

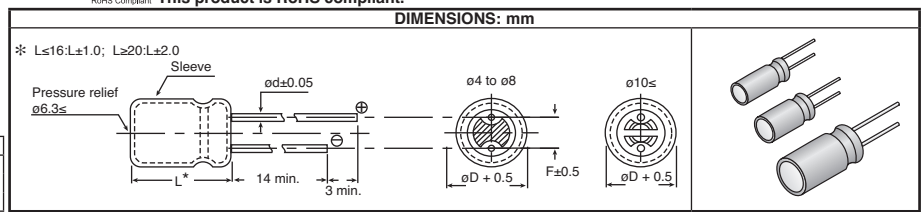
# PANASONIC Radial Aluminum Electrolytics



**This product is RoHS compliant.**

## M SERIES - TYPE A

- Features:**
- Endurance: 85°C 2000h
  - Smaller than series SU
  - RoHS directive compliant



Diameter Lead Space Matrix							
Body Dia. øD	5	6.3	8	10	12.5	16	18
Lead Dia. ød	0.5	0.5	0.6	0.6	0.6	0.8	0.8
Lead space F	2.0	2.5	3.5	5.0	5.0	7.5	7.5

Specifications		
Category Temp. Range	-40°C to +85°C	-25°C to +85°C
Rated W.V. Range	6.3Vdc to 100Vdc	160Vdc to 450Vdc
Nominal Cap. Range	0.1µF to 4200µF	160Vdc to 450Vdc
Capacitance Tolerance	±20% (120Hz/+20°C)	
DC Leakage Current	1±0.01CV or 3 (µA) After 2 minutes (whichever is greater)	

For quantities greater than listed, call for quote.

MOUSER STOCK NO.	Panasonic Part No.	Value (µF)	Voltage	Dimensions (DxL) (mm)	Price Each				MOUSER STOCK NO.	Panasonic Part No.	Value (µF)	Voltage	Dimensions (DxL) (mm)	Price Each			
					1	25	100	500						1	25	100	500
667-ECA-0JM221	ECA-0JM221	220	6.3	5x11	.20	.08	.068	.046	667-ECA-1JM471	ECA-1JM471	470	63	12.5x20	.80	.506	.436	.337
667-ECA-0JM471	ECA-0JM471	470	6.3	6.3x11.2	.25	.112	.095	.067	667-ECA-1JM102	ECA-1JM102	1,000	63	16x25	1.13	.772	.668	.505
667-ECA-0JM102	ECA-0JM102	1,000	6.3	8x11.5	.33	.158	.135	.101	ECA-1JM222	ECA-1JM222	2,200	63	18x35.5	2.13	1.50	1.31	1.00
667-ECA-0JM222	ECA-0JM222	2,200	6.3	10x16	.46	.247	.215	.159	667-ECA-2AMR47	ECA-2AMR47	0.47	100	5x11	.23	.095	.08	.054
667-ECA-0JM332	ECA-0JM332	3,300	6.3	10x20	.64	.339	.295	.219	667-ECA-2AM010	ECA-2AM010	1.0	100	5x11	.23	.095	.08	.054
667-ECA-0JM472	ECA-0JM472	4,700	6.3	12.5x20	.74	.438	.375	.297	667-ECA-2AM2R2	ECA-2AM2R2	2.2	100	5x11	.23	.095	.08	.054
667-ECA-0JM682	ECA-0JM682	6,800	6.3	12.5x25	.90	.569	.49	.379	667-ECA-2AM3R3	ECA-2AM3R3	3.3	100	5x11	.23	.095	.08	.054
667-ECA-0JM103	ECA-0JM103	10,000	6.3	16x25	1.01	.691	.598	.451	667-ECA-2AM4R7	ECA-2AM4R7	4.7	100	5x11	.23	.095	.08	.054
667-ECA-0JM153	ECA-0JM153	15,000	6.3	16x31.5	1.43	.975	.844	.637	667-ECA-2AM100	ECA-2AM100	10	100	5x11	.24	.098	.083	.056
667-ECA-0JM223	ECA-0JM223	22,000	6.3	18x35.5	1.86	1.31	1.14	.875	667-ECA-2AM220	ECA-2AM220	22	100	6.3x11.2	.27	.122	.103	.073
667-ECA-1AM331	ECA-1AM331	330	10	6.3x11.2	.25	.112	.095	.067	667-ECA-2AM330	ECA-2AM330	33	100	8x11.5	.39	.191	.164	.123
667-ECA-1AM102	ECA-1AM102	1,000	10	10x12.5	.44	.213	.182	.137	667-ECA-2AM470	ECA-2AM470	47	100	8x11.5	.42	.202	.173	.13
667-ECA-1AM222	ECA-1AM222	2,200	10	10x20	.64	.339	.295	.219	667-ECA-2AM101	ECA-2AM101	100	100	10x16	.56	.30	.261	.194
667-ECA-1AM332	ECA-1AM332	3,300	10	12.5x20	.74	.438	.375	.297	667-ECA-2AM221	ECA-2AM221	220	100	12.5x20	.84	.527	.454	.351
667-ECA-1AM472	ECA-1AM472	4,700	10	12.5x25	.90	.569	.49	.379	667-ECA-2AM331	ECA-2AM331	330	100	12.5x25	.95	.65	.562	.425
667-ECA-1AM682	ECA-1AM682	6,800	10	16x25	1.01	.691	.598	.451	667-ECA-2AM471	ECA-2AM471	470	100	16x25	1.43	.975	.844	.637
667-ECA-1AM103	ECA-1AM103	10,000	10	16x31.5	1.43	.975	.844	.637	667-ECA-2AM102	ECA-2AM102	1,000	100	18x35.5	2.45	1.73	1.51	1.15
667-ECA-1AM153	ECA-1AM153	15,000	10	18x35.5	1.86	1.31	1.14	.875	667-ECA-2CM010	ECA-2CM010	1	160	6.3x11.2	.33	.15	.127	.09
667-ECA-1CM100	ECA-1CM100	10	16	5x11	.20	.08	.068	.046	667-ECA-2CM2R2	ECA-2CM2R2	2.2	160	6.3x11.2	.33	.15	.127	.09
667-ECA-1CM220	ECA-1CM220	22	16	5x11	.20	.08	.068	.046	667-ECA-2CM3R3	ECA-2CM3R3	3.3	160	6.3x11.2	.33	.15	.127	.09
667-ECA-1CM330	ECA-1CM330	33	16	5x11	.20	.08	.068	.046	667-ECA-2CM4R7	ECA-2CM4R7	4.7	160	6.3x11.2	.33	.15	.127	.09
667-ECA-1CM470	ECA-1CM470	47	16	5x11	.20	.08	.068	.046	667-ECA-2CM100	ECA-2CM100	10	160	10x12.5	.41	.218	.189	.14
667-ECA-1CM101	ECA-1CM101	100	16	5x11	.22	.091	.077	.053	667-ECA-2CM220	ECA-2CM220	22	160	10x16	.50	.266	.232	.172
667-ECA-1CM221	ECA-1CM221	220	16	6.3x11.2	.25	.112	.095	.067	667-ECA-2CM330	ECA-2CM330	33	160	10x20	.59	.315	.274	.203
667-ECA-1CM471	ECA-1CM471	470	16	8x11.5	.33	.158	.135	.101	667-ECA-2CM470	ECA-2CM470	47	160	12.5x20	.82	.481	.412	.326
667-ECA-1CM102	ECA-1CM102	1,000	16	10x16	.46	.247	.215	.159	667-ECA-2CM101	ECA-2CM101	100	160	12.5x25	.94	.591	.508	.394
667-ECA-1CM222	ECA-1CM222	2,200	16	12.5x20	.74	.438	.375	.297	667-ECA-2CM221	ECA-2CM221	220	160	16x31.5	1.49	1.02	.879	.664
667-ECA-1CM332	ECA-1CM332	3,300	16	12.5x25	.90	.569	.49	.379	667-ECA-2CM331	ECA-2CM331	330	160	18x31.5	2.55	1.80	1.57	1.20
667-ECA-1CM472	ECA-1CM472	4,700	16	16x25	1.01	.691	.598	.451	667-ECA-2CM471	ECA-2CM471	470	160	18x40	3.35	2.36	2.06	1.57
667-ECA-1CM682	ECA-1CM682	6,800	16	16x31.5	1.43	.975	.844	.637	667-ECA-2DM010	ECA-2DM010	1.0	200	6.3x11.2	.33	.15	.127	.09
667-ECA-1CM103	ECA-1CM103	10,000	16	18x35.5	1.86	1.31	1.14	.875	667-ECA-2DM2R2	ECA-2DM2R2	2.2	200	6.3x11.2	.33	.15	.127	.09
667-ECA-1EM101	ECA-1EM101	100	25	6.3x11.2	.25	.112	.095	.067	667-ECA-2DM3R3	ECA-2DM3R3	3.3	200	6.3x11.2	.33	.15	.127	.09
667-ECA-1EM331	ECA-1EM331	330	25	8x11.5	.33	.158	.135	.101	667-ECA-2DM4R7	ECA-2DM4R7	4.7	200	8x11.5	.57	.328	.273	.174
667-ECA-1EM471	ECA-1EM471	470	25	10x12.5	.41	.218	.189	.14	667-ECA-2DM100	ECA-2DM100	10	200	10x12.5	.41	.218	.189	.14
667-ECA-1EM102	ECA-1EM102	1,000	25	10x20	.68	.363	.316	.234	667-ECA-2DM220	ECA-2DM220	22	200	10x20	.59	.315	.274	.203
667-ECA-1EM222	ECA-1EM222	2,200	25	12.5x25	.90	.569	.49	.379	667-ECA-2DM330	ECA-2DM330	33	200	10x20	.92	.553	.484	.224
667-ECA-1EM332	ECA-1EM332	3,300	25	16x25	1.13	.772	.668	.505	667-ECA-2DM470	ECA-2DM470	47	200	12.5x20	.82	.481	.412	.326
667-ECA-1EM472	ECA-1EM472	4,700	25	16x31.5	1.55	1.06	.914	.691	667-ECA-2DM101	ECA-2DM101	100	200	16x25	1.13	.772	.668	.505
667-ECA-1EM682	ECA-1EM682	6,800	25	18x35.5	2.02	1.43	1.24	.95	667-ECA-2DM221	ECA-2DM221	220	200	18x31.5	3.34	2.57	1.57	1.19
667-ECA-1VM470	ECA-1VM470	47	35	5x11	.22	.091	.077	.053	667-ECA-2DM331	ECA-2DM331	330	200	18x40	3.67	3.07	2.95	1.47
667-ECA-1VM101	ECA-1VM101	100	35	6.3x11.2	.25	.112	.095	.067	667-ECA-2EM010	ECA-2EM010	1	250	6.3x11.2	.33	.15	.127	.09
667-ECA-1VM221	ECA-1VM221	220	35	8x11.5	.33	.158	.135	.101	667-ECA-2EM2R2	ECA-2EM2R2	2.2	250	6.3x11.2	.33	.15	.127	.09
667-ECA-1VM331	ECA-1VM331	330	35	10x12.5	.41	.218	.189	.14	667-ECA-2EM3R3	ECA-2EM3R3	3.3	250	8x11.5	.39	.191	.164	.123
667-ECA-1VM471	ECA-1VM471	470	35	10x16	.47	.252	.219	.162	667-ECA-2EM4R7	ECA-2EM4R7	4.7	250	8x11.5	.39	.191	.164	.123
667-ECA-1VM102	ECA-1VM102	1,000	35	12.5x20	.82	.481	.412	.326	667-ECA-2EM100	ECA-2EM100	10	250	10x16	.50	.266	.232	.172
667-ECA-1VM222	ECA-1VM222	2,200	35	16x25	1.13	.772	.668	.505	667-ECA-2EM220	ECA-2EM220	22	250	10x20	.65	.349	.304	.225
667-ECA-1VM332	ECA-1VM332	3,300	35	16x31.5	1.55	1.06	.914	.691	667-ECA-2EM330	ECA-2EM330	33	250	12.5x20	.82	.481	.412	.326
667-ECA-1VM472	ECA-1VM472	4,700	35	18x35.5	2.02	1.43	1.24	.95	667-ECA-2EM470	ECA-2EM470	47	250	12.5x25	.94	.591	.508	.394
667-ECA-1HM0R1	ECA-1HM0R1	0.1	50	5x11	.11	.09	.075	.055	667-ECA-2EM101	ECA-2EM101	100	250	16x31.5	1.49	1.02	.879	.664
667-ECA-1HMR22	ECA-1HMR22	0.22	50	5x11	.11	.09	.075	.055	667-ECA-2EM221	ECA-2EM221	220	250	18x40	3.35	2.36	2.06	1.57
667-ECA-1HMR33	ECA-1HMR33	0.33	50	5x11	.20	.08	.068	.046	667-ECA-2VM010	ECA-2VM010	1.0	350	6.3x11.2	.44	.25	.209	.133
667-ECA-1HMR47	ECA-1HMR47	0.47	50	5x11	.20	.08	.068	.046	667-ECA-2VM2R2	ECA-2VM2R2	2.2	350	8x11.5	.63	.361	.301	.192
667-ECA-1HM010	ECA-1HM010	1.0	50	5x11	.20	.08	.068	.046	667-ECA-2VM3R3	ECA-2VM3R3	3.3	350	8x11.5	.63	.361	.301	.192
667-ECA-1HM2R2	ECA-1HM2R2	2.2	50	5x11	.20	.08	.068	.046	667-ECA-2VM4R7	ECA-2VM4R7	4.7	350	10x12.5	.47	.252	.219	.162
667-ECA-1HM3R3	ECA-1HM3R3	3.3	50	5x11	.20	.08	.068	.046	667-ECA-2VM100	ECA-2VM100	10	350	10x20	.88	.563	.507	.407
667-ECA-1HM4R7	ECA-1HM4R7	4.7	50	5x11	.20	.08	.068	.046	667-ECA-2VM220	ECA-2VM220	22	350	12.5x20	1.11	.756	.686	.351
667-ECA-1HM100	ECA-1HM100	10	50	5x11	.20	.08	.068	.046	667-ECA-2VM330	ECA-2VM330	33	350	16x25	1.24	.989	.877	.734
667-ECA-1HM220	ECA-1HM220	22	50	5x11	.22	.091	.077	.053	667-ECA-2VM470	ECA-2VM470	47	350	16x25	2.18	1.58	1.44	1.17
667-ECA-1HM330	ECA-1HM330	33	50	5x11	.22	.091	.077	.053	667-ECA-2VM101	ECA-2VM101	100	350	18x31.5	2.66	1.88	1.64	1.25
667-ECA-1HM470	ECA-1HM470	47	50	6.3x11.2	.25	.112	.095	.067	667-ECA-2GM010	ECA-2GM010	1.0	400	6.3x11.2	.44	.25	.209	.133
667-ECA-1HM101	ECA-1HM101	100	50	8x11.5	.33	.158	.135	.101	667-ECA-2GM2R2	ECA-2GM2R2	2.2	400	8x11.5	.63	.361	.301	.192
667-ECA-1HM221	ECA-1HM221	220	50	10x12.5	.44	.232	.202	.15	667-ECA-2GM3R3	ECA-2GM3R3	3.3	400	10x12.5	.64	.382		