

Overview

The KEMET ESG radial aluminum electrolytic capacitors are designed for long life (5,000 hours) and high reliability applications.

Applications

Typical applications include electronic ballast, power supplies, and long-life equipment.

Benefits

- Suited for long life, high reliability applications
- Operating temperature of up to 105°C
- 3,000 – 5,000 hour operating life
- High ripple current
- Safety vent on the capacitor base



Part Number System

ESG	226	M	160		A	H4	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%	160 = 160 200 = 200 250 = 250 350 = 350	400 = 400 450 = 450 500 = 500	A = Standard	See Dimension Table	See Ordering Options Table

Table 1 – Ratings & Part Number Reference

Rated Voltage	Surge Voltage	Rated Capacitance	Case Size	DF	RC	LC	Part Number
(VDC)	(VDC)	120 Hz 20°C (μF)	D x L (mm)	120 Hz 20°C (tanδ %)	120 Hz 105°C (mA)	20°C 2 minutes (μA)	() Represents Part Number Options
160	200	22	10 x 20	15	160	222.0	ESG226M160AH4(1)
160	200	33	10 x 20	15	210	327.0	ESG336M160AH4(1)
160	200	47	13 x 20	15	260	461.0	ESG476M160AL3(1)
160	200	68	13 x 25	15	360	663.0	ESG686M160AL4(1)
160	200	68	16 x 20	15	430	663.0	ESG686M160AM5(1)
160	200	100	16 x 25	15	475	970.0	ESG107M160AM7(1)
160	200	100	18 x 20	15	465	970.0	ESG107M160AN4(1)
160	200	150	16 x 32	15	650	1450.0	ESG157M160AM2(1)
160	200	150	18 x 25	15	625	1450.0	ESG157M160AN5(1)
160	200	220	16 x 32	15	750	2122.0	ESG227M160AM2(1)
160	200	220	18 x 25	15	725	2122.0	ESG227M160AN5(1)
160	200	330	18 x 32	15	960	3178.0	ESG337M160AN1(1)
200	250	10	*10 x 16	15	80	274.0	ESG106M200AH8(1)
200	250	15	*10 x 16	15	100	274.0	ESG156M200AH8(1)
200	250	22	10 x 20	15	160	274.0	ESG226M200AH4(1)
200	250	33	*10 x 20	15	160	406.0	ESG336M200AH4(1)
200	250	33	13 x 20	15	210	406.0	ESG336M200AL3(1)
200	250	47	13 x 20	15	260	574.0	ESG476M200AL3(1)
200	250	68	13 x 25	15	360	826.0	ESG686M200AL4(1)
200	250	68	16 x 20	15	430	826.0	ESG686M200AM5(1)
200	250	100	16 x 25	15	475	1210.0	ESG107M200AM7(1)
200	250	100	18 x 20	15	465	1210.0	ESG107M200AN4(1)
200	250	150	18 x 25	15	650	1810.0	ESG157M200AN5(1)
200	250	220	18 x 32	15	780	2650.0	ESG227M200AN1(1)
250	300	10	*10 x 16	15	85	160.0	ESG106M250AH8(1)
250	300	10	*10 x 25	15	145	160.0	ESG106M250AH5(1)
250	300	10	10 x 20	15	100	160.0	ESG106M250AH4(1)
250	300	22	13 x 20	15	160	340.0	ESG226M250AL3(1)
250	300	33	13 x 20	15	210	505.0	ESG336M250AL3(1)
250	300	47	13 x 25	15	270	715.0	ESG476M250AL4(1)
250	300	47	16 x 20	15	275	715.0	ESG476M250AM5(1)
250	300	68	16 x 25	15	380	1030.0	ESG686M250AM7(1)
250	300	68	18 x 20	15	375	1030.0	ESG686M250AN4(1)
250	300	100	16 x 32	15	520	1510.0	ESG107M250AM2(1)
250	300	100	18 x 25	15	500	1510.0	ESG107M250AN5(1)
250	300	150	18 x 32	15	650	2260.0	ESG157M250AN1(1)
250	300	220	18 x 40	15	820	3310.0	ESG227M250AN3(1)
350	400	10	10 x 20	20	100	220.0	ESG106M350AH4(1)
350	400	22	13 x 20	20	160	472.0	ESG226M350AL3(1)
350	400	33	13 x 25	20	230	703.0	ESG336M350AL4(1)
350	400	33	16 x 20	20	250	703.0	ESG336M350AM5(1)
350	400	47	16 x 25	20	300	997.0	ESG476M350AM7(1)
350	400	47	18 x 20	20	315	997.0	ESG476M350AN4(1)
350	400	68	16 x 32	20	400	1438.0	ESG686M350AM2(1)
350	400	68	18 x 25	20	380	1438.0	ESG686M350AN5(1)
350	400	100	18 x 32	20	530	2110.0	ESG107M350AN1(1)
400	450	4.7	*10 x 16	24	60	123.0	ESG475M400AH8(1)
400	450	6.8	*10 x 16	24	72	123.0	ESG685M400AH8(1)
400	450	10	*10 x 16	24	85	123.0	ESG106M400AH8(1)
400	450	10	10 x 20	24	100	250.0	ESG106M400AH4(1)
400	450	22	13 x 20	24	145	538.0	ESG226M400AL3(1)
400	450	22	13 x 25	24	170	538.0	ESG226M400AL4(1)
400	450	22	16 x 20	24	200	538.0	ESG226M400AM5(1)
400	450	33	16 x 25	24	230	802.0	ESG336M400AM7(1)
400	450	33	18 x 20	24	250	802.0	ESG336M400AN4(1)
(VDC)	(VDC)	120 Hz 20°C (μF)	D x L (mm)	120 Hz 20°C (tanδ %)	120 Hz 105°C (mA)	20°C 2 minutes (μA)	() Represents Part Number Options
Rated Voltage	Surge Voltage	Rated Capacitance	Case Size	DF	RC	LC	Part Number

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

* Dimension is down size, Endurance is 3,000 hours.

Table 1 – Ratings & Part Number Reference cont.

Rated Voltage	Surge Voltage	Rated Capacitance	Case Size	DF	RC	LC	Part Number
(VDC)	(VDC)	120 Hz 20°C (μF)	D x L (mm)	120 Hz 20°C (tanδ %)	120 Hz 105°C (mA)	20°C 2 minutes (μA)	() Represents Part Number Options
400	450	47	16 x 25	24	255	1138.0	ESG476M400AM7(1)
400	450	47	16 x 32	24	300	1138.0	ESG476M400AM2(1)
400	450	47	18 x 25	24	325	1138.0	ESG476M400AN5(1)
400	450	68	16 x 30	24	340	1642.0	ESG686M400AM9(1)
400	450	68	16 x 32	24	350	1642.0	ESG686M400AM2(1)
400	450	68	18 x 36	24	420	1642.0	ESG686M400AN2(1)
400	450	100	18 x 32	24	465	2410.0	ESG107M400AN1(1)
400	450	100	18 x 40	24	545	2410.0	ESG107M400AN3(1)
400	450	150	18 x 40	24	525	3610.0	ESG157M400AN3(1)
400	450	150	22 x 40	24	650	3610.0	ESG157M400AQ4(1)
450	500	3.3	10 x 20	24	60	99.0	ESG335M450AH4(1)
450	500	4.7	13 x 20	24	80	137.0	ESG475M450AL3(1)
450	500	6.8	*10 x 20	24	90	194.0	ESG685M450AH4(1)
450	500	10	13 x 20	24	110	280.0	ESG106M450AL3(1)
450	500	10	13 x 25	24	110	280.0	ESG106M450AL4(1)
450	500	22	13 x 20	24	145	604.0	ESG226M450AL3(1)
450	500	22	16 x 25	24	190	604.0	ESG226M450AM7(1)
450	500	22	18 x 20	24	200	604.0	ESG226M450AN4(1)
450	500	33	16 x 25	24	235	901.0	ESG336M450AM7(1)
450	500	33	16 x 32	24	275	901.0	ESG336M450AM2(1)
450	500	33	18 x 25	24	280	901.0	ESG336M450AN5(1)
450	500	47	16 x 26	24	270	1,279.0	ESG476M450AM1(1)
450	500	47	18 x 32	24	340	1,279.0	ESG476M450AN1(1)
450	500	68	18 x 25	24	335	1,846.0	ESG686M450AN5(1)
450	500	68	18 x 32	24	395	1,846.0	ESG686M450AN1(1)
450	500	68	18 x 40	24	460	1,846.0	ESG686M450AN3(1)
450	500	100	22 x 40	24	580	2,710.0	ESG107M450AQ4(1)
500	550	4.7	10 x 20	24	70	151.0	ESG475M500AH4(1)
500	550	6.8	13 x 20	24	100	214.0	ESG685M500AL3(1)
500	550	10	13 x 25	24	130	310.0	ESG106M500AL4(1)
500	550	22	16 x 25	24	225	670.0	ESG226M500AM7(1)
500	550	22	18 x 20	24	220	670.0	ESG226M500AN4(1)
500	550	33	16 x 32	24	305	1,000.0	ESG336M500AM2(1)
500	550	33	18 x 25	24	295	1,000.0	ESG336M500AN5(1)
500	550	47	16 x 36	24	430	1,420.0	ESG476M500AM3(1)
500	550	47	18 x 32	24	435	1,420.0	ESG476M500AN1(1)
500	550	68	18 x 32	24	530	2,050.0	ESG686M500AN1(1)
500	550	68	18 x 36	24	555	2,050.0	ESG686M500AN2(1)
500	550	82	18 x 40	24	640	2,470.0	ESG826M500AN3(1)
500	550	82	22 x 35	24	675	2,470.0	ESG826M500AQ3(1)
500	550	100	22 x 35	24	746	3,010.0	ESG107M500AQ3(1)
500	550	120	22 x 40	24	865	3,610.0	ESG127M500AQ4(1)
500	550	150	22 x 45	24	1020	4,510.0	ESG157M500AQ5(1)
(VDC)	(VDC)	120 Hz 20°C (μF)	D x L (mm)	120 Hz 20°C (tanδ %)	120 Hz 105°C (mA)	20°C 2 minutes (μA)	() Represents Part Number Options
Rated Voltage	Surge Voltage	Rated Capacitance	Case Size	DF	RC	LC	Part Number

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

* Dimension is down size, Endurance is 3,000 hours.