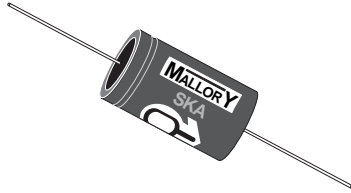


Type SKA Axial Leaded Aluminum Electrolytic Capacitors

85 °C Extended Life General Purpose Capacitor



Type SKA is an axial leaded, 85 °C, 2000 hour extended life general purpose capacitor with a high CV per case size rating. It is suitable for consumer electronic products such as radio and TV applications.

Highlights

- General purpose
- High CV per case size
- Miniature Size
- Available on T&R or Ammo Pack

Specifications

Capacitance Range: 0.47 to 15,000 μF
Voltage Range: 6.3 to 450 WVdc
Capacitance Tolerance: $\pm 20\%$
Operating Temperature Range: $-40\text{ }^{\circ}\text{C}$ to $85\text{ }^{\circ}\text{C}$
Dissipation Factor:

Rated Voltage (V)	6.3	10	16	25	35	50	63	100	160 - 350	400 - 450
$\tan(\delta)$	0.24	0.2	0.17	0.15	0.12	0.10	0.10	0.10	0.20	0.25

For capacitance $> 1,000\text{ }\mu\text{F}$, add .002 for every increase of $1,000\text{ }\mu\text{F}$ at 120 Hz, $20\text{ }^{\circ}\text{C}$

DC Leakage Current: 6.3 to 100 Vdc; $I = .01CV$ or $3\text{ }\mu\text{A}$ @ 5 minutes
 $> 100\text{ Vdc}$; $I = .01CV + 100\text{ }\mu\text{A}$
 C = Capacitance in μF
 V = Rated voltage
 I = Leakage current in μA

Ripple Current Multipliers:

Rated WVdc	Ripple Multipliers		
	60 Hz	120 Hz	1 kHz
6 to 25	0.85	1.0	1.10
35 to 100	0.80	1.0	1.15
160 to 250	0.75	1.0	1.25

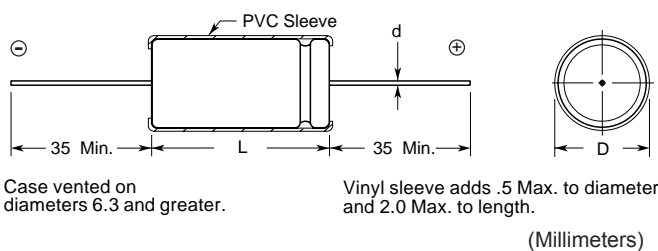
Ambient Temperature	+65 °C	+75 °C	+85 °C
Ripple Multiplier	1.25	1.14	1.00

QA Stability Test:

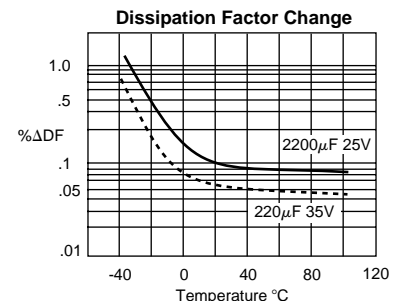
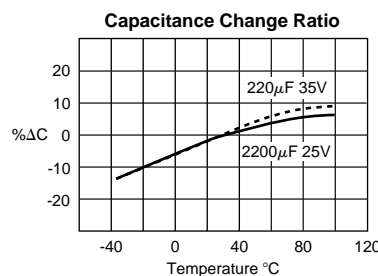
Apply WVdc for 2,000 h at $85\text{ }^{\circ}\text{C}$

- Capacitance change $\leq 20\%$ from initial limits
- DC leakage current meets initial limits
- ESR $\leq 150\%$ of initial measured value

Outline Drawing

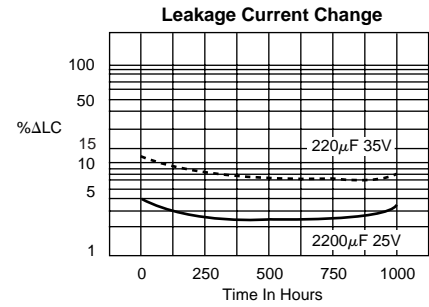
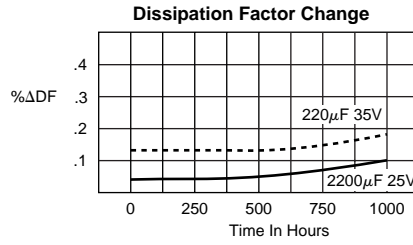
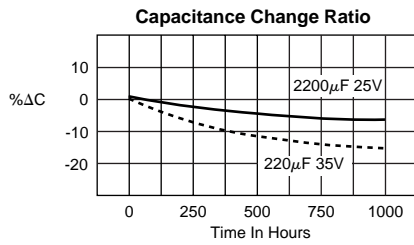


Temperature Characteristics



Type SKA Axial Leaded Aluminum Electrolytic Capacitors

Load Life Characteristics



Ratings

RoHS Compliant

Cap (μF)	Catalog Part Number	Max ESR		Max LC 5 Min. (μA)	Size		
		120 Hz 25 °C (Ω)	120 Hz 85 °C (mA)		Diameter D (mm)	Length L (mm)	Lead Wire (d)
6.3 WVdc (8 Vdc Surge)							
47	SKA470M6R3	10.60	65	3.0	5.0	12.5	0.6
100	SKA101M6R3	5.00	116	7.0	6.0	12.5	0.6
220	SKA221M6R3	1.33	204	13.9	6.3	16.0	0.6
330	SKA331M6R3	1.10	300	20.8	8.0	16.0	0.6
470	SKA471M6R3	0.62	396	29.3	8.0	16.0	0.6
1,000	SKA102M6R3	0.30	500	63.0	10.0	20.0	0.6
2,200	SKA222M6R3	0.14	826	138.6	13.0	25.0	0.6
3,300	SKA332M6R3	0.10	1020	207.9	13.0	30.0	0.6
10,000	SKA103M6R3	0.07	1450	630.0	18.0	45.0	0.8
15,000	SKA153M6R3	0.06	1800	945.0	22.0	40.0	0.8
10 WVdc (13 Vdc Surge)							
47	SKA470M010	6.94	75	5	5	12.5	0.6
100	SKA101M010	3.26	180	10	6	16.0	0.6
220	SKA221M010	1.48	204	22	8	16.0	0.6
330	SKA331M010	0.99	249	33	8	16.0	0.6
470	SKA471M010	0.67	400	47	8	20.0	0.6
1,000	SKA102M010	0.33	585	100	10	21.0	0.6
2,200	SKA222M010	0.15	920	220	13	25.0	0.6
3,300	SKA332M010	0.10	1090	330	13	30.0	0.6
4,700	SKA472M010	0.08	1200	470	16	30.0	0.8
16 WVdc (20 Vdc Surge)							
33	SKA330M016	6.84	60	5.3	6	12.5	0.6
47	SKA470M016	4.80	70	7.5	6	12.5	0.6
100	SKA101M016	2.76	125	16.0	6	16.0	0.6
220	SKA221M016	1.27	221	35.2	8	16.0	0.6
330	SKA331M016	0.85	350	52.8	8	20.0	0.6
470	SKA471M016	0.53	440	75.2	10	17.0	0.6
1,000	SKA102M016	0.21	680	180.0	10	26.0	0.6
2,200	SKA222M016	0.11	1000	352.0	13	30.0	0.6
3,300	SKA332M016	0.10	1200	528.0	16	30.0	0.8
4,700	SKA472M016	0.07	1360	752.0	16	40.0	0.8
25 WVdc (32 Vdc Surge)							
22	SKA220M025	10.05	53	5.5	6	12.5	0.6
33	SKA330M025	6.70	77	8.3	6	12.5	0.6
47	SKA470M025	4.70	91	11.8	6	12.5	0.6
100	SKA101M025	2.21	158	25.0	8	16.0	0.6
220	SKA221M025	1.01	257	55.0	8	20.0	0.6
330	SKA331M025	0.76	367	82.5	10	16.0	0.6
470	SKA471M025	0.47	480	118.0	10	21.0	0.6
1,000	SKA102M025	0.22	850	250.0	13	24.0	0.6
2,200	SKA222M025	0.11	1200	550.0	16	30.0	0.8
3,300	SKA332M025	0.09	1300	825.0	16	40.0	0.8
4,700	SKA472M025	0.07	1500	1175.0	18	42.0	0.8

Cap (μF)	Catalog Part Number	Max ESR		Max LC 5 Min. (μA)	Size		
		120 Hz 25 °C (Ω)	120 Hz 85 °C (mA)		Diameter D (mm)	Length L (mm)	Lead Wire (d)
35 WVdc (44 Vdc Surge)							
10	SKA100M035	17.68	35	3.5	5	12.5	0.6
22	SKA220M035	8.08	53	7.7	6	12.5	0.6
33	SKA330M035	5.54	70	11.6	6	16.0	0.6
47	SKA470M035	3.76	121	16.5	6	16.0	0.6
100	SKA101M035	1.77	194	35.0	8	16.0	0.6
220	SKA221M035	0.80	335	77.0	10	16.0	0.6
330	SKA331M035	0.54	440	115.5	10	21.0	0.6
470	SKA471M035	0.38	550	164.5	10	26.0	0.6
1,000	SKA102M035	0.18	992	350.0	13	32.0	0.6
2,200	SKA222M035	0.09	1250	770.0	16	40.0	0.8
3,300	SKA332M035	0.07	1400	1155.0	18	42.0	0.8
4,700	SKA472M035	0.06	1600	1645.0	22	40.0	0.8
50 WVdc (63 Vdc Surge)							
10	SKA100M050	14.74	36	5.0	6	12.5	0.6
22	SKA220M050	6.70	58	11.0	6	16.0	0.6
33	SKA330M050	4.47	111	16.5	6	16.0	0.6
47	SKA470M050	3.14	130	23.5	8	16	0.6
100	SKA101M050	1.47	250	50.0	8	20	0.6
220	SKA221M050	0.67	388	110.0	10	20	0.6
330	SKA331M050	0.45	433	165.0	10	25	0.6
470	SKA471M050	0.31	650	235.0	13	27	0.6
1,000	SKA102M050	0.15	1050	500.0	16	30	0.8
2,200	SKA222M050	0.08	1300	1100.0	18	40	0.8
3,300	SKA332M050	0.06	1500	1650.0	22	40	0.8
4,700	SKA472M050	0.06	3305	2350.0	22	40	0.8
63 WVdc (79 Vdc Surge)							
4.7	SKA4R7M063	31.4	32	3.0	6	12.5	0.6
10	SKA100M063	14.7	51	6.3	6	12.5	0.6
22	SKA220M063	6.7	91	13.9	6	16.0	0.6
33	SKA330M063	4.47	111	20.8	8	16.0	0.6
47	SKA470M063	3.14	133	29.6	8	16.0	0.6
100	SKA101M063	1.47	247	63.0	10	17.0	0.6
220	SKA221M063	0.67	450	138.6	10	25.0	0.6
330	SKA331M063	0.45	550	207.9	13	27.0	0.6
470	SKA471M063	0.31	750	296.1	13	32.0	0.6
1,000	SKA102M063	0.15	1100	630.0	16	40.0	0.8
2,200	SKA222M063	0.08	1400	1386.0	22	40.0	0.8

