

**SUBJECT: ECE-AxxU (SU) Series Radial Leaded Aluminum Electrolytic Capacitor will be Discontinued Effective per below.**

**BULLETIN #: ECG.PG44.030600**

**Date: March 6, 2000**

**LAST TIME BUY: July 31, 2000**

**LAST TIME SHIPMENT: September 30, 2000**

**SUGGESTED REPLACEMENT: ECA-xxM (M series) Radial Leaded Aluminum Electrolytic Capacitor**

The ECA-xxM “M series” radial leaded aluminum electrolytic capacitor is the recommended replacement for the SU series. Generally the M series is a drop in replacement for the SU series but there may be some exceptions in can size, lead spacing, footprint and electrical properties depending on the capacitance and voltage values required. Please contact the Resident Engineers for the exact replacement part number and any deviations.

Please notify your customers of the change.

### SU series replacement program to M series (last order : July/End/2000)

ECEAxxUxxx → ECAxxMxxx

1998/9/22

If there are 2 items on M-series replacement, First offer = first line item (smaller size) and if customer could not use smaller lead pitch, please offer 2nd line item (higher voltage with same lead space) shows deviation 1999/11/24 rev.A

S U - series							M - series						
Part no.	Volt. V	Cap. uF	Size		Pitch mm	Ripple mA	Part no.	Volt. V	Cap. uF	Size		Pitch mm	Ripple mA
			Dmm	Lmm						Dmm	Lmm		
ECEA0JU101	6.3	100	5	11	2.0	130	ECA1AM101	10	100	5	11	2.0	180
ECEA0JU221	6.3	220	6.3	11.2	2.5	240	ECA0JM221	6.3	220	5	11	2.0	240
							ECA1AM221	10	220	6.3	11.2	2.5	280
ECEA0JU331	6.3	330	6.3	11.2	2.5	300	ECA0JM331	6.3	330	6.3	11.2	2.5	330
ECEA0JU471	6.3	470	8	11.5	3.5	380	ECA0JM471	6.3	470	6.3	11.2	2.5	380
							ECA1AM471	10	470	8	11.5	3.5	440
ECEA0JU102	6.3	1000	10	12.5	5.0	580	ECA0JM102	6.3	1000	8	11.5	3.5	580
							ECA1AM102	10	1000	10	12.5	5.0	630
ECEA0JU222	6.3	2200	12.5	20	5.0	890	ECA0JM222	6.3	2200	10	16	5.0	890
ECEA0JU332	6.3	3300	12.5	20	5.0	1020	ECA0JM332	6.3	3300	10	20	5.0	1020
ECEA0JU472	6.3	4700	16	25	7.5	1170	ECA0JM472	6.3	4700	12.5	20	5.0	1170
							ECA1CM472	16	4700	16	25	7.5	1360
ECEA0JU682	6.3	6800	16	25	7.5	1270	ECA0JM682	6.3	6800	12.5	25	5.0	1270
							ECA1AM682	10	6800	16	25	7.5	1400
ECEA0JU103	6.3	10000	16	31.5	7.5	1450	ECA0JM103	6.3	10000	16	25	7.5	1450
ECEA0JU153	6.3	15000	18	35.5	7.5	1700	ECA0JM153	6.3	15000	16	31.5	7.5	1700
ECEA1AU330	10	33	5	11	2.0	60	ECA1CM330	16	33	5	11	2.0	110
ECEA1AU470	10	47	5	11	2.0	90	ECA1CM470	16	47	5	11	2.0	130
ECEA1AU101	10	100	5	11	2.0	150	ECA1AM101	10	100	5	11	2.0	150
ECEA1AU221	10	220	6.3	11.2	2.5	250	ECA1AM221	10	220	6.3	11.2	2.5	250
ECEA1AU331	10	330	8	11.5	3.5	330	ECA1AM331	10	330	6.3	11.2	2.5	330
							ECA1CM331	16	330	8	11.5	3.5	350
ECEA1AU471	10	470	8	11.5	3.5	400	ECA1AM471	10	470	8	11.5	3.5	400
ECEA1AU102	10	1000	10	16	5.0	630	ECA1AM102	10	1000	10	12.5	5.0	630
ECEA1AU222	10	2200	12.5	20	5.0	920	ECA1AM222	10	2200	10	20	5.0	920
ECEA1AU332	10	3300	12.5	25	5.0	1090	ECA1AM332	10	3300	12.5	20	5.0	1090
ECEA1AU472	10	4700	16	25	7.5	1200	ECA1AM472	10	4700	12.5	25	5.0	1200
							ECA1CM472	16	4700	16	25	7.5	1360
ECEA1AU682	10	6800	16	31.5	7.5	1400	ECA1AM682	10	6800	16	25	7.5	1400
ECEA1AU103	10	10000	18	35.5	7.5	1600	ECA1AM103	10	10000	16	31.5	7.5	1600
ECEA1CU220	16	22	5	11	2.0	75	ECA1CM220	16	22	5	11	2.0	75
ECEA1CU330	16	33	5	11	2.0	110	ECA1CM330	16	33	5	11	2.0	110
ECEA1CU470	16	47	5	11	2.0	130	ECA1CM470	16	47	5	11	2.0	130
ECEA1CU101	16	100	6.3	11.2	2.5	180	ECA1CM101	16	100	5	11	2.0	180
							ECA1EM101	25	100	6.3	11.2	2.5	180
ECEA1CU221	16	220	8	11.5	3.5	280	ECA1CM221	16	220	6.3	11.2	2.5	280
							ECA1EM221	25	220	8	11.5	3.5	310
ECEA1CU331	16	330	8	11.5	3.5	350	ECA1CM331	16	330	8	11.5	3.5	350
ECEA1CU471	16	470	10	12.5	5.0	440	ECA1CM471	16	470	8	11.5	3.5	440
							ECA1EM471	25	470	10	12.5	5.0	480
ECEA1CU102	16	1000	10	20	5.0	680	ECA1CM102	16	1000	10	16	5.0	680
ECEA1CU222	16	2200	12.5	25	5.0	1000	ECA1CM222	16	2200	12.5	20	5.0	1000
ECEA1CU332	16	3300	16	25	7.5	1200	ECA1CM332	16	3300	12.5	25	5.0	1200
							ECA1EM332	25	3300	16	25	7.5	1300
ECEA1CU472	16	4700	16	31.5	7.5	1360	ECA1CM472	16	4700	16	25	7.5	1360
ECEA1CU682	16	6800	18	35.5	7.5	1600	ECA1CM682	16	6800	16	31.5	7.5	1600
ECEA1EU220	25	22	5	11	2.0	90	ECA1HM220	50	22	5	11	2.0	100
ECEA1EU330	25	33	5	11	2.0	110	ECA1VM330	35	33	5	11	2.0	110
ECEA1EU470	25	47	5	11	2.0	130	ECA1EM470	25	47	5	11	2.0	130
ECEA1EU101	25	100	6.3	11.2	2.5	180	ECA1EM101	25	100	6.3	11.2	2.5	180
ECEA1EU221	25	220	8	11.5	3.5	310	ECA1EM221	25	220	8	11.5	3.5	310
ECEA1EU331	25	330	10	12.5	5.0	390	ECA1EM331	25	330	8	11.5	3.5	390
							ECA1VM331	35	330	10	12.5	5.0	440
ECEA1EU471	25	470	10	16	5.0	480	ECA1EM471	25	470	10	12.5	5.0	480
ECEA1EU102	25	1000	12.5	20	5.0	850	ECA1EM102	25	1000	10	20	5.0	850
ECEA1EU222	25	2200	16	25	7.5	1200	ECA1EM222	25	2200	12.5	25	5.0	1200
							ECA1VM222	35	2200	16	25	7.5	1250
ECEA1EU332	25	3300	16	31.5	7.5	1300	ECA1EM332	25	3300	16	25	7.5	1300
ECEA1EU472	25	4700	18	35.5	7.5	1500	ECA1EM472	25	4700	16	31.5	7.5	1500
ECEA1VU4R7	35	4.7	5	11	2.0	35	ECA1HM4R7	50	4.7	5	11	2.0	45
ECEA1VU100	35	10	5	11	2.0	60	ECA1HM100	50	10	5	11	2.0	65
ECEA1VU220	35	22	5	11	2.0	95	ECA1HM220	50	22	5	11	2.0	100
ECEA1VU330	35	33	5	11	2.0	110	ECA1VM330	35	33	5	11	2.0	110

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S U - series							M - series						
Part no.	Volt. V	Cap. uF	Size		Pitch mm	Ripple mA	Part no.	Volt. V	Cap. uF	Size		Pitch mm	Ripple mA
			Dmm	Lmm						Dmm	Lmm		
ECEA1VU470	35	47	6.3	11.2	2.5	130	ECA1VM470	35	47	5	11	2.0	130
							ECA1HM470	50	47	6.3	11.2	2.5	130
ECEA1VU101	35	100	8	11.5	3.5	210	ECA1VM101	35	100	6.3	11.2	2.5	210
							ECA1HM101	50	100	8	11.5	3.5	250
ECEA1VU221	35	220	10	12.5	5.0	350	ECA1VM221	35	220	8	11.5	3.5	350
							ECA1HM221	50	220	10	12.5	5.0	400
ECEA1VU331	35	330	10	16	5.0	440	ECA1VM331	35	330	10	12.5	5.0	440
ECEA1VU471	35	470	10	20	5.0	550	ECA1VM471	35	470	10	16	5.0	550
ECEA1VU102	35	1000	12.5	25	5.0	900	ECA1VM102	35	1000	12.5	20	5.0	900
ECEA1VU222	35	2200	16	31.5	7.5	1250	ECA1VM222	35	2200	16	25	7.5	1250
ECEA1VU332	35	3300	18	35.5	7.5	1400	ECA1VM332	35	3300	16	31.5	7.5	1400
ECEA1HUR47	50	0.47	5	11	2.0	5	ECA1HMR47	50	0.47	5	11	2.0	5
ECEA1HU010	50	1	5	11	2.0	10	ECA1HM010	50	1	5	11	2.0	10
ECEA1HU2R2	50	2.2	5	11	2.0	20	ECA1HM2R2	50	2.2	5	11	2.0	20
ECEA1HU3R3	50	3.3	5	11	2.0	35	ECA1HM3R3	50	3.3	5	11	2.0	35
ECEA1HU4R7	50	4.7	5	11	2.0	45	ECA1HM4R7	50	4.7	5	11	2.0	45
ECEA1HU100	50	10	5	11	2.0	65	ECA1HM100	50	10	5	11	2.0	65
ECEA1HU220	50	22	5	11	2.0	100	ECA1HM220	50	22	5	11	2.0	100
ECEA1HU330	50	33	6.3	11.2	2.5	110	ECA1HM330	50	33	5	11	2.0	110
							ECA1JM330	63	33	6.3	11.2	2.5	130
ECEA1HU470	50	47	6.3	11.2	2.5	130	ECA1HM470	50	47	6.3	11.2	2.5	130
ECEA1HU101	50	100	8	11.5	3.5	250	ECA1HM101	50	100	8	11.5	3.5	250
ECEA1HU221	50	220	10	16	5.0	400	ECA1HM221	50	220	10	12.5	5.0	400
ECEA1HU331	50	330	10	20	5.0	500	ECA1HM331	50	330	10	16	5.0	500
ECEA1HU471	50	470	12.5	20	5.0	650	ECA1HM471	50	470	10	20	5.0	650
ECEA1HU102	50	1000	16	25	7.5	1050	ECA1HM102	50	1000	12.5	25	5.0	1050
							ECA1JM102	63	1000	16	25	7.5	1100
ECEA1HU222	50	2200	18	35.5	7.5	1300	ECA1HM222	50	2200	16	31.5	7.5	1300
ECEA1JUR47	63	0.47	5	11	2.0	5	ECA2AMR47	100	0.47	5	11	2.0	10
ECEA1JU010	63	1.0	5	11	2.0	10	ECA2AM010	100	1	5	11	2.0	20
ECEA1JU2R2	63	2.2	5	11	2.0	29	ECA2AM2R2	100	2.2	5	11	2.0	30
ECEA1JU3R3	63	3.3	5	11	2.0	40	ECA2AM3R3	100	3.3	5	11	2.0	40
ECEA1JU4R7	63	4.7	5	11	2.0	45	ECA2AM4R7	100	4.7	5	11	2.0	50
ECEA1JU100	63	10	5	11	2.0	70	ECA1JM100	63	10	5	11	2.0	70
ECEA1JU220	63	22	6.3	11.2	2.5	105	ECA1JM220	63	22	5	11	2.0	105
							ECA2AM220	100	22	6.3	11.2	2.5	115
ECEA1JU330	63	33	6.3	11.2	2.5	130	ECA1JM330	63	33	6.3	11.2	2.5	130
ECEA1JU470	63	47	8	11.5	3.5	160	ECA1JM470	63	47	6.3	11.2	2.5	160
							ECA2AM470	100	47	8	11.5	3.5	180
ECEA1JU101	63	100	10	12.5	5.0	270	ECA1JM101	63	100	8	11.5	3.5	270
ECEA1JU221	63	220	10	20	5.0	450	ECA1JM221	63	220	10	16	5.0	450
ECEA1JU331	63	330	12.5	20	5.0	550	ECA1JM331	63	330	10	20	5.0	550
ECEA1JU471	63	470	12.5	25	5.0	750	ECA1JM471	63	470	12.5	20	5.0	750
ECEA1JU102	63	1000	16	31.5	7.5	1100	ECA1JM102	63	1000	16	25	7.5	1100
ECEA2AUR47	100	0.47	5	11	2.0	10	ECA2AMR47	100	0.47	5	11	2.0	10
ECEA2AU010	100	1	5	11	2.0	20	ECA2AM010	100	1	5	11	2.0	20
ECEA2AU2R2	100	2.2	5	11	2.0	30	ECA2AM2R2	100	2.2	5	11	2.0	30
ECEA2AU3R3	100	3.3	5	11	2.0	40	ECA2AM3R3	100	3.3	5	11	2.0	40
ECEA2AU4R7	100	4.7	5	11	2.0	50	ECA2AM4R7	100	4.7	5	11	2.0	50
ECEA2AU100	100	10	6.3	11.2	2.5	70	ECA2AM100	100	10	5	11	2.0	70
ECEA2AU220	100	22	8	11.5	3.5	115	ECA2AM220	100	22	6.3	11.2	2.5	115
ECEA2AU330	100	33	10	12.5	5.0	145	ECA2AM330	100	33	8	11.5	3.5	235
ECEA2AU470	100	47	10	16	5.0	180	ECA2AM470	100	47	8	11.5	3.5	180
ECEA2AU101	100	100	12.5	20	5.0	350	ECA2AM101	100	100	10	16	5.0	350
ECEA2AU221	100	220	16	25	7.5	550	ECA2AM221	100	220	12.5	20	5.0	550
ECEA2AU331	100	330	16	25	7.5	700	ECA2AM331	100	330	12.5	25	5.0	700
ECEA2AU471	100	470	16	31.5	7.5	900	ECA2AM471	100	470	16	25	7.5	900
ECEA2CUR47	160	0.47	5	11	2.0	9.5	<i>We don't have standard product of 160v 0.47uF</i>						
ECEA2CU010	160	1	6.3	11.2	2.5	13	ECA2CM010	160	1	6.3	11.2	2.5	36
ECEA2CU2R2	160	2.2	6.3	11.2	2.5	22	ECA2CM2R2	160	2.2	6.3	11.2	2.5	53
ECEA2CU3R3W	160	3.3	6.3	11.5	2.5	31	ECA2CM3R3	160	3.3	6.3	11.2	2.5	66
ECEA2CU4R7	160	4.7	8	11.5	3.5	41	ECA2CM4R7	160	4.7	6.3	11.2	2.5	78
							ECA2DM4R7	200	4.7	8	11.5	3.5	86

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1998/9/22

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S U - series							M - series						
Part no.	Volt. V	Cap. uF	Size		Pitch mm	Ripple mA	Part no.	Volt. V	Cap. uF	Size		Pitch mm	Ripple mA
			Dmm	Lmm						Dmm	Lmm		
ECEA2CU100	160	10	10	12.5	5.0	66	ECA2CM100	160	10	10	12.5	5.0	105
ECEA2CU220W	160	22	10	16	5.0	110	ECA2CM220	160	22	10	16	5.0	175
ECEA2CU330W	160	33	10	20	5.0	144	ECA2CM330	160	33	10	20	5.0	235
ECEA2CU470W	160	47	12.5	20	5.0	180	ECA2CM470	160	47	12.5	20	5.0	320
ECEA2CU101	160	100	16	25	7.5	300	ECA2CM101	160	100	12.5	25	5.0	515
							ECA2DM101	200	100	16	25	7.5	475
ECEA2CU221W	160	220	18	31.5	7.5	510	ECA2CM221	160	220	16	31.5	7.5	830
ECEA2DU010	200	1	6.3	11.2	2.5	16	ECA2DM010	200	1	6.3	11.2	2.5	34
ECEA2DU2R2	200	2.2	6.3	11.2	2.5	27	ECA2DM2R2	200	2.2	6.3	11.2	2.5	50
ECEA2DU3R3	200	3.3	8	11.5	3.5	36	ECA2DM3R3	200	3.3	6.3	11.2	2.5	62
							ECA2EM3R3	250	3.3	8	11.5	3.5	72
ECEA2DU4R7	200	4.7	10	12.5	5.0	45	ECA2DM4R7	200	4.7	8	11.5	3.5	86
							ECA2VM4R7	350	4.7	10	12.5	5.0	65
ECEA2DU100	200	10	10	16	5.0	72	ECA2DM100	200	10	10	12.5	5.0	100
ECEA2DU220	200	22	10	20	5.0	126	ECA2DM220	200	22	10	20	5.0	180
ECEA2DU330W	200	33	12.5	20	5.0	160	ECA2DM330	200	33	10	20	5.0	220
ECEA2DU470	200	47	12.5	25	5.0	193	ECA2DM470	200	47	12.5	20	5.0	300
ECEA2DU101	200	100	16	31.5	7.5	330	ECA2DM101	200	100	16	25	7.5	475
ECEA2EU010	250	1	6.3	11.2	2.5	18	ECA2EM010	250	1	6.3	11.2	2.5	34
ECEA2EU2R2	250	2.2	8	11.5	3.5	31	ECA2EM2R2	250	2.2	6.3	11.2	2.5	50
							ECA2VM2R2	350	2.2	8	11.5	3.5	55
ECEA2EU3R3	250	3.3	10	12.5	5.0	40	ECA2EM3R3	250	3.3	8	11.5	3.5	72
							ECA2GM3R3	400	3.3	10	12.5	5.0	54
ECEA2EU4R7	250	4.7	10	12.5	5.0	49	ECA2EM4R7	250	4.7	8	11.5	3.5	86
							ECA2VM4R7	350	4.7	10	12.5	5.0	65
ECEA2EU100W	250	10	10	16	5.0	81	ECA2EM100	250	10	10	16	5.0	110
ECEA2EU220W	250	22	12.5	20	5.0	144	ECA2EM220	250	22	10	20	5.0	180
ECEA2EU330	250	33	12.5	25	5.0	171	ECA2EM330	250	33	12.5	20	5.0	250
ECEA2EU470	250	47	16	25	7.5	210	ECA2EM470	250	47	12.5	25	5.0	330
							ECA2VM470	350	47	16	25	7.5	325
ECEA2EU101W	250	100	18	31.5	7.5	320	ECA2EM101	250	100	16	31.5	7.5	530
ECEA2VU010	350	1	6.3	11.2	2.5	18	ECA2VM010	350	1	6.3	11.2	2.5	32
ECEA2VU2R2	350	2.2	10	12.5	5.0	28	ECA2VM2R2	350	2.2	8	11.5	3.5	55
							ECA2WM2R2	450	2.2	10	12.5	5.0	44
ECEA2VU3R3	350	3.3	10	16	5.0	35	ECA2VM3R3	350	3.3	8	11.5	3.5	60
							ECA2GM3R3	400	3.3	10	12.5	5.0	54
ECEA2VU4R7	350	4.7	10	16	5.0	40	ECA2VM4R7	350	4.7	10	12.5	5.0	65
ECEA2VU100	350	10	10	20	5.0	70	ECA2VM100	350	10	10	20	5.0	115
ECEA2VU220	350	22	12.5	25	5.0	110	ECA2VM220	350	22	12.5	20	5.0	195
ECEA2VU330	350	33	16	25	7.5	140	ECA2VM330	350	33	16	25	7.5	300
ECEA2VU470	350	47	16	31.5	7.5	170	ECA2VM470	350	47	16	25	7.5	325
ECEA2GU010	400	1	8	11.5	3.5	18	ECA2GM010	400	1	6.3	11.2	2.5	32
							ECA2WM010	450	1	8	11.5	3.5	37
ECEA2GU2R2	400	2.2	10	12.5	5.0	28	ECA2GM2R2	400	2.2	8	11.5	3.5	50
							ECA2WM2R2	450	2.2	10	12.5	5.0	44
ECEA2GU3R3	400	3.3	10	16	5.0	35	ECA2GM3R3	400	3.3	10	12.5	5.0	54
ECEA2GU4R7	400	4.7	10	16	5.0	45	ECA2GM4R7	400	4.7	10	16	5.0	72
ECEA2GU100	400	10	12.5	20	5.0	70	ECA2GM100	400	10	10	20	5.0	115
ECEA2GU220	400	22	16	25	7.5	110	ECA2GM220	400	22	12.5	25	5.0	215
							ECA2WM220	450	22	16	25	7.5	210
ECEA2GU330	400	33	16	25	7.5	140	ECA2GM330	400	33	16	25	7.5	275
ECEA2GU470	400	47	16	31.5	7.5	170	ECA2GM470	400	47	16	31.5	7.5	350
ECEA2WU010	450	1	10	12.5	5.0	19	ECA2WM010	450	1	8	11.5	3.5	37
ECEA2WU2R2	450	2.2	10	16	5.0	29	ECA2WM2R2	450	2.2	10	12.5	5.0	44
ECEA2WU3R3	450	3.3	10	20	5.0	35	ECA2WM3R3	450	3.3	10	16	5.0	60
ECEA2WU4R7	450	4.7	12.5	20	5.0	50	ECA2WM4R7	450	4.7	10	20	5.0	79
ECEA2WU100	450	10	12.5	25	5.0	75	ECA2WM100	450	10	12.5	20	5.0	130
ECEA2WU220	450	22	16	31.5	7.5	110	ECA2WM220	450	22	16	25	7.5	210
ECEA2WU330	450	33	18	31.5	7.5	150	ECA2WM330	450	33	16	31.5	7.5	285