

Aluminum Electrolytic Capacitors Surface Mount Type

SRBM Series

MERITEK

FEATURE

- General Purpose Capacitor Series
- Applications : Automatic Mounting and Reflow Soldering, Industrial, Automobile, Meter
- Load life: 85°C



Diameter (mm)	Load Life (Hours)
4~10	2000



SPECIFICATIONS

Item	Characteristic							
Operating Temperature	-40°C ~ 85°C							
Rated Working Voltage	6.3VDC ~ 50VDC							
Nominal Capacitance	4.7 μF ~ 1000 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 I_L : Leakage Current (μA) C: Nominal Capacitance (μF) V: Rated Voltage (V)							
Dissipation Factor at 20°C, 120Hz	Working Voltage (V)	6.3	10	16	25	35	50	
	Dissipation Factor	0.35	0.26	0.20	0.15	0.15	0.15	
Low Temperature Stability, Impedance Ratio at 120Hz	Working Voltage (V)	6.3	10	16	25	35	50	
	Z-25°C / Z+20°C	4	3	2	2	2	2	
	Z-40°C / Z+20°C	8	6	4	4	3	3	
Load Life	Capacitance change	≤ ±25% 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 Change	≤ ±25% 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 Change	≤ ±10% 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 (V _{DC})	Rated Capacitance		Tan δ (%)	Case Size DxL (mm)	Ripple Current (mA/rms)
	(μF)	Code			
6.3	33	330	0.35	4.0x5.3	30
	47	470	0.35	5.0x5.3	46
	100	101	0.35	6.3x5.3	71
	220	221	0.35	6.3x5.7	86
	220	221	0.35	8.0x6.3	86
	330	331	0.35	6.3x7.7	190
	330	331	0.35	8.0x6.3	190
	470	471	0.35	8.0x10	252
10	1000	102	0.35	10x10	470
	33	330	0.26	4.0x5.3	35
	47	470	0.26	5.0x5.3	43
	100	101	0.26	6.3x5.3	70
	220	221	0.26	6.3x7.7	250
	220	221	0.26	8.0x6.3	250
	330	331	0.26	8.0x10	330
	470	471	0.26	10x10	400
16	22	220	0.20	4.0x5.3	28
	33	330	0.20	5.0x5.3	35
	47	470	0.20	5.0x5.3	39
	100	101	0.20	6.3x5.7	70
	100	101	0.20	8.0x6.3	70
	220	221	0.20	6.3x7.7	260
	220	221	0.20	8.0x6.3	260
	330	331	0.20	8.0x10	310
	470	471	0.20	8.0x10	460
	470	471	0.20	10x10	460

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

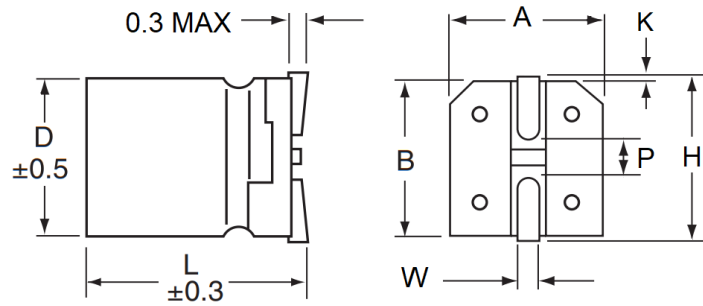
Rated Voltage (V _{DC})	Rated Capacitance		Tan δ (%)	Case Size DxL (mm)	Ripple Current (mA/rms)
	(μF)	Code			
25	10	100	0.15	4.0x5.3	24
	22	220	0.15	5.0x5.3	30
	33	330	0.15	5.0x5.3	40
	47	470	0.15	6.3x5.3	65
	100	101	0.15	8.0x6.3	155
	220	221	0.15	10x10	280
	330	331	0.15	10x10	350
	10	100	0.15	4.0x5.3	26
35	22	220	0.15	6.3x5.3	60
	33	330	0.15	6.3x5.3	70
	47	470	0.15	6.3x7.7	110
	47	470	0.15	8.0x6.3	110
	100	101	0.15	6.3x7.7	180
	100	101	0.15	8.0x6.3	180
	220	221	0.15	10x10	280
	4.7	4R7	0.15	4.0x5.3	20
50	10	100	0.15	5.0x5.3	30
	22	220	0.15	6.3x5.3	50
	33	330	0.15	6.3x5.7	65
	33	330	0.15	8.0x6.3	65
	47	470	0.15	6.3x7.7	155
	47	470	0.15	8.0x10	155
	100	101	0.15	10x10	200

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DIMENSION



Unit: mm

D	L	A ± 0.2	B Max	H Max	W	P ± 0.2	K Max
4 (D)	5.3	4.3	4.7	5.2	0.5~0.8	1.0	0.5
5 (E)	5.3	5.3	5.6	6.1	0.5~0.8	1.5	0.5
6.3 (F)	5.3	6.6	6.9	7.4	0.5~0.8	2.0	0.5
6.3 (F)	5.7	6.6	6.9	7.4	0.5~0.8	2.0	0.5
6.3 (F)	7.7	6.6	6.9	7.4	0.5~0.8	2.0	0.5
8.0 (H)	6.3	8.3	8.7	9.2	0.5~0.8	2.3	0.5
8.0 (H)	10	8.3	8.7	9.2	0.8~1.1	3.1	0.5
10.0 (J)	10	10.3	10.7	11.2	0.8~1.1	4.5	0.5

PART NUMBERING SYSTEM

SRBM 1H 101M J100
(1) (2) (3) (4)

No	Item	Code	Description
(1)	Meritek Series	SRBM	Aluminum Electrolytic Capacitors, SMD type, 2000Hrs 85°C
(2)	Rated Voltage	1H	50VDC DC Voltage Code, 0J to 1H
(3)	Rated Capacitance	101M	100 μ F $\pm 20\%$ (M) First two digit: significant, Third: Multiplier
(4)	Size Code	J100	10x10mm 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

SRBM 50V 101M J100
(1) (2) (3) (4)

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

*Specifications subject to change without notice.