

Aluminum Electrolytic Capacitors Surface Mount Type

SRV 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: 85°C



Diameter (mm)	Load Life (Hours)
4.0 ~ 6.3	3000
8.0 ~ 10.0	5000



SPECIFICATIONS

Item	Characteristic									
Operating Temperature	-55°C ~ 85°C									
Rated Working Voltage	4VDC ~ 100VDC									
Nominal Capacitance	1 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									
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	0.18	0.18
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	$\leq \pm 20\%$ 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	$\leq \pm 20\%$ 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 (VDC)	Rated Capacitance		Case Size (mm)	Tan δ (%)	Ripple Current (mA/rms)
	(μ F)	Code			
4	22	220	4x5.4	0.35	19
	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
6.3	22	220	4x5.4	0.26	20
	33	330	5x5.4	0.26	22
	47	470	5x5.4	0.26	46
	100	101	6.3x5.4	0.26	71
	220	221	6.3x7.7	0.26	250
	330	331	6.3x7.7	0.26	300
	470	471	8x10.2	0.26	380
10	1000	102	10x10.2	0.26	700
	22	220	4x5.4	0.20	28
	33	330	4x5.4	0.20	29
	33	330	5x5.4	0.20	43
	47	470	5x5.4	0.20	43
	100	101	6.3x5.4	0.20	70
	220	221	6.3x7.7	0.20	250
	330	331	8x10.2	0.20	330
	470	471	10x10.2	0.20	400
16	1000	102	10x10.2	0.20	580
	4.7	4R7	4x5.4	0.16	20
	10	100	4x5.4	0.16	28
	22	220	4x5.4	0.16	27
	22	220	5x5.4	0.16	39
	33	330	5x5.4	0.16	45
	33	330	6.3x5.4	0.16	66
	47	470	6.3x5.4	0.16	70
	100	101	6.3x5.4	0.16	70
	220	221	8X10.2	0.16	280
	330	331	10X10.2	0.16	380
	470	471	10X10.2	0.16	420
	25	4.7	4R7	4x5.4	0.14
10		100	4x5.4	0.14	24
10		100	5x5.4	0.14	28

Rated Voltage (VDC)	Rated Capacitance		Case Size (mm)	Tan δ (%)	Ripple Current (mA/rms)
	(μ F)	Code			
25	22	220	6.3x5.4	0.14	55
	33	330	6.3x5.4	0.14	65
	47	470	6.3x5.4	0.14	70
	47	470	6.3x7.7	0.14	96
	100	101	8x10.2	0.14	180
	220	221	10x10.2	0.14	310
35	2.2	2R2	4x5.4	0.12	8
	3.3	3R3	4x5.4	0.12	10
	4.7	4R7	4x5.4	0.12	22
	10	100	4x5.4	0.12	24
	10	100	5x5.4	0.12	30
	22	220	6.3x5.4	0.12	60
	33	330	6.3x7.7	0.12	130
	47	470	6.3x7.7	0.12	165
	100	101	10x10.2	0.12	210
	220	221	10x10.2	0.12	310
	50	1	1R0	4x5.4	0.12
2.2		2R2	4x5.4	0.12	16
3.3		3R3	4x5.4	0.12	16
4.7		4R7	5x5.4	0.12	23
10		100	6.3x5.4	0.12	35
22		220	6.3x7.7	0.12	110
33		330	8x10.2	0.12	120
47		470	10X10.2	0.12	130
100		101	10x10.2	0.12	190
63		4.7	4R7	8X10.2	0.18
	10	100	8X10.2	0.18	25
	22	220	8x10.2	0.18	45
	33	330	10x10.2	0.18	45
	47	470	10x10.2	0.18	55
	100	3.3	3R3	8X10.2	0.18
4.7		4R7	8X10.2	0.18	80
10		100	8X10.2	0.18	85
22		220	10X10.2	0.18	85
33	330	10X10.2	0.18	90	

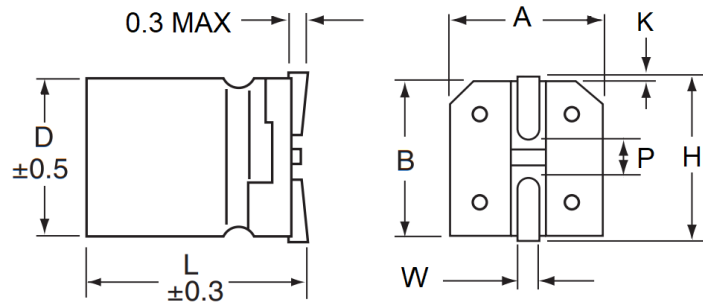
Note: Ripple Current measured at 120Hz, 85°C

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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 \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)	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

SRV 1H 101M J102
(1) (2) (3) (4)

No	Item	Code	Description	
(1)	Meritek Series	SRV	Aluminum Electrolytic Capacitors, SMD type, 3000 ~ 5000 Hrs 85°C	
(2)	Rated Voltage	1H	50VDC	DC Voltage Code, 0G to 1H
(3)	Capacitance	101M	100 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

SRV 50V 101M 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.