ESG, +105°C



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

(VDC) (VDC) 160 200 160 200 160 200 160 200 160 200 160 200 160 200 160 200 160 200 160 200 160 200 200 250 200 250 200 250 200 250 200 250 200 250 200 250 200 250 200 250 200 250 200 250 250 300 250 300 250 300 250 300 250 300 250 300 250 300 250 300 250 300 250 300 250 <th>22 33 47 68 68 100 100 150 150 220 220 230 330 10 15 22 33 33 47 68 68 68 100 100 150</th> <th>D x L (mm) 10 x 20 10 x 20 13 x 20 13 x 25 16 x 20 16 x 25 18 x 20 16 x 32 18 x 25 16 x 32 18 x 25 16 x 32 18 x 25 18 x 32 *10 x 16 *10 x 16 *10 x 20 *10 x 20 13 x 25 16 x 20 16 x 25</th> <th>120 Hz 20°C (tanő %) 15 15 15 15 15 15 15 15 15 15 15 15 15</th> <th>120 Hz 105°C (mA) 160 210 260 360 430 475 465 650 625 750 725 960 80 100 160 210 260 360</th> <th>20°C 2 minutes (µA) 222.0 327.0 461.0 663.0 663.0 970.0 1450.0 1450.0 2122.0 2122.0 3178.0 274.0 274.0 406.0 406.0 574.0 826.0</th> <th>() Represents Part Number Options ESG226M160AH4(1) ESG336M160AH4(1) ESG476M160AL3(1) ESG686M160AL4(1) ESG686M160AM5(1) ESG107M160AM7(1) ESG107M160AM2(1) ESG157M160AM2(1) ESG157M160AM2(1) ESG227M160AM2(1) ESG227M160AM2(1) ESG227M160AM1(1) ESG227M160AM1(1) ESG337M160AN1(1) ESG337M160AN1(1) ESG336M200AH8(1) ESG226M200AH4(1) ESG336M200AH3(1) ESG336M200AL3(1)</th>	22 33 47 68 68 100 100 150 150 220 220 230 330 10 15 22 33 33 47 68 68 68 100 100 150	D x L (mm) 10 x 20 10 x 20 13 x 20 13 x 25 16 x 20 16 x 25 18 x 20 16 x 32 18 x 25 16 x 32 18 x 25 16 x 32 18 x 25 18 x 32 *10 x 16 *10 x 16 *10 x 20 *10 x 20 13 x 25 16 x 20 16 x 25	120 Hz 20°C (tanő %) 15 15 15 15 15 15 15 15 15 15 15 15 15	120 Hz 105°C (mA) 160 210 260 360 430 475 465 650 625 750 725 960 80 100 160 210 260 360	20°C 2 minutes (µA) 222.0 327.0 461.0 663.0 663.0 970.0 1450.0 1450.0 2122.0 2122.0 3178.0 274.0 274.0 406.0 406.0 574.0 826.0	() Represents Part Number Options ESG226M160AH4(1) ESG336M160AH4(1) ESG476M160AL3(1) ESG686M160AL4(1) ESG686M160AM5(1) ESG107M160AM7(1) ESG107M160AM2(1) ESG157M160AM2(1) ESG157M160AM2(1) ESG227M160AM2(1) ESG227M160AM2(1) ESG227M160AM1(1) ESG227M160AM1(1) ESG337M160AN1(1) ESG337M160AN1(1) ESG336M200AH8(1) ESG226M200AH4(1) ESG336M200AH3(1) ESG336M200AL3(1)
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200 250 250 300 250 300 250 300 250 300 250 300 250 300 250 300 250 300 250 300 250 300 250 300 250 300 250 300 250 300 250 300 350 400 350 400		18 x 25	15	650	1810.0	ESG157M200AN5(1)
250 300 250 300 250 300 250 300 250 300 250 300 250 300 250 300 250 300 250 300 250 300 250 300 250 300 250 300 250 400 350 400	220	18 x 32	15	780	2650.0	ESG227M200AN1(1)
250 300 250 300 250 300 250 300 250 300 250 300 250 300 250 300 250 300 250 300 250 300 250 300 250 300 250 300 250 400 350 400		*10 x 16	15	85	160.0	ESG106M250AH8(1)
250 300 250 300 250 300 250 300 250 300 250 300 250 300 250 300 250 300 250 300 250 300 250 300 250 300 250 400 350 400	i i	*10 x 10	15	145	160.0	ESG106M250AH5(1)
250 300 250 300 250 300 250 300 250 300 250 300 250 300 250 300 250 300 250 300 250 300 250 400 350 400 350 400	i i	10 x 20	15	100	160.0	ESG106M250AH4(1)
250 300 250 300 250 300 250 300 250 300 250 300 250 300 250 300 250 300 250 300 250 400 350 400 350 400	i i	13 x 20	15	160	340.0	ESG226M250AL3(1)
250 300 250 300 250 300 250 300 250 300 250 300 250 300 250 300 250 300 350 400 350 400	i i	13 x 20	15	210	505.0	ESG336M250AL3(1)
250 300 250 300 250 300 250 300 250 300 250 300 250 300 250 300 350 400 350 400	i i	13 x 25	15	270	715.0	ESG476M250AL4(1)
250 300 250 300 250 300 250 300 250 300 250 300 250 300 350 400 350 400	i i	16 x 20	15	275	715.0	ESG476M250AL4(1)
250 300 250 300 250 300 250 300 250 300 250 300 350 400 350 400	i i		15	•	1030.0	1
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250 300 250 300 250 300 350 400 350 400 350 400		18 x 20	15		1030.0 1510.0	ESG686M250AN4(1)
250 300 250 300 350 400 350 400 350 400	· · · · · · · · · · · · · · · · · · ·	16 x 32		520	1	ESG107M250AM2(1)
250 300 350 400 350 400 350 400		18 x 25	15	500	1510.0	ESG107M250AN5(1)
350 400 350 400 350 400		18 x 32	15	650	2260.0	ESG157M250AN1(1)
350 400 350 400		18 x 40	15	820	3310.0	ESG227M250AN3(1)
350 400		10 x 20	20	100	220.0	ESG106M350AH4(1)
		13 x 20	20	160	472.0	ESG226M350AL3(1)
750 1 700		13 x 25	20	230	703.0	ESG336M350AL4(1)
		16 x 20	20	250	703.0	ESG336M350AM5(1)
350 400		16 x 25	20	300	997.0	ESG476M350AM7(1)
350 400		18 x 20	20	315	997.0	ESG476M350AN4(1)
350 400		16 x 32	20	400	1438.0	ESG686M350AM2(1)
350 400		18 x 25	20	380	1438.0	ESG686M350AN5(1)
350 400		18 x 32	20	530	2110.0	ESG107M350AN1(1)
400 450		*10 x 16	24	60	123.0	ESG475M400AH8(1)
400 450		*10 x 16	24	72	123.0	ESG685M400AH8(1)
400 450		*10 x 16	24	85	123.0	ESG106M400AH8(1)
400 450		10 x 20	24	100	250.0	ESG106M400AH4(1)
400 450		13 x 20	24	145	538.0	ESG226M400AL3(1)
400 450		13 x 25	24	170	538.0	ESG226M400AL4(1)
400 450		16 x 20	24	200	538.0	ESG226M400AM5(1)
400 450		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 (μΑ)	() Represents Part Number Options
Rated Voltage Surge Vo	oltage 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 (μΑ)	() 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	` '
450	500	68		24	395	1,846.0	ESG686M450AN5(1)
450 450	500	68	18 x 32 18 x 40	24	460		ESG686M450AN1(1)
				24		1,846.0	ESG686M450AN3(1)
450	500	100	22 x 40		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 (μΑ)	() 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.