

Aluminum Electrolytic Capacitors Surface Mount AEC-Q200

SLL-A series

MERITEK

FEATURE

- Low Leakage Current Series
- AEC-Q200 Compliant
- Load Life at 85°C



Diameter (mm)	Load Life (Hours)
4 ~ 6.3	2000



SPECIFICATIONS

Item	Characteristic					
Operating Temperature	-40 ~ 85°C					
Rated Working Voltage	6.3 ~ 50VDC					
Nominal Capacitance	1.0 ~ 100μF, ±20% (at 20°C, 120HZ)					
Leakage Current	$I_L \leq 0.002CV$ or $0.5\mu A$ whichever is greater after 2 minutes at 20°C					
Ripple Current Coefficient, Frequency	Frequency (Hz)	60	120	1K	10K	--
	Coefficient	0.85	1.00	1.10	1.20	--
Dissipation Factor at 20°C, 120Hz	Working Voltage (V)	6.3	10	25	35	50
	Dissipation Factor	0.24	0.20	0.14	0.12	0.10
	Working Voltage (V)	6.3	10	25	35	50
Low Temperature Stability, Impedance Ratio at 120Hz	Z-25°C / Z+20°C	4	3	2	2	2
	Z-40°C / Z+20°C	8	6	4	3	3
	Capacitance	$\leq \pm 25\%$ of initial value		Apply Working Voltage for Rated Load Life / Temperature Stabilized at +20°C.		
Load Life	Dissipation Factor $\leq 200\%$ of initial value					
Load Life	Leakage Current \leq Initial specified value					
Shelf Life	Capacitance	$\leq \pm 25\%$ of initial value		After storage condition without voltage applied for 1000 hours at Rated Temperature, Stabilizing for 1 to 2 hours.		
	Shelf Life	Dissipation Factor $\leq 200\%$ of initial value				
	Shelf Life	Leakage Current $\leq 200\%$ of initial 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		
	Resistance to Soldering Heat	Dissipation Factor \leq specified value				
	Resistance to Soldering Heat	Leakage Current \leq specified value				

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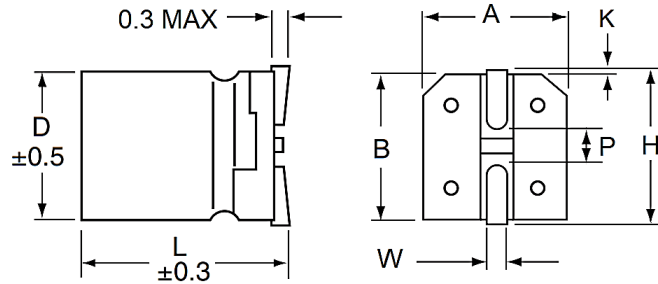
STANDARD RATING

Rated Voltage (V _{DC})	Rated Capacitance		Tan δ (%)	Case Size DxL (mm)	Ripple Current (mA/rms)
	(μF)	Code			
6.3	22	220	0.24	4x5.4	31
	33	330	0.24	5x5.4	39
	47	470	0.24	5x5.4	47
	100	101	0.24	6.3x5.4	71
10	22	220	0.20	5x5.4	35
	33	330	0.20	5x5.4	43
	47	470	0.20	6.3x5.4	59
	100	101	0.20	6.3x5.4	76
16	10	100	0.16	4x5.4	25
	22	220	0.16	5x5.4	39
	33	330	0.16	6.3x5.4	57
	47	470	0.16	6.3x5.4	68

Rated Voltage (V _{DC})	Rated Capacitance		Tan δ (%)	Case Size DxL (mm)	Ripple Current (mA/rms)
	(μF)	Code			
25	4.7	4R7	0.14	4x5.4	19
	10	100	0.14	5x5.4	28
	22	220	0.14	6.3x5.4	52
	33	330	0.14	6.3x5.4	63
35	4.7	4R7	0.12	4x5.4	20
	22	220	0.12	5x5.4	30
	33	330	0.12	6.3x5.4	54
50	1.0	1R0	0.10	4x5.4	10
	2.2	2R2	0.10	4x5.4	15
	3.3	3R3	0.10	4x5.4	18
	4.7	4R7	0.10	5x5.4	23
	10	100	0.10	6.3x5.4	34

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

DIMENSION



Unit: mm

D	L	A ±0.2	B Max	H Max	W ±0.1	P ±0.2	K
4.0 (D)	5.4	4.3	5.0	5.5	0.65	1.0	0.35+0.15/-0.2
5.0 (E)	5.4	5.3	6.0	6.5	0.65	1.5	0.35+0.15/-0.2
6.3 (F)	5.4	6.6	7.3	7.8	0.65	2.1	0.35+0.15/-0.2

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PART NUMBERING SYSTEM

SLL 1H 100 A F054
(1) (2) (3) (4) (5)

No	Item	Code	Description	
(1)	Product Code	SLL	Aluminum Electrolytic Capacitors, SMD type, 2000 Hrs 85°C	
(2)	Rated Voltage	1H	50VDC	DC Voltage Code
(3)	Capacitance	100	10µF ±20% (M)	First two digits: significant, Third: Multiplier
(4)	Series Code	A	AEC-Q200 Compliant Series	
(5)	Size Code	F054	6.3x5.4mm	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

*Specifications subject to change without notice.