

Surface Mount Aluminum Electrolytic Capacitors

SREJ Series

MERITEK

FEATURE

- Low Impedance, long life series
- Applications : Suitable for AV(TV, Video,Audio), Monitor/Computer, Battery charger, DC/DC converter, SMPS, Noise filter
- Load life: 10⁵°C



Diameter (mm)	Load Life (Hours)
4.0 ~ 10.0	5000



SPECIFICATIONS

Item	Characteristic						
Operating Temperature	-55°C ~ 105°C						
Rated Working Voltage	6.3VDC ~ 50VDC						
Nominal Capacitance	10 μF ~ 470 μF, ±20% (at 20°C, 120HZ)						
Leakage Current	$I_L \leq 0.01CV$ or $3 \mu A$ whichever is greater after 2 minutes at 20°C I _L : Leakage Current (μA) C: Nominal Capacitance (μF) V: Rated Voltage (V)						
Ripple Current Coefficient, Frequency	Frequency (Hz)	120	1K	10K	100K	--	--
	Coefficient	0.70	0.80	0.90	1.00	--	--
Dissipation Factor at 20°C, 120Hz	Working Voltage (V)	6.3	10	16	25	35	50
	Dissipation Factor	0.32	0.28	0.26	0.16	0.14	0.14
Low Temperature Stability, Impedance Ratio at 120Hz	Working Voltage (V)	6.3	10	16	25	35	50
	Z-25°C / Z+20°C	3	3	2	2	2	2
Load Life	Z-40°C / Z+20°C	7	7	5	3	3	3
	Capacitance	≤ ±30% of initial value		Apply Working Voltage for Rated Load Life / Temperature Stabilized at +20°C.			
Dissipation Factor	≤ 300% of initial value						
Leakage Current	≤ Initial specified value						
Shelf Life	Capacitance	≤ ±30% of initial value		After storage condition without voltage applied for 1000 hours at Rated Temperature, Stabilizing for 1 to 2 hours.			
	Dissipation Factor	≤ 300% of initial value					
	Leakage Current	≤ Initial specified value					
Resistance to Soldering Heat	Capacitance	≤ ±20% of initial value		For other procedures than those specified, Soldering iron method: Temperature: 260±5°C. Application time of soldering iron: 10 sec			
	Dissipation Factor	≤ specified value					
	Leakage Current	≤ specified value					

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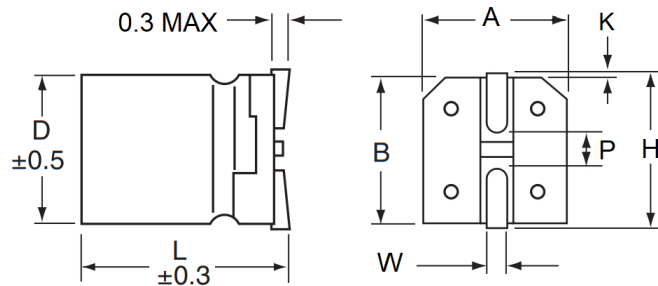
STANDARD RATING

Rated Voltage (VDC)	Cap (μ F)	Case Size (mm)	Tan δ (%)	Ripple Current (mA/rms)	Impedance (Ω)
6.3	47	5x5.8	0.32	95	2.20
	100	6.3x5.8	0.32	140	1.10
	220	6.3x5.8	0.32	230	1.00
	330	6.3x7.7	0.32	230	1.00
	470	8x10.2	0.32	600	0.22
10	33	5x5.8	0.28	95	2.20
	47	6.3x5.8	0.28	140	1.10
	100	6.3x5.8	0.28	140	1.10
	220	6.3x7.7	0.28	280	0.34
16	22	5x5.8	0.26	95	2.20
	33	6.3x5.8	0.26	140	1.10
	47	6.3x5.8	0.26	140	1.10
	100	6.3x7.7	0.26	140	1.10
	220	6.3x7.7	0.26	280	0.34
	330	8x10.2	0.26	450	0.22

Rated Voltage (VDC)	Cap (μ F)	Case Size (mm)	Tan δ (%)	Ripple Current (mA/rms)	Impedance (Ω)
25	22	5x5.8	0.16	95	2.20
	33	6.3x5.8	0.16	140	1.10
	47	6.3x5.8	0.16	140	1.10
	100	6.3x7.7	0.16	230	1.00
	220	8x10.2	0.16	600	0.20
	330	10x10.2	0.16	850	0.16
35	10	5x5.8	0.14	95	2.20
	22	6.3x5.8	0.14	140	1.10
	33	6.3x7.7	0.14	230	1.00
	47	6.3x7.7	0.14	230	1.00
	100	8x10.2	0.14	600	0.22
50	220	10x10.2	0.14	850	0.16
	47	8x10.2	0.14	350	0.53
	100	8x10.2	0.14	560	0.32
	220	10x10.2	0.14	670	0.35

Note: Ripple Current measured at 100KHz, 105°C, Impedance at 20°C 100KHz

DIMENSION



Unit :mm

D	L	A ± 0.2	B ± 0.2	H Max	W	P ± 0.2	K
4.0 (D)	5.4	4.3	5.0	5.5	0.65 \pm 0.1	1.0	0.35+0.15/-0.2
5.0 (E)	5.4	5.3	6.0	6.5	0.65 \pm 0.1	1.5	0.35+0.15/-0.2
6.3 (F)	5.4	6.6	7.3	7.8	0.65 \pm 0.1	2.1	0.35+0.15/-0.2
6.3 (F)	5.8	6.6	7.3	7.8	0.65 \pm 0.1	2.1	0.35+0.15/-0.2
6.3 (F)	7.7	6.6	7.3	7.8	0.65 \pm 0.1	2.1	0.35+0.15/-0.2
8.0 (H)	10.2	8.3	9.1	10.0	0.90 \pm 0.2	3.1	0.70 \pm 0.20
10.0 (J)	10.2	10.3	11.1	12.0	0.90 \pm 0.2	4.6	0.70 \pm 0.20

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PART NUMBERING SYSTEM

SREJ 1H 221M J102
 (1) (2) (3) (4)

No	Item	Code	Description	
(1)	Meritek Series	SREJ	Aluminum Electrolytic Capacitors, SMD type, 5000 Hrs 105°C	
(2)	Rated Voltage	1H	50VDC	DC Voltage Code, 0J to 1H
(3)	Capacitance	221M	220µF ±20% (M)	First two digit: significant, Third: Multiplier
(4)	Size Code	J102	10x10.2mm	DxL (mm)

Voltage	4	6.3	10	16	25	35	50	63	100	160	200	250	350	400	450	500
Code	0G	0J	1A	1C	1E	1V	1H	1J	2A	2C	2D	2E	2V	2G	2W	2H

Diameter	4	5	6.3	8	10	12.5	14.5	16	18	20	22	25
Code	D	E	F	H	J	K	U	L	M	N	P	Q

LEGACY PART NUMBERING SYSTEM

SREJ 50V 221M J102
 (1) (2) (3) (4)

No	(1)	(2)	(3)	(4)
Item	Meritek Series	Rated Voltage	Rated Capacitance	Size Code

*Specifications subject to change without notice.