Aluminum Electrolytic Capacitors (Radial Lead Type)

Series: **M**
Type: **A (Radial Leads)**
Style: **04/JIS C 5141**

Standard

■ Features
- Lifetime: 85 ˚C 2000 h
- Smaller than series SU.

■ Recommended Applications
- AV (TV, Video, Audio), Office, Home appliance

■ Specifications

Operating Temp. Range	–40 to +85 ˚C	–25 to +85 ˚C
Rated W.V. Range	6.3 to 100 V. DC	160 to 450 V. DC
Nominal Cap. Range	0.1 to 22000 µF	1.0 to 470 µF
Capacitance Tolerance	±20 % (120 Hz/+20 ˚C)	
DC Leakage Current	I ≦ 0.03 CV or 4 (µA) after 1 minutes I ≦ 0.01 CV or 3 (µA) after 2 minutes (Whichever, greater)	I ≦ 0.06 CV+10 (µA) after 2 minutes

Dissipation Factor

W.V. (V)	6.3	10	16	25	35	50	63	100	160	200	250	350	400	450
D.F.	0.28	0.24	0.20	0.16	0.14	0.12	0.11	0.10	0.16	0.18	0.18	0.20	0.20	0.20

(max.)

Add 0.02 per 1000 µF for products of 1000 µF or more. (120 Hz/+20 ˚C)

Characteristics at Low Temperature

W.V. (V)	6.3	10	16	25	35	50	63	100	160	200	250	350	400	450
Z (–25 ˚C)/ Z (+20 ˚C)	5	4	3	2	2	2	2	2	2	2	3	5	6	6
Z (–40 ˚C)/ Z (+20 ˚C)	12	10	8	5	4	3	3	3	–	–	–	–	–	–

1 Add 0.5 per 1000 µF for products of 1000 µF or more at –25 ˚C.
2 Add 1.0 per 1000 µF for products of 1000 µF or more at –40 ˚C.
(Impedance ratio at 120 Hz)

Endurance

After applying rated working voltage for 2000 hours at +85 ˚C and then being stabilized at +20 ˚C, capacitor shall meet the following limits

Capacitance change	±20 % of initial measured value
D.F.	≦ 150 % of initial specified value
DC leakage current	≦ Initial specified value

Shelf Life

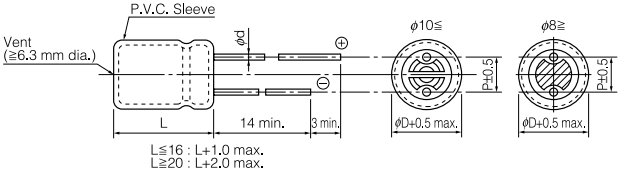
After storage for 1000 hours at +85 ˚C with no voltage applied and then being stabilized at +20 ˚C, capacitor shall meet the limits specified in “Endurance”.

■ Explanation of Part Numbers

1	2	3	4	5	6	7	8	9	10	11
E	C	A			M					

Product Code・Style | R.W. Voltage Code | Series Code | N.Capacitance Code | Option

■ Dimensions in mm (not to scale)



Body Dia. φD	5	6.3	8	10	12.5	16	18
Lead Dia. φd	0.5	0.5	0.6	0.6	0.6	0.8	0.8
Lead space P	2	2.5	3.5	5	5	7.5	7.5

■ Case size/Ripple current

φD×L (mm)/(mA) r.m.s. (120 Hz/+85 ˚C)

Cap. (μF) \ W.V. (V.DC)	6.3 (0J)		10 (1A)		16 (1C)		25 (1E)		35 (1V)		50 (1H)		63 (1J)		100 (2A)	
0.1 (0R1)											5 ×11	1.3				
0.22 (R22)											5 ×11	2.9				
0.33 (R33)											5 ×11	4.4				
0.47 (R47)											5 ×11	5			5 ×11	10
1.0 (010)											5 ×11	10			5 ×11	20
2.2 (2R2)											5 ×11	20			5 ×11	30
3.3 (3R3)											5 ×11	35			5 ×11	40
4.7 (4R7)											5 ×11	45			5 ×11	50
10 (100)					5 ×11	30					5 ×11	65	5 ×11	70	✻ 5 ×11	70
22 (220)					5 ×11	75					5 ×11	100	✻5 ×11	105	✻ 6.3x11.2	115
33 (330)					5 ×11	110					✻ 5 ×11	110	6.3x11.2	130	✻ 8 ×11.5	145
47 (470)					5 ×11	130			✻ 5 ×11	130	6.3x11.2	130	✻ 6.3x11.2	160	✻ 8 ×11.5	180
100 (101)					✻ 5 ×11	180	6.3x11.2	180	✻ 6.3x11.2	210	8 ×11.5	250	✻8 ×11.5	270	10 ×16	350
220 (221)	✻ 5 ×11	240			✻ 6.3x11.2	280			✻ 8 ×11.5	350	10 ×12.5	400	10 ×16	450	✻12.5x20	550
330 (331)			✻ 6.3x11.2	330			✻ 8 ×11.5	390	10 ×12.5	440	10 ×16	500	10 ×20	550	✻12.5x25	700
470 (471)	✻ 6.3x11.2	380			✻ 8 ×11.5	440	10 ×12.5	480	10 ×16	550	10 ×20	650	12.5x20	750	16 ×25	900
1000 (102)	✻ 8 ×11.5	580	10 ×12.5	630	10 ×16	680	10 ×20	850	12.5x20	900	✻12.5x25	1050	16 ×25	1100	18 ×35.5	1300
2200 (222)	10 ×16	890	10 ×20	920	12.5x20	1000	✻ 12.5x25	1200	16 ×25	1250	16 ×31.5	1300	18 ×35.5	1400		
3300 (332)	10 ×20	1020	12.5x20	1090	✻12.5x25	1200	16 ×25	1300	16 ×31.5	1400	18 ×35.5	1500				
4700 (472)	✻12.5x20	1170	✻12.5x25	1200	16 ×25	1360	16 ×31.5	1500	18 ×35.5	1600						
6800 (682)	✻12.5x25	1270	16 ×25	1400	16 ×31.5	1600	18 ×35.5	1750								
10000 (103)	16 ×25	1450	16 ×31.5	1600	18 ×35.5	1800										
15000 (153)	16 ×31.5	1700	18 ×35.5	1850											Case size	Ripple current
22000 (223)	18 ×35.5	1900														

Cap. (μF) \ W.V. (V.DC)	160 (2C)		200 (2D)		250 (2E)		350 (2V)		400 (2G)		450 (2W)	
1.0	6.3x11.2	36	6.3x11.2	34	6.3x11.2	34	6.3x11.2	32	✻ 6.3x11.2	32	✻ 8 ×11.5	37
2.2	6.3x11.2	53	6.3x11.2	50	✻ 6.3x11.2	50	✻ 8 ×11.5	55	✻ 8 ×11.5	50	10 ×12.5	44
3.3	6.3x11.2	66	✻ 6.3x11.2	62	✻ 8 ×11.5	72	✻ 8 ×11.5	60	10 ×12.5	54	10 ×16	60
4.7	✻ 6.3x11.2	78	✻ 8 ×11.5	86	✻ 8 ×11.5	86	10 ×12.5	65	10 ×16	72	10 ×20	79
10	10 ×12.5	105	10 ×12.5	100	10 ×16	110	10 ×20	115	10 ×20	115	12.5x20	130
22	10 ×16	175	10 ×20	180	10 ×20	180	12.5x20	195	✻12.5x25	215	16 ×25	210
33	10 ×20	235	10 ×20	220	12.5x20	250	16 ×25	300	16 ×25	275	16 ×31.5	285
47	12.5x20	320	12.5x20	300	✻12.5x25	330	16 ×25	325	16 ×31.5	350		
100	✻12.5x25	515	16 ×25	475	16 ×31.5	530	18 ×31.5	535	18 ×40	600		
220	16 ×31.5	830	18 ×31.5	835	18 ×40	930						
330	18 ×31.5	1090	18 ×40	1140							Case size	Ripple current
470	18 ×40	1440										

( ) shows W.V. and capacitance code.

✻Lead spacing is narrower than series SU because of miniaturization.

■ Standard Products

W.V.	Cap. (±20%)	Case size		Specification		Lead Length				Part No.	Min. Packaging Q'ty	
		Dia.	Length	Ripple current (120Hz) (+85˚C)	D.F.	Lead Dia.	Lead Space				Straight Leads	Taping
							Straight	Taping *B	Taping *i			
(V)	(μF)	(mm)	(mm)	(mA)		(mm)	(mm)	(mm)	(mm)		(pcs)	(pcs)
6.3	220	5	11	240	0.28	0.5	2.0	5.0	2.5	ECA0JM221( )	200	2000
	470	6.3	11.2	380	0.28	0.5	2.5	5.0	2.5	ECA0JM471( )	200	2000
	1000	8	11.5	580	0.28	0.6	3.5	5.0		ECA0JM102( )	200	1000
	2200	10	16	890	0.30	0.6	5.0	5.0		ECA0JM222( )	200	500
	3300	10	20	1020	0.32	0.6	5.0	5.0		ECA0JM332( )	200	500
	4700	12.5	20	1170	0.34	0.6	5.0	5.0		ECA0JM472( )	200	500
	6800	12.5	25	1270	0.38	0.6	5.0	5.0		ECA0JM682( )	200	500
	10000	16	25	1450	0.46	0.8	7.5	7.5		ECA0JM103( )	100	250
	15000	16	31.5	1700	0.56	0.8	7.5			ECA0JM153	100	
	22000	18	35.5	1900	0.70	0.8	7.5			ECA0JM223	50	
10	330	6.3	11.2	330	0.24	0.5	2.5	5.0	2.5	ECA1AM331( )	200	2000
	1000	10	12.5	630	0.24	0.6	5.0	5.0		ECA1AM102( )	200	500
	2200	10	20	920	0.26	0.6	5.0	5.0		ECA1AM222( )	200	500
	3300	12.5	20	1090	0.28	0.6	5.0	5.0		ECA1AM332( )	200	500
	4700	12.5	25	1200	0.30	0.6	5.0	5.0		ECA1AM472( )	200	500
	6800	16	25	1400	0.34	0.8	7.5	7.5		ECA1AM682( )	100	250
	10000	16	31.5	1600	0.42	0.8	7.5			ECA1AM103	100	
	15000	18	35.5	1850	0.52	0.8	7.5			ECA1AM153	50	
16	10	5	11	30	0.20	0.5	2.0	5.0	2.5	ECA1CM100( )	200	2000
	22	5	11	75	0.20	0.5	2.0	5.0	2.5	ECA1CM220( )	200	2000
	33	5	11	110	0.20	0.5	2.0	5.0	2.5	ECA1CM330( )	200	2000
	47	5	11	130	0.20	0.5	2.0	5.0	2.5	ECA1CM470( )	200	2000
	100	5	11	180	0.20	0.5	2.0	5.0	2.5	ECA1CM101( )	200	2000
	220	6.3	11.2	280	0.20	0.5	2.5	5.0	2.5	ECA1CM221( )	200	2000
	470	8	11.5	440	0.20	0.6	3.5	5.0		ECA1CM471( )	200	1000
	1000	10	16	680	0.20	0.6	5.0	5.0		ECA1CM102( )	200	500
	2200	12.5	20	1000	0.22	0.6	5.0	5.0		ECA1CM222( )	200	500
	3300	12.5	25	1200	0.24	0.6	5.0	5.0		ECA1CM332( )	200	500
	4700	16	25	1360	0.26	0.8	7.5	7.5		ECA1CM472( )	100	250
	6800	16	31.5	1600	0.30	0.8	7.5			ECA1CM682	100	
	10000	18	35.5	1800	0.38	0.8	7.5			ECA1CM103	50	
25	100	6.3	11.2	180	0.16	0.5	2.5	5.0	2.5	ECA1EM101( )	200	2000
	330	8	11.5	390	0.16	0.6	3.5	5.0		ECA1EM331( )	200	1000
	470	10	12.5	480	0.16	0.6	5.0	5.0		ECA1EM471( )	200	500
	1000	10	20	850	0.16	0.6	5.0	5.0		ECA1EM102( )	200	500
	2200	12.5	25	1200	0.18	0.6	5.0	5.0		ECA1EM222( )	200	500
	3300	16	25	1300	0.20	0.8	7.5	7.5		ECA1EM332( )	100	250
	4700	16	31.5	1500	0.22	0.8	7.5			ECA1EM472	100	
	6800	18	35.5	1750	0.26	0.8	7.5			ECA1EM682	50	
35	47	5	11	130	0.14	0.5	2.0	5.0	2.5	ECA1VM470( )	200	2000
	100	6.3	11.2	210	0.14	0.5	2.5	5.0	2.5	ECA1VM101( )	200	2000
	220	8	11.5	350	0.14	0.6	3.5	5.0		ECA1VM221( )	200	1000

When requesting taped product, please put the letter "B" or "i" between the "( )". Lead wire pitch B=5mm, 7.5mm, i=2.5mm.
The taping dimentions are explained on p.25 of our Catalog. Please use it as a reference guide.
High temperature Load Life test : 85˚C 2000h

■ Standard Products

W.V.	Cap. (±20%)	Case size		Specification		Lead Length				Part No.	Min. Packaging Q'ty	
		Dia.	Length	Ripple current (120Hz) (+85˚C)	D.F.	Lead Dia.	Lead Space				Straight Leads	Taping
							Straight	Taping *B	Taping *i			
(V)	(μF)	(mm)	(mm)	(mA)		(mm)	(mm)	(mm)	(mm)		(pcs)	(pcs)
35	330	10	12.5	440	0.14	0.6	5.0	5.0		ECA1VM331( )	200	500
	470	10	16	550	0.14	0.6	5.0	5.0		ECA1VM471( )	200	500
	1000	12.5	20	900	0.14	0.6	5.0	5.0		ECA1VM102( )	200	500
	2200	16	25	1250	0.16	0.8	7.5	7.5		ECA1VM222( )	100	250
	3300	16	31.5	1400	0.18	0.8	7.5			ECA1VM332	100	
	4700	18	35.5	1600	0.20	0.8	7.5			ECA1VM472	50	
50	0.10	5	11	1.3	0.12	0.5	2.0	5.0	2.5	ECA1HM0R1( )	200	2000
	0.22	5	11	2.9	0.12	0.5	2.0	5.0	2.5	ECA1HMR22( )	200	2000
	0.33	5	11	4.4	0.12	0.5	2.0	5.0	2.5	ECA1HMR33( )	200	2000
	0.47	5	11	5	0.12	0.5	2.0	5.0	2.5	ECA1HMR47( )	200	2000
	1	5	11	10	0.12	0.5	2.0	5.0	2.5	ECA1HM010( )	200	2000
	2.2	5	11	20	0.12	0.5	2.0	5.0	2.5	ECA1HM2R2( )	200	2000
	3.3	5	11	35	0.12	0.5	2.0	5.0	2.5	ECA1HM3R3( )	200	2000
	4.7	5	11	45	0.12	0.5	2.0	5.0	2.5	ECA1HM4R7( )	200	2000
	10	5	11	65	0.12	0.5	2.0	5.0	2.5	ECA1HM100( )	200	2000
	22	5	11	100	0.12	0.5	2.0	5.0	2.5	ECA1HM220( )	200	2000
	33	5	11	110	0.12	0.5	2.0	5.0	2.5	ECA1HM330( )	200	2000
	47	6.3	11.2	130	0.12	0.5	2.5	5.0	2.5	ECA1HM470( )	200	2000
	100	8	11.5	250	0.12	0.6	3.5	5.0		ECA1HM101( )	200	1000
	220	10	12.5	400	0.12	0.6	5.0	5.0		ECA1HM221( )	200	500
	330	10	16	500	0.12	0.6	5.0	5.0		ECA1HM331( )	200	500
	470	10	20	650	0.12	0.6	5.0	5.0		ECA1HM471( )	200	500
	1000	12.5	25	1050	0.12	0.6	5.0	5.0		ECA1HM102( )	200	500
	2200	16	31.5	1250	0.14	0.8	7.5			ECA1HM222	100	
	3300	18	35.5	1300	0.16	0.8	7.5			ECA1HM332	50	
63	10	5	11	70	0.11	0.5	2.0	5.0	2.5	ECA1JM100( )	200	2000
	22	5	11	105	0.11	0.5	2.0	5.0	2.5	ECA1JM220( )	200	2000
	33	6.3	11.2	130	0.11	0.5	2.5	5.0	2.5	ECA1JM330( )	200	2000
	47	6.3	11.2	160	0.11	0.5	2.5	5.0	2.5	ECA1JM470( )	200	2000
	100	8	11.5	270	0.11	0.6	3.5	5.0		ECA1JM101( )	200	1000
	220	10	16	450	0.11	0.6	5.0	5.0		ECA1JM221( )	200	500
	330	10	20	550	0.11	0.6	5.0	5.0		ECA1JM331( )	200	500
	470	12.5	20	750	0.11	0.6	5.0	5.0		ECA1JM471( )	200	500
	1000	16	25	1100	0.11	0.8	7.5	7.5		ECA1JM102( )	100	250
	2200	18	35.5	1400	0.13	0.8	7.5			ECA1JM222	50	
100	0.47	5	11	10	0.10	0.5	2.0	5.0	2.5	ECA2AMR47( )	200	2000
	1.0	5	11	20	0.10	0.5	2.0	5.0	2.5	ECA2AM010( )	200	2000
	2.2	5	11	30	0.10	0.5	2.0	5.0	2.5	ECA2AM2R2( )	200	2000
	3.3	5	11	40	0.10	0.5	2.0	5.0	2.5	ECA2AM3R3( )	200	2000
	4.7	5	11	50	0.10	0.5	2.0	5.0	2.5	ECA2AM4R7( )	200	2000
	10	5	11	70	0.10	0.5	2.0	5.0	2.5	ECA2AM100( )	200	2000
	22	6.3	11.2	115	0.10	0.5	2.5	5.0	2.5	ECA2AM220( )	200	2000

When requesting taped product, please put the letter "B" or "i" between the "( )". Lead wire pitch B=5mm, 7.5mm, i=2.5mm.
The taping dimentions are explained on p of our Catalog. Please use it as a reference guide.
High temperature Load Life test : 85˚C 2000h

■ Standard Products

W.V.	Cap. (±20%)	Case size		Specification		Lead Length				Part No.	Min. Packaging Q'ty	
		Dia.	Length	Ripple current (120Hz) (+85°C)	D.F.	Lead Dia.	Lead Space				Straight Leads	Taping
							Straight	Taping *B	Taping *i			
(V)	(μF)	(mm)	(mm)	(mA)		(mm)	(mm)	(mm)	(mm)		(pcs)	(pcs)
100	33	8	11.5	145	0.10	0.6	3.5	5.0		ECA2AM330( )	200	1000
	47	8	11.5	180	0.10	0.6	3.5	5.0		ECA2AM470( )	200	1000
	100	10	16	350	0.10	0.6	5.0	5.0		ECA2AM101( )	200	500
	220	12.5	20	550	0.10	0.6	5.0	5.0		ECA2AM221( )	200	500
	330	12.5	25	700	0.10	0.6	5.0	5.0		ECA2AM331( )	200	500
	470	16	25	900	0.10	0.8	7.5	7.5		ECA2AM471( )	100	250
	1000	18	35.5	1300	0.10	0.8	7.5			ECA2AM102	50	
160	1	6.3	11.2	36	0.16	0.5	2.5	5.0	2.5	ECA2CM010( )	200	2000
	2.2	6.3	11.2	53	0.16	0.5	2.5	5.0	2.5	ECA2CM2R2( )	200	2000
	3.3	6.3	11.2	66	0.16	0.5	2.5	5.0	2.5	ECA2CM3R3( )	200	2000
	4.7	6.3	11.2	78	0.16	0.5	2.5	5.0	2.5	ECA2CM4R7( )	200	2000
	10	10	12.5	105	0.16	0.6	5.0	5.0		ECA2CM100( )	200	500
	22	10	16	175	0.16	0.6	5.0	5.0		ECA2CM220( )	200	500
	33	10	20	235	0.16	0.6	5.0	5.0		ECA2CM330( )	200	500
	47	12.5	20	320	0.16	0.6	5.0	5.0		ECA2CM470( )	200	500
	100	12.5	25	515	0.16	0.6	5.0	5.0		ECA2CM101( )	200	500
	220	16	31.5	830	0.16	0.8	7.5			ECA2CM221	100	
	330	18	31.5	1090	0.16	0.8	7.5			ECA2CM331	50	
	470	18	40	1440	0.16	0.8	7.5			ECA2CM471	50	
200	1	6.3	11.2	34	0.18	0.5	2.5	5.0	2.5	ECA2DM010( )	200	2000
	2.2	6.3	11.2	50	0.18	0.5	2.5	5.0	2.5	ECA2DM2R2( )	200	2000
	3.3	6.3	11.2	62	0.18	0.5	2.5	5.0	2.5	ECA2DM3R3( )	200	2000
	4.7	8	11.5	86	0.18	0.6	3.5	5.0		ECA2DM4R7( )	200	1000
	10	10	12.5	100	0.18	0.6	5.0	5.0		ECA2DM100( )	200	500
	22	10	20	180	0.18	0.6	5.0	5.0		ECA2DM220( )	200	500
	33	10	20	220	0.18	0.6	5.0	5.0		ECA2DM330( )	200	500
	47	12.5	20	300	0.18	0.6	5.0	5.0		ECA2DM470( )	200	500
	100	16	25	475	0.18	0.8	7.5	7.5		ECA2DM101( )	100	250
	220	18	31.5	835	0.18	0.8	7.5			ECA2DM221	50	
	330	18	40	1140	0.18	0.8	7.5			ECA2DM331	50	
250	1	6.3	11.2	34	0.18	0.5	2.5	5.0	2.5	ECA2EM010( )	200	2000
	2.2	6.3	11.2	50	0.18	0.5	2.5	5.0	2.5	ECA2EM2R2( )	200	2000
	3.3	8	11.5	72	0.18	0.6	3.5	5.0		ECA2EM3R3( )	200	1000
	4.7	8	11.5	86	0.18	0.6	3.5	5.0		ECA2EM4R7( )	200	1000
	10	10	16	110	0.18	0.6	5.0	5.0		ECA2EM100( )	200	500
	22	10	20	180	0.18	0.6	5.0	5.0		ECA2EM220( )	200	500
	33	12.5	20	250	0.18	0.6	5.0	5.0		ECA2EM330( )	200	500
	47	12.5	25	330	0.18	0.6	5.0	5.0		ECA2EM470( )	200	500
	100	16	31.5	530	0.18	0.8	7.5			ECA2EM101	100	
	220	18	40	930	0.18	0.8	7.5			ECA2EM221	50	
350	1	6.3	11.2	32	0.20	0.5	2.5	5.0	2.5	ECA2VM010( )	200	2000
	2.2	8	11.5	55	0.20	0.6	3.5	5.0		ECA2VM2R2( )	200	1000

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High temperature Load Life test : 85°C 2000h

■ Standard Products

W.V.	Cap. (±20%)	Case size		Specification		Lead Length				Part No.	Min. Packaging Q'ty	
		Dia.	Length	Ripple current (120Hz) (+85°C)	D.F.	Lead Dia.	Lead Space				Straight Leads	Taping
							Straight	Taping *B	Taping *i			
(V)	(μF)	(mm)	(mm)	(mA)		(mm)	(mm)	(mm)	(mm)		(pcs)	(pcs)
350	3.3	8	11.5	60	0.20	0.6	3.5	5.0		ECA2VM3R3( )	200	1000
	4.7	10	12.5	65	0.20	0.6	5.0	5.0		ECA2VM4R7( )	200	500
	10	10	20	115	0.20	0.6	5.0	5.0		ECA2VM100( )	200	500
	22	12.5	20	195	0.20	0.6	5.0	5.0		ECA2VM220( )	200	500
	33	16	25	300	0.20	0.8	7.5	7.5		ECA2VM330( )	100	250
	47	16	25	325	0.20	0.8	7.5	7.5		ECA2VM470( )	100	250
	100	18	31.5	535	0.20	0.8	7.5			ECA2VM101	50	
400	1	6.3	11.2	32	0.20	0.5	2.5	5.0	2.5	ECA2GM010( )	200	2000
	2.2	8.0	11.5	50	0.20	0.6	3.5	5.0		ECA2GM2R2( )	200	1000
	3.3	10	12.5	54	0.20	0.6	5.0	5.0		ECA2GM3R3( )	200	500
	4.7	10	16	72	0.20	0.6	5.0	5.0		ECA2GM4R7( )	200	500
	10	10	20	115	0.20	0.6	5.0	5.0		ECA2GM100( )	200	500
	22	12.5	25	215	0.20	0.6	5.0	5.0		ECA2GM220( )	200	500
	33	16	25	275	0.20	0.8	7.5	7.5		ECA2GM330( )	100	250
	47	16	31.5	350	0.20	0.8	7.5			ECA2GM470	100	
	100	18	40	600	0.20	0.8	7.5			ECA2GM101	50	
450	1	8	11.5	37	0.20	0.6	3.5	5.0		ECA2WM010( )	200	1000
	2.2	10	12.5	44	0.20	0.6	5.0	5.0		ECA2WM2R2( )	200	500
	3.3	10	16.0	60	0.20	0.6	5.0	5.0		ECA2WM3R3( )	200	500
	4.7	10	20	79	0.20	0.6	5.0	5.0		ECA2WM4R7( )	200	500
	10	12.5	20	130	0.20	0.6	5.0	5.0		ECA2WM100( )	200	500
	22	16	25	210	0.20	0.8	7.5	7.5		ECA2WM220( )	100	250
	33	16	31.5	285	0.20	0.8	7.5			ECA2WM330	100	

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High temperature Load Life test : 85°C 2000h
*not same as SMO page.