

Overview

The KEMET EST radial aluminum electrolytic capacitors are designed for low impedance and long life (up to 10,000 hours) applications.

Applications

Typical applications include SMPS, power supplies, adaptors, chargers, monitors, and computers.

Benefits

- Long life, up to 10,000 hours
- Low impedance
- Operating temperature of up to +105°C
- Case with Ø D ≥ 5 mm
- Safety vent on the capacitor base



Part Number System

EST	157	M	6R3		A	C3	AA
Series	Capacitance Code (pF)	Tolerance	Rated Voltage (VDC)		Electrical Parameters	Size Code	Packaging
Radial Aluminum Electrolytic	First two digits represent significant figures for capacitance values. Last digit specifies the number of zeros to be added.	M = ±20%	6R3 = 6.3 010 = 10 016 = 16 025 = 25	035 = 35 050 = 50 063 = 63 100 = 100	A = Standard	See Dimension Table	See Ordering Options Table

**Table 1 – Ratings & Part Number Reference**

VDC	VDC Surge Voltage	Rated Capacitance 120 Hz 20°C (μF)	Case Size D x L (mm)	DF 120 Hz 20°C (tan δ %)*	Z 100 kHz 20°C (Ω)	RC 100 kHz 105°C (mA)	ESR 100 kHz 25°C (Ω)	LC 20°C 2 Minutes (μA)	Part Number
6.3	8	150	5 x 11	22	0.720	210	0.72	9.5	EST157M6R3AC3(1)
6.3	8	330	6.3 x 11	22	0.380	340	0.38	20.8	EST337M6R3AE3(1)
6.3	8	680	8 x 11	22	0.200	640	0.2	42.8	EST687M6R3AG3(1)
6.3	8	820	8 x 15	22	0.160	840	0.16	51.7	EST827M6R3AG4(1)
6.3	8	1000	10 x 12	22	0.120	865	0.12	63.0	EST108M6R3AH1(1)
6.3	8	1000	10 x 12.5	22	0.120	865	0.12	63.0	EST108M6R3AH9(1)
6.3	8	1500	8 x 20	22	0.110	1050	0.11	94.5	EST158M6R3AG6(1)
6.3	8	1500	10 x 15	22	0.084	1210	0.084	94.5	EST158M6R3AH2(1)
6.3	8	2200	10 x 20	22	0.062	1400	0.062	138.6	EST228M6R3AH4(1)
6.3	8	2700	10 x 25	22	0.052	1650	0.052	170.1	EST278M6R3AH5(1)
6.3	8	3300	13 x 20	22	0.046	1900	0.046	207.9	EST338M6R3AL3(1)
6.3	8	3900	13 x 25	22	0.034	2230	0.034	245.7	EST398M6R3AL4(1)
6.3	8	4700	13 x 30	22	0.030	2650	0.03	296.1	EST478M6R3AL8(1)
6.3	8	5600	13 x 35	22	0.027	2880	0.027	352.8	EST568M6R3AL6(1)
6.3	8	6800	13 x 40	22	0.024	3350	0.024	428.4	EST688M6R3AL7(1)
6.3	8	6800	16 x 25	22	0.028	2930	0.028	428.4	EST688M6R3AM7(1)
6.3	8	8200	16 x 32	22	0.025	3450	0.025	516.6	EST828M6R3AM2(1)
6.3	8	10000	16 x 36	22	0.018	3610	0.018	630.0	EST109M6R3AM3(1)
6.3	8	12000	18 x 32	22	0.015	4170	0.015	756.0	EST129M6R3AN1(1)
6.3	8	15000	18 x 36	22	0.014	4220	0.014	945.0	EST159M6R3AN2(1)
10	13	100	5 x 11	19	0.720	210	0.72	10.0	EST107M010AC3(1)
10	13	220	6.3 x 11	19	0.380	340	0.38	22.0	EST227M010AE3(1)
10	13	470	8 x 11	19	0.200	640	0.2	47.0	EST477M010AG3(1)
10	13	680	8 x 15	19	0.160	840	0.16	68.0	EST687M010AG4(1)
10	13	1000	10 x 15	19	0.084	1210	0.084	100.0	EST108M010AH2(1)
10	13	1000	18 x 36	19	0.014	4220	0.014	100.0	EST108M010AN2(1)
10	13	1500	10 x 20	19	0.062	1400	0.062	150.0	EST158M010AH4(1)
10	13	2200	10 x 25	19	0.052	1650	0.052	220.0	EST228M010AH5(1)
10	13	2700	13 x 20	19	0.046	1900	0.046	270.0	EST278M010AL3(1)
10	13	3300	13 x 25	19	0.034	2230	0.034	330.0	EST338M010AL4(1)
10	13	3900	13 x 30	19	0.030	2650	0.03	390.0	EST398M010AL8(1)
10	13	4700	13 x 35	19	0.027	2880	0.027	470.0	EST478M010AL6(1)
10	13	5600	13 x 40	19	0.024	3350	0.024	560.0	EST568M010AL7(1)
10	13	5600	16 x 25	19	0.028	2930	0.028	560.0	EST568M010AM7(1)
10	13	6800	16 x 32	19	0.025	3450	0.025	680.0	EST688M010AM2(1)
10	13	8200	16 x 36	19	0.018	3610	0.018	820.0	EST828M010AM3(1)
10	13	10000	18 x 36	19	0.014	4220	0.014	1000.0	EST109M010AN2(1)
16	20	56	5 x 11	16	0.720	210	0.72	9.0	EST566M016AC3(1)
16	20	100	6.3 x 11	16	0.380	340	0.38	16.0	EST107M016AE3(1)
16	20	220	8 x 11	16	0.200	640	0.2	35.2	EST227M016AG3(1)
16	20	330	8 x 15	16	0.160	701	0.16	52.8	EST337M016AG4(1)
16	20	470	8 x 15	16	0.160	840	0.16	75.2	EST477M016AG4(1)
16	20	680	10 x 15	16	0.084	1210	0.084	108.8	EST687M016AH2(1)
16	20	1000	10 x 20	16	0.062	1400	0.062	160.0	EST108M016AH4(1)
16	20	1500	10 x 25	16	0.052	1650	0.052	240.0	EST158M016AH5(1)
16	20	2200	13 x 25	16	0.034	2230	0.034	352.0	EST228M016AL4(1)
16	20	2700	13 x 30	16	0.030	2650	0.03	432.0	EST278M016AL8(1)
16	20	3300	13 x 35	16	0.027	2880	0.027	528.0	EST338M016AL6(1)
16	20	3900	13 x 40	16	0.024	3350	0.024	624.0	EST398M016AL7(1)
16	20	4700	16 x 32	16	0.028	3450	0.028	752.0	EST478M016AM2(1)
16	20	5600	16 x 36	16	0.018	3610	0.018	896.0	EST568M016AM3(1)
16	20	5600	18 x 32	16	0.015	4170	0.015	896.0	EST568M016AN1(1)
16	20	6800	18 x 36	16	0.014	4220	0.014	1088.0	EST688M016AN2(1)
25	32	47	5 x 11	14	0.720	210	0.72	11.8	EST476M025AC3(1)
25	32	100	6.3 x 11	14	0.380	340	0.38	25.0	EST107M025AE3(1)
25	32	150	8 x 11	14	0.200	640	0.2	37.5	EST157M025AG3(1)
25	32	220	8 x 11	14	0.200	640	0.2	55.0	EST227M025AG3(1)
VDC	VDC Surge	Rated Capacitance	Case Size	DF	Z	RC	ESR	LC	Part Number

(1) Insert packaging code. See Ordering Options Table for available options.

\* When capacitance exceeds 1,000 μF, the DF value (%) is increased by 2% for every additional 1,000 μF.

**Table 1 – Ratings & Part Number Reference cont.**

VDC	VDC Surge Voltage	Rated Capacitance 120 Hz 20°C (μF)	Case Size D x L (mm)	DF 120 Hz 20°C (tan δ %)*	Z 100 kHz 20°C (Ω)	RC 100 kHz 105°C (mA)	ESR 100 kHz 25°C (Ω)	LC 20°C 2 Minutes (μA)	Part Number
25	32	330	8 x 15	14	0.160	840	0.16	82.5	EST337M025AG4(1)
25	32	470	10 x 15	14	0.084	1210	0.084	117.5	EST477M025AH2(1)
25	32	680	10 x 20	14	0.062	1400	0.062	170.0	EST687M025AH4(1)
25	32	820	10 x 25	14	0.052	1650	0.052	205.0	EST827M025AH5(1)
25	32	1000	13 x 20	14	0.046	1900	0.046	250.0	EST108M025AL3(1)
25	32	1500	13 x 25	14	0.034	2230	0.034	375.0	EST158M025AL4(1)
25	32	2200	13 x 35	14	0.027	2880	0.027	550.0	EST228M025AL6(1)
25	32	2700	16 x 25	14	0.028	2930	0.028	675.0	EST278M025AM7(1)
25	32	3300	16 x 32	14	0.025	3450	0.025	825.0	EST338M025AM2(1)
25	32	3900	18 x 32	14	0.015	4170	0.015	975.0	EST398M025AN1(1)
25	32	4700	18 x 36	14	0.014	4280	0.014	1175.0	EST478M025AN2(1)
35	44	33	5 x 11	12	0.720	210	0.72	11.6	EST336M035AC3(1)
35	44	47	6.3 x 11	12	0.380	340	0.38	16.5	EST476M035AE3(1)
35	44	150	8 x 11	12	0.200	640	0.2	52.5	EST157M035AG3(1)
35	44	220	8 x 15	12	0.160	840	0.16	77.0	EST227M035AG4(1)
35	44	330	10 x 20	12	0.062	1400	0.062	115.5	EST337M035AH4(1)
35	44	470	10 x 25	12	0.052	1650	0.052	164.5	EST477M035AH5(1)
35	44	680	10 x 30	12	0.044	1910	0.044	238.0	EST687M035AH6(1)
35	44	680	13 x 20	12	0.046	1900	0.046	238.0	EST687M035AL3(1)
35	44	820	13 x 25	12	0.045	2230	0.045	287.0	EST827M035AL4(1)
35	44	1000	13 x 25	12	0.045	2230	0.045	350.0	EST108M035AL4(1)
35	44	1200	13 x 30	12	0.030	2650	0.03	420.0	EST128M035AL8(1)
35	44	1500	13 x 35	12	0.027	2880	0.027	525.0	EST158M035AL6(1)
35	44	1800	13 x 40	12	0.024	3350	0.024	630.0	EST188M035AL7(1)
35	44	2200	16 x 32	12	0.025	3450	0.025	770.0	EST228M035AM2(1)
35	44	2700	16 x 36	12	0.022	3610	0.022	945.0	EST278M035AM3(1)
35	44	3300	18 x 36	12	0.020	4220	0.02	1155.0	EST338M035AN2(1)
50	63	10	5 x 11	14	3.500	120	3.5	5.0	EST106M050AC3(1)
50	63	22	5 x 11	14	2.300	210	2.3	11.0	EST226M050AC3(1)
50	63	33	6.3 x 11	14	1.200	340	1.2	16.5	EST336M050AE3(1)
50	63	47	6.3 x 11	14	1.200	340	1.2	23.5	EST476M050AE3(1)
50	63	100	8 x 11	14	0.630	555	0.63	50.0	EST107M050AG3(1)
50	63	120	8 x 15	14	0.450	730	0.45	60.0	EST127M050AG4(1)
50	63	150	8 x 20	14	0.330	910	0.33	75.0	EST157M050AG6(1)
50	63	220	10 x 15	10	0.310	1050	#NA	110.0	EST227M050AH2(1)
50	63	220	10 x 16	14	0.310	1050	0.31	110.0	EST227M050AH8(1)
50	63	330	10 x 20	14	0.210	1400	0.21	165.0	EST337M050AH4(1)
50	63	470	10 x 30	14	0.150	1690	0.15	235.0	EST477M050AH6(1)
50	63	470	13 x 20	14	0.160	1660	0.16	235.0	EST477M050AL3(1)
50	63	560	13 x 25	14	0.120	1950	0.12	280.0	EST567M050AL4(1)
50	63	680	13 x 30	14	0.100	2310	0.1	340.0	EST687M050AL8(1)
50	63	820	13 x 35	14	0.083	2510	0.083	410.0	EST827M050AL6(1)
50	63	1000	16 x 25	14	0.073	2555	0.073	500.0	EST108M050AM7(1)
50	63	1200	16 x 32	14	0.054	3010	0.054	600.0	EST128M050AM2(1)
50	63	1500	16 x 36	14	0.045	3150	0.045	750.0	EST158M050AM3(1)
50	63	1800	18 x 32	14	0.047	3635	0.047	900.0	EST188M050AN1(1)
50	63	2200	18 x 36	14	0.040	3680	0.04	1100.0	EST228M050AN2(1)
50	63	2700	18 x 40	14	0.036	3800	0.036	1350.0	EST278M050AN3(1)
63	79	10	5 x 11	14	2.300	55	2.3	6.3	EST106M063AC3(1)
63	79	33	6.3 x 11	14	1.200	115	1.2	20.8	EST336M063AE3(1)
63	79	56	8 x 11	14	0.630	232	0.63	35.3	EST566M063AG3(1)
63	79	120	10 x 15	14	0.310	357	0.31	75.6	EST127M063AH2(1)
63	79	120	10 x 16	14	0.310	357	0.31	75.6	EST127M063AH8(1)
63	79	180	10 x 20	14	0.210	466	0.21	113.4	EST187M063AH4(1)
63	79	220	10 x 25	14	0.200	531	0.2	138.6	EST227M063AH5(1)
63	79	270	10 x 30	14	0.150	663	0.15	170.1	EST277M063AH6(1)
63	79	270	13 x 20	14	0.160	690	0.16	170.1	EST277M063AL3(1)
VDC	VDC Surge	Rated Capacitance	Case Size	DF	Z	RC	ESR	LC	Part Number

(1) Insert packaging code. See Ordering Options Table for available options.

\* When capacitance exceeds 1,000 μF, the DF value (%) is increased by 2% for every additional 1,000 μF.

**Table 1 – Ratings & Part Number Reference cont.**

VDC	VDC Surge Voltage	Rated Capacitance 120 Hz 20°C (μF)	Case Size D x L (mm)	DF 120 Hz 20°C (tan δ %)*	Z 100 kHz 20°C (Ω)	RC 100 kHz 105°C (mA)	ESR 100 kHz 25°C (Ω)	LC 20°C 2 Minutes (μA)	Part Number
63	79	330	13 x 25	14	0.120	784	0.12	207.9	EST337M063AL4(1)
63	79	470	13 x 30	14	0.100	905	0.1	296.1	EST477M063AL8(1)
63	79	560	13 x 35	14	0.083	1050	0.083	352.8	EST567M063AL6(1)
63	79	680	13 x 40	14	0.071	1180	0.071	428.4	EST687M063AL7(1)
63	79	820	16 x 32	14	0.054	1570	0.054	516.6	EST827M063AM2(1)
63	79	1000	16 x 36	14	0.045	1790	0.045	630.0	EST108M063AM3(1)
63	79	1200	16 x 40	14	0.040	2020	0.04	756.0	EST128M063AM4(1)
100	125	2.2	5 x 11	14	10.000	20	10	3.0	EST225M100AC3(1)
100	125	3.3	5 x 11	14	8.500	27	8.5	3.3	EST335M100AC3(1)
100	125	4.7	5 x 11	14	8.000	30	8	4.7	EST475M100AC3(1)
100	125	6.8	5 x 11	14	7.500	45	7.5	6.8	EST685M100AC3(1)
100	125	10	6.3 x 11	14	5.000	55	5	10.0	EST106M100AE3(1)
100	125	15	6.3 x 11	14	5.000	70	5	15.0	EST156M100AE3(1)
100	125	22	8 x 11	14	2.700	85	2.7	22.0	EST226M100AG3(1)
100	125	33	8 x 11	14	2.500	95	2.5	33.0	EST336M100AG3(1)
100	125	47	8 x 15	14	1.800	150	1.8	47.0	EST476M100AG4(1)
100	125	56	8 x 20	14	1.500	200	1.5	56.0	EST566M100AG6(1)
100	125	68	10 x 15	14	1.300	230	1.3	68.0	EST686M100AH2(1)
100	125	82	10 x 20	14	1.200	250	1.2	82.0	EST826M100AH4(1)
100	125	100	10 x 20	14	0.950	330	0.95	100.0	EST107M100AH4(1)
100	125	120	10 x 25	14	0.800	400	0.8	120.0	EST127M100AH5(1)
100	125	150	13 x 20	14	0.900	460	0.9	150.0	EST157M100AL3(1)
100	125	220	13 x 25	14	0.600	640	0.6	220.0	EST227M100AL4(1)
100	125	330	16 x 25	14	0.570	720	0.57	330.0	EST337M100AM7(1)
100	125	470	16 x 32	14	0.550	770	0.55	470.0	EST477M100AM2(1)
100	125	470	18 x 25	14	0.500	840	0.5	470.0	EST477M100AN5(1)
100	125	680	18 x 36	14	0.180	1400	0.18	680.0	EST687M100AN2(1)
100	125	820	18 x 40	14	0.130	1850	0.13	820.0	EST827M100AN3(1)
100	125	1000	18 x 40	14	0.130	1850	0.13	1000.0	EST108M100AN3(1)
VDC	VDC Surge	Rated Capacitance	Case Size	DF	Z	RC	ESR	LC	Part Number

(1) Insert packaging code. See Ordering Options Table for available options.

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