

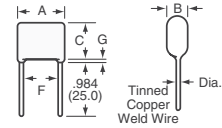
Panasonic® E-Series Metallized Polyester Capacitors

General Specifications:

Electrical: Rated Voltage 100VDC, 250VDC, 400 V.D.C., 630 V.D.C. Capacitance Tolerance ±10% (K) Insulation Resistance: Less than 0.33µF, 9,000MΩ; More than 0.33µF, 3,000MΩ. Dissipation Factor = 1.0% at 1kHz Withstanding Voltage Rated Voltage X 1.5 (1 minute) Operating Temperature -40°C - 85°C

Panasonic ECQ-E Cross References:

Sprague: DF/A50P/451P/453P; Westlake: 160/168/185/167/184/186; Mepco: 713A/1/719A/1C/280; TRW: X601PE/X601CPE; Packtron: MF/RB; Secor: MMS/MMKR/ MMDR; RIFA: PHE353/PHES354; Roederstein: MKT1818/MKT1822; WIMA: MKS; CSF Thompson: MD/MC; Siemens: B325-XX; Rubycon: MC/MN; Nichicon: DDMX.



Working Voltage	Cap. µF	Dimensions (mm)						Digi-Key Part No.	Pricing					Panasonic Part No.	
		A	B	C	F	G	Dia.		1	10	100	1,000	5,000		10,000
100	.1	12.0	4.0	7.4	10.0	1.0	.6	E1104-ND	.34	2.94	23.03	146.71	138.23/M	127.28/M	ECQ-E1104KZ
	.12	12.0	4.5	7.4	10.0	1.0	.6	E1124-ND	.35	3.03	23.74	151.20	142.46/M	131.17/M	ECQ-E1124KZ
	.15	12.0	4.0	9.5	10.0	1.0	.6	E1154-ND	.36	3.12	24.44	155.69	146.69/M	135.07/M	ECQ-E1154KZ
	.18	12.0	4.5	10.0	10.0	1.0	.6	E1184-ND	.39	3.30	25.85	164.67	155.15/M	142.86/M	ECQ-E1184KZ
	.22	12.0	5.0	10.5	10.0	1.0	.6	E1224-ND	.41	3.54	27.73	176.65	166.43/M	153.25/M	ECQ-E1224KZ
	.27	17.0	4.5	8.0	15.0	1.0	.6	E1274-ND	.46	3.90	30.55	194.61	183.36/M	168.84/M	ECQ-E1274KZ
	.33	17.0	4.5	10.0	15.0	1.0	.6	E1334-ND	.51	4.35	34.08	217.07	204.52/M	188.32/M	ECQ-E1334KZ
	.39	17.0	5.0	10.0	15.0	1.0	.6	E1394-ND	.53	4.50	35.25	224.55	211.57/M	194.81/M	ECQ-E1394KZ
	.47	17.0	5.5	11.0	15.0	1.0	.6	E1474-ND	.55	4.74	37.13	236.53	222.85/M	205.20/M	ECQ-E1474KZ
	.56	17.0	6.5	11.5	15.0	1.0	.6	E1564-ND	.64	5.46	42.77	272.45	256.70/M	236.37/M	ECQ-E1564KZ
	.68	17.0	7.0	12.0	15.0	1.0	.8	E1684-ND	.73	6.21	48.85	309.88	291.96/M	268.84/M	ECQ-E1684KZ
	.82	17.0	7.5	13.0	15.0	1.0	.8	E1824-ND	.79	6.81	53.35	339.82	320.17/M	294.81/M	ECQ-E1824KZ
	1.0	17.0	8.0	14.0	15.0	1.0	.8	E1105-ND	.86	7.41	58.05	369.76	348.38/M	320.78/M	ECQ-E1105KZ
	1.2	17.0	8.5	16.0	15.0	1.0	.8	E1125-ND	1.00	8.58	67.21	428.14	403.99/M	371.43/M	ECQ-E1125KZ
	1.5	25.5	7.5	14.5	22.5	1.0	.8	E1155-ND	1.17	10.02	78.49	500.00	471.09/M	433.77/M	ECQ-E1155KZ
	1.8	25.5	8.5	16.0	22.5	1.0	.8	E1185-ND	1.30	11.13	87.19	555.39	523.27/M	481.82/M	ECQ-E1185KZ
	2.2	25.5	9.5	16.5	22.5	1.0	.8	E1225-ND	1.47	12.60	98.70	628.74	592.38/M	545.46/M	ECQ-E1225KZ
	2.7	25.5	10.0	18.5	22.5	1.0	.8	E1275-ND	1.67	14.31	112.46	714.37	672.78/M	619.48/M	ECQ-E1275KZ
	3.3	25.5	10.0	19.0	22.5	1.0	.8	E1335-ND	2.13	18.24	142.88	910.18	857.55/M	789.61/M	ECQ-E1335KZ
	3.9	30.5	11.0	18.0	27.5	1.5	.8	E1395-ND	2.41	20.67	1031.43	971.79/M	917.79/M	ECQ-E1395KZ	
250	.47	30.5	11.0	20.5	27.5	1.5	.8	E1475-ND	2.72	23.31	182.60	1163.17	1095.91/M	1009.09/M	ECQ-E1475KZ
	5.6	30.5	12.5	21.0	27.5	1.5	.8	E1565-ND	3.23	27.72	217.14	1383.23	1303.24/M	1200.00/M	ECQ-E1565KZ
	6.8	30.5	13.0	24.0	27.5	1.5	.8	E1685-ND	3.67	31.47	246.52	1570.35	1479.55/M	1362.34/M	ECQ-E1685KZ
	8.2	30.5	15.0	25.0	27.5	1.5	.8	E1825-ND	4.24	36.30	284.35	1811.37	1706.62/M	1571.43/M	ECQ-E1825KZ
	10.0	32.5	16.0	27.0	27.5	1.5	.8	E1106-ND	4.93	43.89	322.85	2127.78	1955.99/M	1828.24/M	ECQ-E1106KZ
	.01	12.5	5.0	8.5	10.0	1.0	.6	E2103-ND	.31	2.67	20.92	133.23	125.53/M	115.59/M	ECQ-E2103KZ
	.012	12.5	5.0	8.5	10.0	1.0	.6	E2123-ND	.31	2.67	20.92	133.23	125.53/M	115.59/M	ECQ-E2123KZ
	.015	12.5	5.0	8.5	10.0	1.0	.6	E2153-ND	.31	2.67	20.92	133.23	125.53/M	115.59/M	ECQ-E2153KZ
	.018	12.5	5.0	8.5	10.0	1.0	.6	E2183-ND	.31	2.67	20.92	133.23	125.53/M	115.59/M	ECQ-E2183KZ
	.022	12.5	5.0	8.5	10.0	1.0	.6	E2223-ND	.31	2.67	20.92	133.23	125.53/M	115.59/M	ECQ-E2223KZ
	.027	12.5	5.0	8.5	10.0	1.0	.6	E2273-ND	.31	2.67	20.92	133.23	125.53/M	115.59/M	ECQ-E2273KZ
	.033	12.5	5.0	8.5	10.0	1.0	.6	E2333-ND	.31	2.67	20.92	133.23	125.53/M	115.59/M	ECQ-E2333KZ
	.039	12.5	5.0	8.5	10.0	1.0	.6	E2393-ND	.31	2.67	20.92	133.23	125.53/M	115.59/M	ECQ-E2393KZ
	.047	12.5	5.0	8.0	10.0	1.0	.6	E2473-ND	.26	2.19	17.16	109.28	102.97/M	94.81/M	ECQ-E2473KZ
	.056	12.5	5.5	8.5	10.0	1.0	.6	E2563-ND	.32	2.76	21.62	137.72	129.76/M	119.48/M	ECQ-E2563KZ
	.068	12.5	5.5	8.5	10.0	1.0	.6	E2683-ND	.33	2.82	22.09	140.72	132.58/M	122.08/M	ECQ-E2683KZ
	.082	12.5	5.5	10.0	10.0	1.0	.6	E2823-ND	.34	2.94	23.03	146.71	138.23/M	127.28/M	ECQ-E2823KZ
	.10	12.5	5.5	10.5	10.0	1.0	.6	E2104-ND	.26	2.20	17.23	109.73	103.39/M	95.20/M	ECQ-E2104KZ
	.12	17.5	5.5	10.0	15.0	1.0	.8	E2124-ND	.40	3.42	26.79	170.66	160.79/M	148.06/M	ECQ-E2124KZ
	.15	17.5	6.0	10.5	15.0	1.0	.8	E2154-ND	.43	3.62	29.14	185.63	174.90/M	161.04/M	ECQ-E2154KZ
.18	17.5	6.0	10.5	15.0	1.0	.8	E2184-ND	.46	3.90	30.55	194.61	183.36/M	168.84/M	ECQ-E2184KZ	
.22	17.5	6.0	11.0	15.0	1.0	.8	E2224-ND	.48	4.08	32.64	205.83	195.11/M	180.24/M	ECQ-E2224KZ	
.27	23.0	6.0	10.5	20.0	1.0	.8	E2274-ND	.55	4.71	36.90	235.03	221.44/M	203.90/M	ECQ-E2274KZ	
.33	23.0	6.0	11.0	20.0	1.0	.8	E2334-ND	.60	5.16	40.42	257.48	242.60/M	223.38/M	ECQ-E2334KZ	
.39	23.0	6.5	11.5	20.0	1.0	.8	E2394-ND	.65	5.55	43.48	276.95	260.93/M	240.26/M	ECQ-E2394KZ	
.47	23.0	7.0	12.0	20.0	1.0	.8	E2474-ND	.69	5.94	46.53	296.41	279.77/M	257.15/M	ECQ-E2474KZ	
.56	23.0	7.5	13.0	20.0	1.0	.8	E2564-ND	.76	6.37	50.19	322.96	302.95/M	280.51/M	ECQ-E2564KZ	
.68	23.0	8.5	14.0	20.0	1.0	.8	E2684-ND	.84	7.17	56.17	357.78	337.10/M	310.39/M	ECQ-E2684KZ	
.82	31.0	7.5	13.0	27.5	1.0	.8	E2824-ND	.92	7.89	61.81	393.71	370.95/M	341.56/M	ECQ-E2824KZ	
1.0	31.0	8.5	14.0	27.5	1.0	.8	E2105-ND	.98	8.37	65.57	417.66	393.51/M	362.34/M	ECQ-E2105KZ	
400	1.2	31.0	8.5	16.0	27.5	1.0	.8	E2125-ND	1.07	9.18	71.91	458.08	431.60/M	397.41/M	ECQ-E2125KZ
	1.5	31.0	9.5	17.0	27.5	1.0	.8	E2155-ND	1.38	11.82	92.59	589.82	555.71/M	511.69/M	ECQ-E2155KZ
	1.8	31.0	9.5	18.5	27.5	1.0	.8	E2185-ND	1.66	14.25	111.63	711.08	669.96/M	616.89/M	ECQ-E2185KZ
	2.2	31.0	10.5	19.5	27.5	1.0	.8	E2225-ND	1.82	15.71	124.20	791.07	741.73/M	689.54/M	ECQ-E2225KZ
	.01	14.0	5.0	8.5	10.5	1.0	.6	E4103-ND	.42	3.60	28.20	179.64	169.26/M	155.85/M	ECQ-E4103KZ
	.012	14.0	5.5	8.5	10.5	1.0	.6	E4123-ND	.42	3.60	28.20	179.64	169.26/M	155.85/M	ECQ-E4123KZ
	.015	14.0	5.0	8.5	10.5	1.0	.6	E4153-ND	.43	3.72	29.14	185.63	174.90/M	161.04/M	ECQ-E4153KZ
	.018	14.0	5.5	8.5	10.5	1.0	.6	E4183-ND	.43	3.72	29.14	185.63	174.90/M	161.04/M	ECQ-E4183KZ
	.022	14.0	5.5	10.0	10.5	1.0	.6	E4223-ND	.44	3.75	29.38	187.13	176.31/M	162.34/M	ECQ-E4223KZ
	.027	14.0	5.5	10.5	10.5	1.0	.6	E4273-ND	.47	3.99	31.26	199.10	187.59/M	172.73/M	ECQ-E4273KZ
	.033	14.0	6.0	11.0	10.5	1.0	.6	E4333-ND	.49	4.16	32.68	209.58	197.48/M	182.48/M	ECQ-E4333KZ
	.039	14.0	6.5	11.5	10.5	1.0	.6	E4393-ND	.50	4.26	33.37	212.57	200.29/M	184.42/M	ECQ-E4393KZ
	.047	14.0	7.0	12.0	10.5	1.0	.6	E4473-ND	.50	4.26	33.37	212.57	200.29/M	184.42/M	ECQ-E4473KZ
	.056	17.0	6.5	11.0	13.5	1.0	.6	E4563-ND	.54	4.59	35.96	229.04	215.80/M	198.71/M	ECQ-E4563KZ
	.068	17.0	7.0	12.0	13.5	1.0	.6	E4683-ND	.57	4.86	38.07	242.51	228.49/M	210.39/M	ECQ-E4683KZ
	.082	17.0	7.5	12.5	13.5	1.0	.6	E4823-ND	.59	5.07	39.72	252.99	238.37/M	219.48/M	ECQ-E4823KZ
	.10	17.0	7.5	14.5	13.5	1.0	.6	E4104-ND	.58	4.98	39.01	248.50	234.14/M	215.59/M	ECQ-E4104KZ
	.12	17.0	8.5	15.5	13.5	1.0	.6	E4154-ND	.66	5.67	45.62	286.58	245.46/M	225.46/M	ECQ-E4154KZ
	.15	17.0	9.0	16.5	13.5	1.0	.8	E4184-ND	.72	6.21	48.65	309.88	259.96/M	238.84/M	ECQ-E4184KZ
	.18	17.0	10.0	17.0	13.5	1.0	.8	E4184-ND	.77	6.63	51.94	330.84	311.71/M	287.02/M	EC