5	0.60	P11112-ND	.66	17.58	30.63	ECQ-U3A223MG
		0.033	15.0	6.0	13.0	12.5	0.60	P11113-ND	.66	17.58	30.63	ECQ-U3A333MG

Voltage (VAC)	Cap. (µF)	Dimensions (mm)					Digi-Key Part No.	Pricing		Panasonic Part No.	
		L	T	H	F	Ød		1	100		
250/300	0.047	15.0	6.0	13.0	12.5	0.60	P11114-ND	.66	17.58	30.63	ECQ-U3A473MG
	0.068	15.0	8.0	15.0	12.5	0.60	P11115-ND	.66	17.58	30.63	ECQ-U3A683MG
	0.1	15.0	8.0	15.0	12.5	0.60	P11116-ND	.66	17.58	30.63	ECQ-U3A104MG
	0.15	17.5	8.0	16.5	15.0	0.80	P11117-ND	.74	21.68	37.17	ECQ-U3A154MG
	0.22	17.5	9.0	17.5	15.0	0.80	P11118-ND	.89	26.12	44.79	ECQ-U3A224MG
	0.33	25.5	9.0	18.5	22.5	0.80	P11119-ND	1.19	37.70	64.94	ECQ-U3A334MG
	0.47	25.5	10.5	20.0	22.5	0.80	P11120-ND	1.41	48.37	83.70	ECQ-U3A474MG
	0.68	25.5	12.5	22.0	22.5	0.80	P11121-ND	1.89	64.54	111.70	ECQ-U3A684MG
	1.0	27.0	16.5	25.5	22.5	0.80	P11122-ND	2.11	74.35	130.13	ECQ-U3A105MG
	ECQ-UL										
250/275	0.001	15.0	5.0	11.5	12.5	0.60	P10988-ND	.44	10.66	18.28	ECQ-U2A102ML
	0.0012	15.0	5.0	11.5	12.5	0.60	P10989-ND	.39	9.61	16.46	ECQ-U2A122ML
	0.0015	15.0	5.0	11.5	12.5	0.60	P10990-ND	.44	10.66	18.28	ECQ-U2A152ML
	0.0018	15.0	5.0	11.5	12.5	0.60	P10991-ND	.44	10.66	18.28	ECQ-U2A182ML
	0.0022	15.0	5.0	11.5	12.5	0.60	P10992-ND	.37	9.13	15.65	ECQ-U2A222ML
	0.0027	15.0	5.0	11.5	12.5	0.60	P10993-ND	.44	10.66	18.28	ECQ-U2A272ML
	0.0033	15.0	5.0	11.5	12.5	0.60	P10994-ND	.37	9.13	15.65	ECQ-U2A332ML
	0.0039	15.0	5.0	11.5	12.5	0.60	P10995-ND	.44	10.66	18.28	ECQ-U2A392ML
	0.0047	15.0	5.0	11.5	12.5	0.60	P10996-ND	.37	9.13	15.65	ECQ-U2A472ML
	0.0056	15.0	5.0	11.5	12.5	0.60	P10997-ND	.44	10.66	18.28	ECQ-U2A562ML
	0.0068	15.0	5.0	11.5	12.5	0.60	P10998-ND	.44	10.66	18.28	ECQ-U2A682ML
	0.0082	15.0	5.0	11.5	12.5	0.60	P10999-ND	.44	10.66	18.28	ECQ-U2A822ML
	0.01	15.0	5.0	11.5	12.5	0.60	P10724-ND	.37	9.13	15.65	ECQ-U2A103ML
	0.012	15.0	5.0	11.5	12.5	0.60	P11000-ND	.44	10.66	18.28	ECQ-U2A123ML
	0.015	15.0	5.0	11.5	12.5	0.60	P10725-ND	.37	9.13	15.65	ECQ-U2A153ML
	0.018	15.0	5.0	13.0	12.5	0.60	P11001-ND	.44	10.66	18.28	ECQ-U2A183ML
	0.022	15.0	5.0	11.5	12.5	0.60	P10726-ND	.44	10.66	18.28	ECQ-U2A223ML
	0.027	15.0	5.0	11.5	12.5	0.60	P11002-ND	.37	9.13	15.65	ECQ-U2A273ML