

Aluminum Electrolytic Capacitors

Surface Mount Type

SRE series

MERITEK

FEATURE

- Ultra Low Impedance Series
- Applications : TV Audio/Video Media, monitor/computer, Communication Power industry, electricity meter, Automotive Application
- Load life: 105°C

Diameter (mm)	Load Life (Hours)
4.0 ~ 10.0	2000



SPECIFICATIONS

Item	Characteristic										
Operating Temperature	-55°C ~ 105°C										
Rated Working Voltage	6.3VDC ~ 50VDC										
Nominal Capacitance	4.7 µF ~ 1500 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	--	--				
Dissipation Factor at 20°C, 120Hz	Coefficient	0.70	0.80	0.90	1.00	--	--				
Low Temperature Stability, Impedance Ratio at 120Hz	Working Voltage (V)	6.3	10	16	25	35	50				
	Dissipation Factor	0.26	0.19	0.16	0.14	0.12	0.12				
	Working Voltage (V)	6.3	10	16	25	35	50				
Z-25°C / Z+20°C	Z-40°C / Z+20°C	2	2	2	2	2	2				
Z-40°C / Z+20°C	Capacitance	3	3	3	3	3	3				
Load Life	Capacitance	$\leq \pm 30\%$ of initial value		Apply Working Voltage for Rated Load Life / Temperature Stabilized at +20°C.							
	Dissipation Factor	$\leq 200\%$ of initial value									
	Leakage Current	\leq Initial specified value									
Shelf Life	Capacitance	$\leq \pm 30\%$ of initial value		After storage condition without voltage applied for 1000 hours at Rated Temperature, Stabilizing for 1 to 2 hours.							
	Dissipation Factor	$\leq 200\%$ of initial value									
	Leakage Current	\leq Initial specified value									
Resistance to Soldering Heat	Capacitance	$\leq \pm 20\%$ 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	\leq specified value									
	Leakage Current	\leq specified value									

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STANDARD RATING

Rated Voltage	Cap	Case Size	Tan δ	Ripple Current	Impedance
(VDC)	(μF)	(mm)	(%)	(mA/rms)	(Ω)
6.3	22	4x5.4	0.26	90	1.80
	33	4x5.4	0.26	90	1.80
	47	4x5.4	0.26	90	1.80
	47	5x5.4	0.26	160	0.76
	100	5x5.4	0.26	160	0.76
	100	6.3x5.4	0.26	240	0.44
	150	6.3x5.4	0.26	240	0.44
	150	6.3x7.7	0.26	240	0.34
	220	6.3x5.4	0.26	240	0.44
	220	6.3x7.7	0.26	240	0.34
	220	8x6.2	0.26	240	0.34
	330	6.3x7.7	0.26	280	0.34
	330	8x6.2	0.26	290	0.34
	470	8x10.2	0.26	600	0.16
	680	8x10.2	0.26	600	0.16
	1000	8x10.2	0.26	600	0.16
	1500	10x10.2	0.26	850	0.08
10	22	4x5.4	0.19	90	1.80
	33	4x5.4	0.19	90	1.80
	33	5x5.4	0.19	160	0.76
	47	6.3x5.4	0.19	190	0.44
	100	6.3x5.4	0.19	190	0.44
	150	6.3x5.4	0.19	200	0.44
	150	6.3x7.7	0.19	240	0.34
	220	6.3x7.7	0.19	280	0.34
	220	8x6.2	0.19	280	0.34
	330	8x10.2	0.19	600	0.16
	470	8x10.2	0.19	600	0.16
	680	10x10.2	0.19	600	0.09
	820	10x10.2	0.19	850	0.08
	1000	10x10.2	0.19	850	0.08
	1200	10x10.2	0.19	850	0.08
16	3.3	4x5.4	0.16	60	1.80
	10	4x5.4	0.16	90	1.80
	22	4x5.4	0.16	90	1.80
	22	5x5.4	0.16	160	0.76
	33	5x5.4	0.16	160	1.00
	47	5x5.4	0.16	160	1.00
	47	6.3x5.4	0.16	240	0.44
	68	6.3x5.4	0.16	240	0.44
	100	6.3x5.4	0.16	240	0.44
	100	6.3x7.7	0.16	280	0.34
	150	6.3x7.7	0.16	280	0.34
	220	6.3x7.7	0.16	280	0.34
	220	8x6.2	0.16	280	0.34
	330	8x10.2	0.16	850	0.08
	470	10x10.2	0.16	850	0.08
	1000	10x10.2	0.16	850	0.08
	1200	10x10.2	0.16	850	0.08

Rated Voltage	Cap	Case Size	Tan δ	Ripple Current	Impedance
(VDC)	(μF)	(mm)	(%)	(mA/rms)	(Ω)
16	220	8x10.2	0.16	370	0.16
	330	8x10.2	0.16	600	0.16
	470	8x10.2	0.16	600	0.16
	470	10x10.2	0.16	650	0.09
	560	10x10.2	0.16	650	0.09
	680	10x10.2	0.16	850	0.08
	10	4x5.4	0.14	90	1.80
	10	5x5.4	0.14	95	1.80
	22	5x5.4	0.14	160	0.76
	33	5x5.4	0.14	160	1.00
25	33	6.3x5.4	0.14	240	0.52
	47	6.3x5.4	0.14	240	0.44
	47	6.3x7.7	0.14	260	0.44
	68	6.3x5.4	0.14	240	0.34
	100	6.3x7.7	0.14	280	0.34
	100	8x6.2	0.14	280	0.34
	150	8x10.2	0.14	600	0.16
	220	8x10.2	0.14	600	0.16
	330	8x10.2	0.14	600	0.16
	470	10x10.2	0.14	850	0.08
35	4.7	4x5.4	0.12	90	1.80
	10	4x5.4	0.12	90	1.80
	10	5x5.4	0.12	160	0.76
	22	5x5.4	0.12	160	0.76
	22	6.3x5.4	0.12	200	0.76
	33	6.3x5.4	0.12	240	0.52
	47	6.3x5.4	0.12	240	0.44
	47	6.3x7.7	0.12	280	0.34
	68	6.3x7.7	0.12	280	0.34
	100	6.3x7.7	0.12	280	0.34
50	100	8x10.2	0.12	600	0.16
	150	8x10.2	0.12	600	0.16
	220	8x10.2	0.12	600	0.16
	330	10x10.2	0.12	850	0.08
	10	5x5.4	0.12	120	1.52
	10	6.3x5.4	0.12	165	0.88
	22	6.3x5.4	0.12	165	0.88
	33	6.3x7.7	0.12	185	0.68
	47	6.3x7.7	0.12	185	0.68
	47	8x6.2	0.12	185	0.68

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

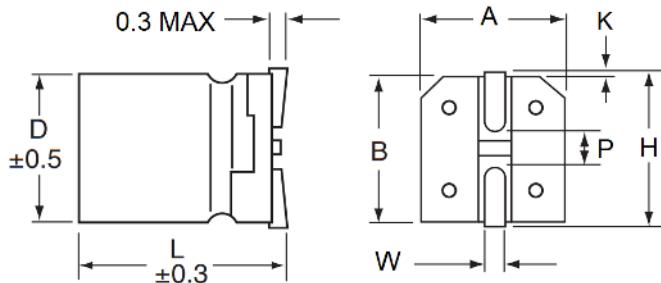
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DIMENSION



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±0.1	1.0	0.35+0.15/-0.2
5.0 (E)	5.4	5.3	6.0	6.5	0.65±0.1	1.5	0.35+0.15/-0.2
6.3 (F)	5.4	6.6	7.3	7.8	0.65±0.1	2.1	0.35+0.15/-0.2
6.3 (F)	7.7	6.6	7.3	7.8	0.65±0.1	2.1	0.35+0.15/-0.2
8.0 (H)	10.2	8.3	9.1	10.0	0.90±0.2	3.1	0.70±0.20
8.0 (H)	6.2	8.3	9.0	9.5	0.65±0.1	2.2	0.35+0.15/-0.2
10.0 (J)	10.2	10.3	11.1	12.0	0.90±0.2	4.6	0.70±0.20

PART NUMBERING SYSTEM

SRE 1H 221M J102

No	Item	Code	Description			
(1)	Meritek Series	SRE	Aluminum Electrolytic Capacitors, SMD type, 2000 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

SRE 1H 221M J102

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

*Specifications subject to change without notice.