

Panasonic M Series Radial Lead Aluminum Electrolytic Capacitors (Cont.)



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WV (VDC)	Cap. (µF)	Leakage Current (µA)	Ripple tan δ max.	Current (mA) rms	Dimensions (mm)				Digi-Key Part No.	Pricing						Panasonic Part No.
					øD	L	P	ød		1	10	100	500	1,000	5,000	
35	10	3.5	0.14	60	5	11	2.0	0.5	P5161-ND	.11	.56	3.78	12.81	19.60	16.70/M	ECA-1VM100
	22	7.7	0.14	95	5	11	2.0	0.5	P5162-ND	.11	.56	3.78	12.81	19.60	16.70/M	ECA-1VM220
	33	11.5	0.14	110	5	11	2.0	0.5	P5163-ND	.13	.63	4.25	14.41	21.78	18.88/M	ECA-1VM330
	47	16.4	0.14	130	5	11	2.0	0.5	P5164-ND	.13	.63	4.25	14.41	21.78	18.88/M	ECA-1VM470
	100	35.0	0.14	210	6.3	11.2	2.5	0.5	P5165-ND	.15	.74	5.23	18.07	28.31	24.69/M	ECA-1VM101
	220	77.0	0.14	350	8	11.5	3.5	0.6	P5166-ND	.19	1.07	7.68	27.64	42.83	39.93/M	ECA-1VM221
	330	115.5	0.14	440	10	12.5	5.0	0.6	P5167-ND	.26	1.67	11.91	42.86	66.79	61.71/M	ECA-1VM331
	470	164.5	0.14	550	10	16	5.0	0.6	P5168-ND	.31	1.92	13.76	49.53	76.96	71.88/M	ECA-1VM471
	1000	350.0	0.14	900	12.5	20	5.0	0.6	P5169-ND	.54	3.72	27.35	98.92	156.82	151.01/M	ECA-1VM102
	2200	770.0	0.16	1250	16	25	7.5	0.8	P5170-ND	.91	6.03	45.23	160.82	267.17	257.01/M	ECA-1VM222
50	3300	1155.0	0.18	1400	16	31.5	7.5	0.8	P5171-ND	1.07	7.29	55.02	206.31	357.92	346.31/M	ECA-1VM332
	4700	1645.0	0.20	1600	18	35.5	7.5	0.8	P5172-ND	1.76	10.65	80.40	301.49	522.72	506.75/M	ECA-1VM472
	0.33	3.0	0.12	4.4	5	11	2.0	0.5	P5349-ND†	.15	.97	6.53	22.11	33.40	28.32/M	ECA-1HMR33
	0.47	3.0	0.12	5	5	11	2.0	0.5	P5173-ND†	.11	.56	3.78	12.81	19.60	16.70/M	ECA-1HMR47
	1.0	3.0	0.12	10	5	11	2.0	0.5	P5174-ND†	.11	.56	3.78	12.81	19.60	16.70/M	ECA-1HM010
	2.2	3.0	0.12	20	5	11	2.0	0.5	P5175-ND†	.11	.56	3.78	12.81	19.60	16.70/M	ECA-1HM2R2
	3.3	3.0	0.12	35	5	11	2.0	0.5	P5176-ND†	.11	.56	3.78	12.81	19.60	16.70/M	ECA-1HM3R3
	4.7	3.0	0.12	45	5	11	2.0	0.5	P5177-ND†	.11	.56	3.78	12.81	19.60	16.70/M	ECA-1HM4R7
	10	5.0	0.12	65	5	11	2.0	0.5	P5178-ND†	.11	.56	3.78	12.81	19.60	16.70/M	ECA-1HM100
	22	11.0	0.12	100	5	11	2.0	0.5	P5179-ND†	.13	.63	4.25	14.41	21.78	18.88/M	ECA-1HM220
63	33	16.5	0.12	110	5	11	2.0	0.5	P5180-ND†	.13	.63	4.25	14.41	21.78	18.88/M	ECA-1HM330
	47	23.5	0.12	130	6.3	11.2	2.5	0.5	P5181-ND†	.18	.88	5.90	19.97	30.49	25.41/M	ECA-1HM470
	100	50.0	0.12	250	8	11.5	3.5	0.6	P5182-ND†	.21	1.20	8.44	29.18	44.74	39.93/M	ECA-1HM101
	220	110.0	0.12	400	10	12.5	5.0	0.6	P5183-ND†	.27	1.78	12.69	45.67	71.15	66.07/M	ECA-1HM221
	330	165.0	0.12	500	10	16	5.0	0.6	P5184-ND†	.31	1.86	13.66	49.43	78.41	75.51/M	ECA-1HM331
	470	235.0	0.12	650	10	20	5.0	0.6	P5185-ND†	.38	2.54	18.65	67.45	107.45	103.10/M	ECA-1HM471
	1000	500.0	0.12	1050	12.5	25	5.0	0.6	P5186-ND†	.75	4.44	33.32	118.48	196.75	189.49/M	ECA-1HM102
	2200	1100.0	0.14	1300	16	31.5	7.5	0.8	P5187-ND†	1.34	7.85	59.24	222.16	384.78	373.17/M	ECA-1HM222
	3300	1650.0	0.16	1500	18	35.5	7.5	0.8	P5188-ND†	1.82	10.65	80.40	301.49	522.72	506.75/M	ECA-1HM332
	100	10	6.3	0.11	70	5	11	2.0	0.5	P5189-ND	.12	.63	4.25	14.41	21.78	18.88/M
22		13.8	0.11	105	5	11	2.0	0.5	P5190-ND	.13	.63	4.25	14.41	21.78	18.88/M	ECA-1JM220
33		20.7	0.11	130	6.3	11.2	2.5	0.5	P5191-ND	.14	.74	5.23	18.07	28.31	24.69/M	ECA-1JM330
47		29.6	0.11	160	6.3	11.2	2.5	0.5	P5192-ND	.15	.81	5.67	19.59	31.22	26.87/M	ECA-1JM470
100		63.0	0.11	270	8	11.5	3.5	0.6	P5193-ND	.23	1.30	9.26	33.32	51.55	47.92/M	ECA-1JM101
220		138.6	0.11	450	10	16	5.0	0.6	P5194-ND	.33	1.86	13.66	49.43	78.41	75.51/M	ECA-1JM221
330		207.9	0.11	550	10	20	5.0	0.6	P5195-ND	.46	2.64	19.40	70.17	111.08	107.45/M	ECA-1JM331
470		296.1	0.11	750	12.5	20	5.0	0.6	P5196-ND	.67	3.81	28.57	101.58	169.16	162.63/M	ECA-1JM471
1000		630.0	0.11	1100	16	25	7.5	0.8	P5197-ND	1.02	6.03	45.23	160.82	267.17	257.01/M	ECA-1JM102
2200		1386.0	0.13	1400	18	35.5	7.5	0.8	P5198-ND	1.92	11.22	84.64	317.39	550.31	532.89/M	ECA-1JM222
160	0.47	3.0	0.10	10	5	11	2.0	0.5	P5199-ND	.13	.66	4.44	15.02	23.23	19.61/M	ECA-2AMR47
	1.0	3.0	0.10	20	5	11	2.0	0.5	P5305-ND	.13	.66	4.44	15.02	23.23	19.61/M	ECA-2AM010
	2.2	3.0	0.10	30	5	11	2.0	0.5	P5306-ND	.14	.66	4.44	15.02	23.23	19.61/M	ECA-2AM2R2
	3.3	3.3	0.10	40	5	11	2.0	0.5	P5307-ND	.14	.66	4.44	15.02	23.23	19.61/M	ECA-2AM3R3
	4.7	4.7	0.10	50	5	11	2.0	0.5	P5308-ND	.14	.66	4.44	15.02	23.23	19.61/M	ECA-2AM4R7
	10	10.0	0.10	70	5	11	2.0	0.5	P5309-ND	.14	.68	4.59	15.55	23.96	20.33/M	ECA-2AM100
	22	22.0	0.10	115	6.3	11.2	2.5	0.5	P5310-ND	.15	.81	5.67	19.59	31.22	26.87/M	ECA-2AM220
	33	33.0	0.10	145	8	11.5	3.5	0.6	P5311-ND	.28	1.44	10.19	35.17	55.90	47.92/M	ECA-2AM330
	47	47.0	0.10	180	8	11.5	3.5	0.6	P5312-ND	.23	1.37	9.79	35.22	54.45	50.82/M	ECA-2AM470
	100	100.0	0.10	350	10	16	5.0	0.6	P5313-ND	.35	2.10	15.41	55.73	88.57	84.95/M	ECA-2AM101
250	220	220.0	0.10	550	12.5	20	5.0	0.6	P5314-ND	.68	3.96	29.74	105.76	175.69	169.16/M	ECA-2AM221
	330	330.0	0.10	700	12.5	25	5.0	0.6	P5315-ND	.88	5.07	38.08	135.38	225.06	216.35/M	ECA-2AM331
	470	470.0	0.10	900	16	25	7.5	0.8	P5316-ND	1.15	6.73	50.78	190.42	330.33	320.17/M	ECA-2AM471
	1000	1000.0	0.10	1300	18	35.5	7.5	0.8	P5317-ND	2.11	12.89	97.33	364.98	632.35	613.47/M	ECA-2AM102
	1.0	19.6	0.16	36	6.3	11.2	2.5	0.5	P5318-ND	.23	.99	6.99	24.14	38.48	33.40/M	ECA-2CM010
	2.2	31.1	0.16	53	6.3	11.2	2.5	0.5	P5319-ND	.24	.99	6.99	24.14	38.48	33.40/M	ECA-2CM2R2
	3.3	41.6	0.16	66	6.3	11.2	2.5	0.5	P5320-ND	.21	.89	6.35	22.87	35.57	33.40/M	ECA-2CM3R3
	4.7	55.1	0.16	78	6.3	11.2	2.5	0.5	P5321-ND	.23	.89	6.35	22.87	35.57	33.40/M	ECA-2CM4R7
	10	103.0	0.16	105	10	12.5	5.0	0.6	P5322-ND	.30	1.67	11.91	42.86	66.79	61.71/M	ECA-2CM100
	22	221.0	0.16	175	10	16	5.0	0.6	P5323-ND	.37	1.86	13.66	49.43	78.41	75.51/M	ECA-2CM220
450	33	326.0	0.16	235	10	20	5.0	0.6	P5324-ND	.49	2.20	16.15	58.44	92.93	89.30/M	ECA-2CM330
	47	461.0	0.16	320	12.5	20	5.0	0.6	P5325-ND	.72	3.49	26.19	93.10	154.64	148.83/M	ECA-2CM470
	100	970.0	0.16	515	12.5	25	5.0	0.6	P5326-ND	.90	4.44	33.32	118.48	196.75	189.49/M	ECA-2CM101
	220	2122.0	0.16	830	16	31.5	7.5	0.8	P5327-ND	1.30	7.01	52.90	198.36	344.12	333.24/M	ECA-2CM221
	330	3178.0	0.16	1090	18	31.5	7.5	0.8	P5328-ND	2.23	13.45	101.55	380.82	659.93	639.61/M	ECA-2CM331
	470	4522.0	0.16	1440	18	40	7.5	0.8	P5329-ND	3.02	17.66	133.29	499.85	866.12	839.99/M	ECA-2CM471
	1.0	25.0	0.18	34	6.3	11.2	2.5	0.5	P5330-ND	.21	.89	6.35	22.87	35.57	33.40/M	ECA-2EM010
	2.2	43.0	0.18	50	6.3	11.2	2.5	0.5	P5331-ND	.21	.89	6.35	22.87	35.57	33.40/M	ECA-2EM2R2
	3.3	59.5	0.18	72	8	11.5	3.5	0.6	P5332-ND	.26	1.30	9.26	33.32	51.55	47.92/M	ECA-2EM3R3
	4.7	80.5	0.18	86	8	11.5	3.5	0.6	P5333-ND	.30	1.30	9.26	33.32	51.55	47.92/M	ECA-2EM4R7
10	160.0	0.18	110	10	16	5.0	0.6	P5334-ND	.37	1.86	13.66	49.43	78.41	75.51/M	ECA-2EM100	
1000	22	340.0	0.18	180	10	20	5.0	0.6	P5335-ND	.59	2.44	17.90	64.74	103.09		