

# Aluminum Electrolytic Capacitors Surface Mount Type

SHL series

**MERITEK**

## FEATURE

- Low leakage current Series
- Applications: Low leakage current (0.5μA to 2.0μA max.)
- Load life: 105°C

Diameter (mm)	Load Life (Hours)
4.0 ~ 6.3	2000



## SPECIFICATIONS

Item	Characteristic							
Operating Temperature	-40°C ~ 105°C							
Rated Working Voltage	6.3VDC ~ 50VDC							
Nominal Capacitance	1 μF ~ 100 μF, ±20% (at 20°C, 120HZ)							
Leakage Current	$I_L \leq 0.002CV$ or 0.5 μA 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	16	25	35	50	
	Dissipation Factor	0.24	0.20	0.16	0.14	0.12	0.10	
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	$\leq \pm 25\%$ 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	$\leq \pm 25\%$ 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						

# Aluminum Electrolytic Capacitors Surface Mount Type

SHL series

**MERITEK**

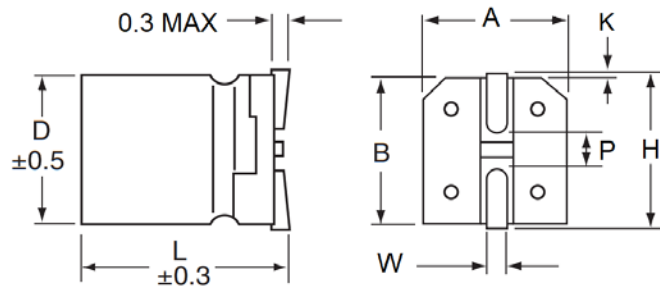
## SPECIFICATIONS

Rated Voltage (VDC)	Rated Capacitance		Case Size (mm)	Tan $\delta$ (%)	Ripple Current (mA/rms)
	$\mu$ F	Code			
6.3	22	220	4x5.4	0.24	24
	33	330	5x5.4	0.24	33
	47	470	5x5.4	0.24	39
	100	101	6.3x5.4	0.24	65
10	22	220	5x5.4	0.20	30
	33	33	5x5.4	0.20	36
	47	470	6.3x5.4	0.20	50
	100	101	6.3x5.4	0.20	70
16	10	100	4x5.4	0.16	20
	22	220	5x5.4	0.16	33
	33	330	6.3x5.4	0.16	46
	47	470	6.3x5.4	0.16	55

Rated Voltage (VDC)	Rated Capacitance		Case Size (mm)	Tan $\delta$ (%)	Ripple Current (mA/rms)
	$\mu$ F	Code			
25	4.7	4R7	4x5.4	0.14	14
	10	100	5x5.4	0.14	24
	22	220	6.3x5.4	0.14	41
	33	330	6.3x5.4	0.14	50
35	4.7	4R7	4x5.4	0.12	15
	10	100	5x5.4	0.12	26
	22	220	6.3x5.4	0.12	44
50	1	1R0	4x5.4	0.10	8
	2.2	2R2	4x5.4	0.10	12
	3.3	3R3	4x5.4	0.10	14
	4.7	4R7	5x5.4	0.10	19
	10	100	6.3x5.4	0.10	32

Note: Ripple Current measured at 120Hz, 105°C

## DIMENSION



Unit: mm

D	L	A $\pm 0.2$	B $\pm 0.2$	H Max	W	P $\pm 0.2$	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

# Aluminum Electrolytic Capacitors Surface Mount Type

SHL series

**MERITEK**

## PART NUMBERING SYSTEM

SHL    1H    100M    F054  
(1)        (2)        (3)        (4)

No	Item	Code	Description	
(1)	Meritek Series	SHL	Aluminum Electrolytic Capacitors, SMD type, 2000 Hrs 105°C	
(2)	Rated Voltage	1H	50VDC	DC Voltage Code, 0J to 1H
(3)	Capacitance	100M	10µF ±20% (M)	First two digit: significant, Third: Multiplier
(4)	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

## LEGACY PART NUMBERING SYSTEM

SHL    50V    100M    F054  
(1)        (2)        (3)        (4)

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

\*Specifications subject to change without notice.