

# Aluminum Electrolytic Capacitors

## 105°C 1000Hrs

SSH Series

MERITEK

### FEATURE

- Operating Temperature: -55°C ~ +105°C
- Load Life of 1000 Hours
- Wide Temperature Range 5mm Height at 105°C



### SPECIFICATIONS

Item	Characteristic											
Operation Temperature	-55°C ~ + 105°C											
Rated Working Voltage	4 ~ 50VDC											
Capacitance Tolerance	$\pm 20\%$ (M) at 120Hz 20°C											
Leakage Current at 20°C	I $\leq 0.01CV$ or 3 ( $\mu A$ ) *Whichever is greater after 2 minutes					I: C: V:	Leakage Current ( $\mu A$ ) Capacitance ( $\mu F$ ) Working Voltage (V)					
Surge Voltage at 20°C	Rated Voltage (V)	4	6.3	10	16	25	35	50				
	Surge Voltage (V)	5	8	13	20	32	44	63				
Dissipation Factor-tan δ At 120Hz 20°C	Rated Voltage (V)	4	6.3	10	16	25	35	50				
	tan δ max	0.37	0.28	0.24	0.20	0.16	0.13	0.12				
Low Temperature Stability	Rated Voltage (V)	4	6.3	10	16	25	35	50				
	-25°C / +20°C	6	3	3	2	2	2	2				
	-40°C / +20°C	12	8	5	4	3	3	3				
	Impedance ratio at 120Hz											
Load Life	Capacitance Change	$\leq \pm 25\%$ of initial value			After 1000 hours application of W.V. and +105°C ripple current value, the capacitor shall meet the following limits. (DC + ripple peak voltage $\leq$ rate working voltage)							
	Dissipation Factor	$\leq 200\%$ of initial specified value										
	Leakage current	$\leq$ initial specified value										
Shelf Life	At + 105°C no voltage application after 1000 hours the capacitor shall meet the limits for load life characteristics. (with voltage treatment)											

# Aluminum Electrolytic Capacitors

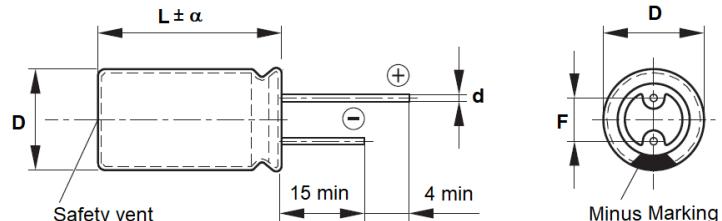
## 105°C 1000Hrs

SSH Series

MERITEK

### DIMENSION

Unit: mm			
D+0.5(max)	4	5	6.3
F±0.5	1.5	2.0	2.5
d±0.05	0.45	0.45	0.45
α	1.0	1.0	1.0



### CASE SIZE AND MAX RIPPLE CURRENT

Capacitance		4VDC (0G)		6.3VDC (0J)		10VDC (1A)		16VDC (1C)		25VDC (1E)		35VDC (1V)		50VDC (1H)	
		DxL	RC	DxL	RC	DxL	RC	DxL	RC	DxL	RC	DxL	RC	DxL	RC
μF	Code	mm	mA	mm	mA	mm	mA	mm	mA	mm	mA	mm	mA	mm	mA
1.0	1R0	--	--	--	--	--	--	--	--	--	--	→	→	4x5	8
2.2	2R2	--	--	--	--	--	--	--	--	--	--	→	→	4x5	11
3.3	3R3	--	--	--	--	--	--	--	--	--	--	→	→	4x5	14
4.7	4R7	--	--	--	--	--	--	→	→	4x5	14	4x5	15	5x5	19
10	100	--	--	--	--	→	→	4x5	19	5x5	23	5x5	25	6.3x5	31
22	220	4x5	19	4x5	23	5x5	29	5x5	32	6.3x5	39	6.3x5	42	--	--
33	330	5x5	26	5x5	32	5x5	35	6.3x5	45	6.3x5	48	--	--	--	--
47	470	5x5	32	5x5	38	6.3x5	48	6.3x5	55	--	--	--	--	--	--
100	101	6.3x5	55	6.3x5	65	--	--	--	--	--	--	--	--	--	--

Note:

1. Max ripple current :mA(rms) at 105°C. 120Hz

2. All blank voltage on sleeve marking is the same voltage as "→" point to.

# Aluminum Electrolytic Capacitors

**105°C 1000Hrs**

SSH Series

MERITEK

## PART NUMBERING SYSTEM

<b>SSH</b>	<b>1H</b>	<b>1R0</b>	<b>M</b>	<b>D</b>	<b>050</b>	<b>A</b>	<b>B</b>
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)

No	Item	Code	Description				Series Reference
(1)	<b>Meritek Series</b>	SSH	Aluminum Electrolytic Capacitors				Miniature Sized 5mm Height, 1000Hrs 105°C
(2)	<b>Rated Voltage Code</b>	1H	50V:50V				DC working voltage, See Table Below
(3)	<b>Capacitance</b>	1R0	1R0:1μF				First two digit: significant, Third: Multiplier
(4)	<b>Tolerance</b>	M	M: ± 20%				-20% ~ +20%
(5)	<b>Case Diameter Code</b>	D	D: 4.0 mm				See Table Below
(6)	<b>Case Height</b>	050	050: 5.0 mm				Third digit denotes the first decimal place
(7)	<b>Package</b>	A	A: Tape & Ammo				R: Tape & Reel, Blank : Bulk
(8)	<b>Taping Pitch Code</b>	B	B: 2.0 mm				See Table Below, Blank: Bulk

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				

Pitch	1.5	2	2.5	3.5	5	7.5
Code	A	B	C	D	E	F

## LEGACY PART NUMBERING SYSTEM

<b>SSH</b>	<b>50V</b>	<b>1R0</b>	<b>M</b>	<b>TA</b>	<b>0405</b>
(1)	(2)	(3)	(4)	(5)	(6)

No	(1)	(2)	(3)	(4)	(5)	(6)
Item	Meritek Series	Rated Voltage	Capacitance	Tolerance	Package	Case Size

\*Specifications subject to change without notice.