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



RoHS

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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STANDARD RATING

Rated Voltage	Rated Capacitance		Case Size	Tan δ	Ripple Current
(VDC)	(μF)	Code	(mm)	(%)	(mA/rms)
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
	220	221	6.3x5.4	0.20	110
			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	Rated Capacitance		Case Size	Tan δ	Ripple Current
(VDC)	(μF)	Code	(mm)	(%)	(mA/rms)
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
			6.3x5.4	0.16	66
	47	470	5x5.4	0.16	45
			6.3x5.4	0.16	70
			8x6.2	0.16	85
	100	101	6.3x5.4	0.16	70
			6.3x7.7	0.16	85
			8x6.2	0.16	140
	220	221	6.3x7.7	0.16	162
			8x10.2	0.16	280
	330	331	8x10.2	0.16	320
			10x10.2	0.16	380
	470	471	8x10.2	0.16	350
			10x10.2	0.16	420
	680	681	10x10.2	0.16	500
25	4.7	4R7	4x5.4	0.14	22
	10	100	4x5.4	0.14	24
			5x5.4	0.14	28
			6.3x5.4	0.14	28
	22	220	5x5.4	0.14	35
			6.3x5.4	0.14	55
	33	330	5x5.4	0.14	42
			6.3x5.4	0.14	65
	47	470	6.3x5.4	0.14	70
			6.3x7.7	0.14	96
			8x6.2	0.14	100
	100	101	6.3x5.4	0.14	80
			6.3x7.7	0.14	143
			8x6.2	0.14	143
			8x10.2	0.14	180
	180	181	8x10.2	0.14	210
	220	221	8x10.2	0.14	230
			10x10.2	0.14	310
	330	331	8x10.2	0.14	270
			10x10.2	0.14	340
	470	471	10x10.2	0.14	380

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Rated Voltage	Rated Capacitance		Case Size	Tan δ	Ripple Current
(VDC)	(μF)	Code	(mm)	(%)	(mA/rms)
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
			8x6.2	0.12	165
	100	101	6.3x7.7	0.12	140
			8x10.2	0.12	180
			10x10.2	0.12	210
	220	221	8x10.2	0.12	200
			10x10.2	0.12	310
	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

Rated Voltage	Rated Capacitance		Case Size	Tan δ	Ripple Current
(VDC)	(μF)	Code	(mm)	(%)	(mA/rms)
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
			8x10.2	0.12	190
	56	56	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
	22	220	6.3x7.7	0.12	40
			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
	4.7	4R7	6.3x5.4	0.10	40
			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

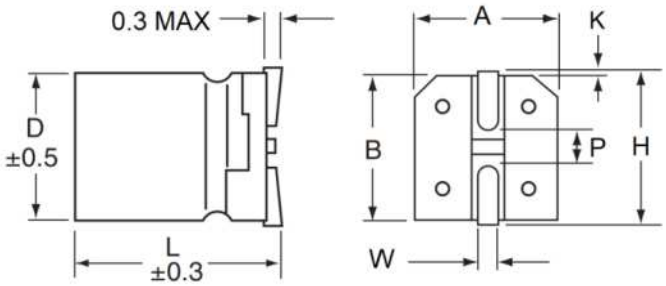
Note: Ripple Current measured at 120Hz, 85°C

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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±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)	6.2	8.3	9.0	9.5	0.65±0.1	2.2	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
10.0 (J)	10.2	10.3	11.1	12.0	0.90±0.2	4.6	0.70±0.20

PART NUMBERING SYSTEM

SRB (1) **2A** (2) **470M** (3) **J102** (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	47µF ±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 (1) **50V** (2) **470M** (3) **J102** (4)

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

*Specifications subject to change without notice.