

Overview

The KEMET ESS radial aluminum electrolytic capacitors are designed for applications requiring a low profile miniature solution.

Applications

Typical applications include portable micro computers, disk drives, calculators, and audio equipment.

Benefits

- 1,000 hour operating life
- Operating temperature of up to 105°C
- 7 – 9 mm case height
- Safety vent on the capacitor base



Part Number System

ESS	336	M	004		A	B2	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%	004 = 4 6R3 = 6.3 010 = 10 016 = 16	025 = 25 035 = 35 050 = 50 063 = 63	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 %)	RC 120 Hz 105°C (mA)	LC 20°C 2 minutes (μA)	Part Number
4	5	33	4 x 7	35	30	3.0	ESS336M004AB2(1)
4	5	47	4 x 7	35	35	3.0	ESS476M004AB2(1)
4	5	100	5 x 7	35	55	4.0	ESS107M004AC2(1)
4	5	220	6.3 x 7	35	95	8.8	ESS227M004AE2(1)
6.3	8	22	4 x 7	24	37	3.0	ESS226M6R3AB2(1)
6.3	8	33	5 x 7	24	42	3.0	ESS336M6R3AC2(1)
6.3	8	47	4 x 7	24	46	3.0	ESS476M6R3AB2(1)
6.3	8	47	5 x 7	24	55	3.0	ESS476M6R3AC2(1)
6.3	8	100	5 x 7	24	75	6.3	ESS107M6R3AC2(1)
6.3	8	100	6.3 x 7	24	90	6.3	ESS107M6R3AE2(1)
6.3	8	220	6.3 x 7	24	130	13.9	ESS227M6R3AE2(1)
6.3	8	330	8 x 7	24	140	20.8	ESS337M6R3AG1(1)
10	13	22	4 x 7	20	31	3.0	ESS226M010AB2(1)
10	13	22	5 x 7	20	38	3.0	ESS226M010AC2(1)
10	13	33	4 x 7	20	39	3.3	ESS336M010AB2(1)
10	13	33	5 x 7	20	47	3.3	ESS336M010AC2(1)
10	13	47	4 x 7	20	50	4.7	ESS476M010AB2(1)
10	13	47	5 x 7	20	60	4.7	ESS476M010AC2(1)
10	13	47	6.3 x 7	20	60	4.7	ESS476M010AE2(1)
10	13	100	5 x 7	20	85	10.0	ESS107M010AC2(1)
10	13	100	6.3 x 7	20	100	10.0	ESS107M010AE2(1)
10	13	220	6.3 x 7	20	135	22.0	ESS227M010AE2(1)
10	13	470	8 x 9	20	165	47.0	ESS477M010AG2(1)
16	20	2.2	4 x 7	17	7	3.0	ESS225M016AB2(1)
16	20	3.3	4 x 7	17	13	3.0	ESS335M016AB2(1)
16	20	4.7	4 x 7	17	19	3.0	ESS475M016AB2(1)
16	20	10	4 x 7	17	29	3.0	ESS106M016AB2(1)
16	20	22	4 x 7	17	36	3.5	ESS226M016AB2(1)
16	20	22	5 x 7	17	44	3.5	ESS226M016AC2(1)
16	20	33	4 x 7	17	50	5.3	ESS336M016AB2(1)
16	20	33	5 x 7	17	57	5.3	ESS336M016AC2(1)
16	20	47	5 x 7	17	75	7.5	ESS476M016AC2(1)
16	20	47	6.3 x 7	17	77	7.5	ESS476M016AE2(1)
16	20	68	5 x 7	17	84	10.9	ESS686M016AC2(1)
16	20	100	5 x 7	17	94	16.0	ESS107M016AC2(1)
16	20	100	6.3 x 7	17	110	16.0	ESS107M016AE2(1)
16	20	150	6.3 x 7	17	120	24.0	ESS157M016AE2(1)
16	20	220	8 x 7	17	140	35.2	ESS227M016AG1(1)
16	20	220	8 x 9	17	140	35.2	ESS227M016AG2(1)
16	20	330	8 x 9	17	155	52.8	ESS337M016AG2(1)
16	20	470	8 x 9	17	165	75.2	ESS477M016AG2(1)
25	30	4.7	4 x 7	15	24	3.0	ESS475M025AB2(1)
25	30	10	4 x 7	15	33	3.0	ESS106M025AB2(1)
25	30	10	5 x 7	15	35	3.0	ESS106M025AC2(1)
25	30	10	6.3 x 7	15	35	3.0	ESS106M025AE2(1)
25	30	22	4 x 7	15	43	5.5	ESS226M025AB2(1)
25	30	22	5 x 7	15	51	5.5	ESS226M025AC2(1)
25	30	22	6.3 x 7	15	53	5.5	ESS226M025AE2(1)
25	30	33	5 x 7	15	55	8.3	ESS336M025AC2(1)
25	30	33	6.3 x 7	15	65	8.3	ESS336M025AE2(1)
25	30	47	5 x 7	15	67	11.8	ESS476M025AC2(1)
25	30	47	6.3 x 7	15	79	11.8	ESS476M025AE2(1)
25	30	100	6.3 x 7	15	120	25.0	ESS107M025AE2(1)
25	30	100	8 x 7	15	120	25.0	ESS107M025AG1(1)
35	44	4.7	4 x 7	12	24	3.0	ESS475M035AB2(1)
35	44	4.7	5 x 7	12	24	3.0	ESS475M035AC2(1)
35	44	10	4 x 7	12	34	3.5	ESS106M035AB2(1)
35	44	10	5 x 7	12	36	3.5	ESS106M035AC2(1)
VDC	VDC Surge	Rated Capacitance	Case Size	DF	RC	LC	Part Number

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

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 %)	RC 120 Hz 105°C (mA)	LC 20°C 2 minutes (μA)	Part Number
35	44	22	5 x 7	12	48	7.7	ESS226M035AC2(1)
35	44	22	6.3 x 7	12	57	7.7	ESS226M035AE2(1)
35	44	33	6.3 x 7	12	70	11.6	ESS336M035AE2(1)
35	44	47	6.3 x 7	12	81	16.5	ESS476M035AE2(1)
50	63	1	4 x 7	10	10	3.0	ESS105M050AB2(1)
50	63	2.2	4 x 7	10	19	3.0	ESS225M050AB2(1)
50	63	3.3	4 x 7	10	24	3.0	ESS335M050AB2(1)
50	63	4.7	4 x 7	10	29	3.0	ESS475M050AB2(1)
50	63	4.7	5 x 7	10	31	3.0	ESS475M050AC2(1)
50	63	10	4 x 7	10	37	5.0	ESS106M050AB2(1)
50	63	10	5 x 7	10	45	5.0	ESS106M050AC2(1)
50	63	10	6.3 x 7	10	45	5.0	ESS106M050AE2(1)
50	63	22	6.3 x 7	10	65	11.0	ESS226M050AE2(1)
63	79	1	4 x 7	8	13	3.0	ESS105M063AB2(1)
63	79	2.2	4 x 7	8	21	3.0	ESS225M063AB2(1)
63	79	3.3	4 x 7	8	26	3.0	ESS335M063AB2(1)
63	79	4.7	4 x 7	8	26	3.0	ESS475M063AB2(1)
63	79	4.7	6.3 x 7	8	33	3.0	ESS475M063AE2(1)
63	79	10	5 x 7	8	42	6.3	ESS106M063AC2(1)
63	79	10	6.3 x 7	8	50	6.3	ESS106M063AE2(1)
VDC	VDC Surge	Rated Capacitance	Case Size	DF	RC	LC	Part Number

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