

Aluminum Electrolytic Capacitors Surface Mount Type

SRB Series

MERITEK

FEATURE

- General Purpose Series
- Applications: Suitable for AV (TV, Video, Audio), Monitor/Computer, Home appliance, OA/HA/Communication, Industrial, Automobile, Meter.
- Load life at 85°C



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



SPECIFICATIONS

Item	Characteristic										
Operating Temperature	-55°C ~ 85°C										
Rated Working Voltage	4VDC ~ 100VDC										
Nominal Capacitance	1 μF ~ 1500 μF, ±20% (at 20°C, 120HZ)										
Leakage Current	$I_L \leq 0.01CV$ or 3 μA whichever is greater after 2 minutes at 20°C										
Ripple Current Coefficient, Frequency	Frequency (Hz)	60	120	1K	10K	--	--	--	--	--	
	Coefficient	0.80	1.00	1.15	1.25	--	--	--	--	--	
Dissipation Factor at 20°C, 120Hz	Working Voltage (V)	4	6.3	10	16	25	35	50	63	100	
	Dissipation Factor	0.35	0.26	0.20	0.16	0.14	0.12	0.12	0.12	0.10	
Low Temperature Stability, Impedance Ratio at 120Hz	Working Voltage (V)	4	6.3	10	16	25	35	50	63	100	
	Z-25°C / Z+20°C	7	4	3	2	2	2	2	2	2	
	Z-40°C / Z+20°C	15	8	6	4	4	3	3	3	3	
Load Life	Capacitance	≤ ±20% of initial value								Apply Working Voltage for Rated Load Life / Temperature Stabilized at +20°C.	
	Dissipation Factor	≤ 200% of initial value									
	Leakage Current	≤ Initial specified value									
Shelf Life	Capacitance	≤ ±20% of initial value								After storage condition without voltage applied for 1000 hours at Rated Temperature, Stabilizing for 1 to 2 hours.	
	Dissipation Factor	≤ 200% 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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Rated Voltage (VDC)	Rated Capacitance		Case Size (mm)	Tan δ (%)	Ripple Current (mA/rms)
	(μ F)	Code			
4	33	330	4x5.4	0.35	26
	47	470	4x5.4	0.35	34
	100	101	5x5.4	0.35	61
	220	221	6.3x5.4	0.35	82
	330	331	6.3x5.4	0.35	80
	470	471	6.3x7.7	0.35	200
6.3	22	220	4x5.4	0.26	20
	33	330	4x5.4	0.26	22
	47	470	4x5.4	0.26	36
			5x5.4	0.26	46
	100	101	5x5.4	0.26	47
			6.3x5.4	0.26	71
			6.3x7.7	0.26	143
	220	221	6.3x5.4	0.26	74
			6.3x7.7	0.26	235
	330	331	6.3x7.7	0.26	280
			8x6.2	0.26	280
	470	471	8x6.2	0.26	312
			8x10.2	0.26	380
	1000	102	8x10.2	0.26	500
10x10.2			0.26	700	
1500	152	10x10.2	0.26	750	
10	10	100	4x5.4	0.20	20
	22	220	4x5.4	0.20	28
			5x5.4	0.20	40
	33	330	4x5.4	0.20	29
			5x5.4	0.20	43
	47	470	5x5.4	0.20	43
			6.3x5.4	0.20	66
	100	101	5x5.4	0.20	43
			6.3x5.4	0.20	70
	150	151	6.3x5.4	0.20	86
			6.3x5.4	0.20	110
	220	221	6.3x7.7	0.20	250
			8x6.2	0.20	250
	330	331	8x10.2	0.20	330
	470	471	8x10.2	0.20	390
			10x10.2	0.20	400
	680	681	8x10.2	0.20	420
	1000	102	10x10.2	0.20	580

Note: Ripple Current measured at 120Hz, 85°C

Rated Voltage (VDC)	Rated Capacitance		Case Size (mm)	Tan δ (%)	Ripple Current (mA/rms)
	(μ F)	Code			
16	1	1R0	4x5.4	0.16	10
	4.7	4R7	4x5.4	0.16	20
	10	100	4x5.4	0.16	28
			5x5.4	0.16	28
	22	220	4x5.4	0.16	28
			5x5.4	0.16	39
	33	330	4x5.4	0.16	30
			5x5.4	0.16	45
	47	470	6.3x5.4	0.16	66
			5x5.4	0.16	45
			6.3x5.4	0.16	70
	100	101	8x6.2	0.16	85
			6.3x5.4	0.16	70
	220	221	6.3x7.7	0.16	85
			8x6.2	0.16	140
	330	331	6.3x7.7	0.16	162
			8x10.2	0.16	280
	470	471	8x10.2	0.16	320
			10x10.2	0.16	380
	680	681	8x10.2	0.16	350
	800	801	10x10.2	0.16	420
	25	4.7	4R7	4x5.4	0.14
10		100	4x5.4	0.14	24
			5x5.4	0.14	28
22		220	6.3x5.4	0.14	28
			5x5.4	0.14	35
33		330	6.3x5.4	0.14	55
			5x5.4	0.14	42
47		470	6.3x5.4	0.14	65
			6.3x5.4	0.14	70
			6.3x7.7	0.14	96
100		101	8x6.2	0.14	100
			6.3x5.4	0.14	80
220		221	6.3x7.7	0.14	143
			8x6.2	0.14	143
330		331	8x10.2	0.14	180
470		471	8x10.2	0.14	210
680		681	8x10.2	0.14	230
1000		102	10x10.2	0.14	310
	8x10.2		0.14	270	
1500	152	10x10.2	0.14	340	
2000	202	10x10.2	0.14	380	

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Rated Voltage (VDC)	Rated Capacitance		Case Size (mm)	Tan δ (%)	Ripple Current (mA/rms)
	(μ F)	Code			
35	2.2	2R2	4x5.4	0.12	8
	3.3	3R3	4x5.4	0.12	10
			5x5.4	0.12	11
	4.7	4R7	4x5.4	0.12	22
	10	100	4x5.4	0.12	24
			5x5.4	0.12	30
	22	220	5x5.4	0.12	36
			6.3x5.4	0.12	60
	33	330	6.3x5.4	0.12	60
			6.3x7.7	0.12	130
	47	470	6.3x5.4	0.12	70
			6.3x7.7	0.12	165
	100	101	8x6.2	0.12	165
			6.3x7.7	0.12	140
8x10.2			0.12	180	
220	221	10x10.2	0.12	210	
		8x10.2	0.12	200	
150	151	8x10.2	0.12	180	
330	331	10x10.2	0.12	350	
50	1	1R0	4x5.4	0.12	10
	2.2	2R2	4x5.4	0.12	16
	3.3	3R3	4x5.4	0.12	16
	4.7	4R7	4x5.4	0.12	18
			5x5.4	0.12	23
	10	100	5x5.4	0.12	27
			6.3x5.4	0.12	36
	22	220	6.3x5.4	0.12	40
			6.3x7.7	0.12	90
	33	330	6.3x7.7	0.12	90

Note: Ripple Current measured at 120Hz, 85°C

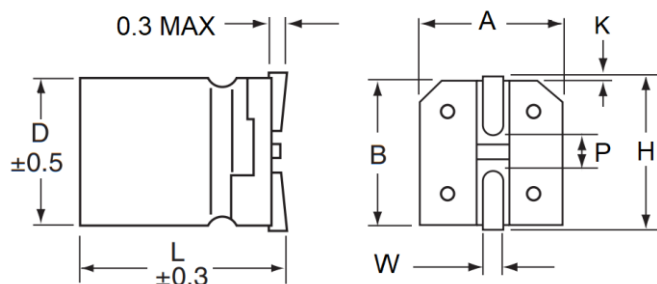
Rated Voltage (VDC)	Rated Capacitance		Case Size (mm)	Tan δ (%)	Ripple Current (mA/rms)
	(μ F)	Code			
50	33	330	8x6.2	0.12	130
			8x10.2	0.12	150
	47	470	6.3x7.7	0.12	90
			8x6.2	0.12	100
	56	56	8x10.2	0.12	190
			8x10.2	0.12	130
	100	101	8x10.2	0.12	200
			10x10.2	0.12	310
220	221	10x10.2	0.12	460	
63	4.7	4R7	5x5.4	0.12	20
			6.3x5.4	0.12	20
	10	100	6.3x5.4	0.12	20
			6.3x7.7	0.12	40
	22	220	8x6.2	0.12	95
			8x10.2	0.12	120
	33	330	8x10.2	0.12	140
	47	470	8x10.2	0.12	170
			10x10.2	0.12	190
	100	101	10x10.2	0.12	280
100	3.3	3R3	6.3x7.7	0.10	50
			6.3x5.4	0.10	40
	4.7	4R7	6.3x7.7	0.10	50
			8x10.2	0.10	60
	10	100	6.3x7.7	0.10	50
			8x10.2	0.10	85
	22	220	8x10.2	0.10	125
			10x10.2	0.10	150
33	330	10x10.2	0.10	180	
47	470	10x10.2	0.10	210	

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DIMENSION



Unit: mm

D	L	A ± 0.2	B Max	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)	7.7	6.6	7.3	7.8	0.65 \pm 0.1	2.1	0.35+0.15/-0.2
8.0 (H)	6.2	8.3	9.0	9.5	0.65 \pm 0.1	2.2	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

PART NUMBERING SYSTEM

SRB **2A** **470M** **J102**
(1) (2) (3) (4)

No	Item	Code	Description
(1)	Meritek Series	SRS	Aluminum Electrolytic Capacitors, SMD type, 2000 Hrs 85°C
(2)	Rated Voltage	2A	100VDC DC Voltage Code
(3)	Capacitance	470M	47 μ F \pm 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

SRB **50V** **470M** **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.