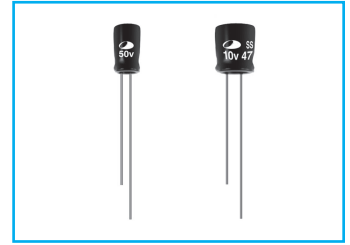
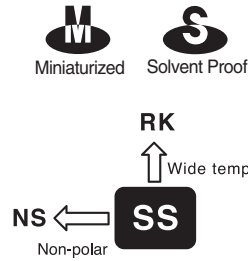


# MINIATURE ALUMINUM ELECTROLYTIC CAPACITORS



## SS Standard, Height 7mmL Series

- Super miniature series with 7mmL height
- Suited for use in compact audio equipment
- Load life of 2000 hours at 85°C
- Complied to the RoHS directive



Item	Characteristics
Operating temperature range	-40 ~ +85°C
Leakage current max.	$I = 0.01CV$ or $4\mu A$ whichever is greater (after 1 minute)
Capacitance tolerance	$\pm 20\%$ at 120Hz, 20°C
Dissipation factor max. (at 120Hz, 20°C)	WV    4    6.3    10    16    25    35, 40    50    63
	tan $\delta$ 0.35    0.24    0.20    0.16    0.14    0.12    0.10    0.10
Low temperature characteristics (Impedance ratio at 120Hz)	WV    4    6.3    10    16, 25    35 ~ 63
	Z-25°C/Z+20°C    6    4    3    2    2
	Z-40°C/Z+20°C    12    8    6    4    3
Load life (after application of the rated voltage for 2000 hours at 85°C)	Leakage current    Less than specified value
	Capacitance change    Within $\pm 20\%$ of initial value
	tan $\delta$ Less than 200% of specified value
Shelf life (at 85°C)	After 1000 hours no load test, leakage current, capacitance and tan $\delta$ are same as load life value. The measurement shall be performed at 20°C by the KS C IEC 60384 - 4

### ● DRAWING (See page 98)

### ● DIMENSIONS & MAXIMUM PERMISSIBLE RIPPLE CURRENT

$\mu F$ \ WV	4	6.3	10	16	25	35	40	50	63							
1.0								4×7	14	4×7	14					
1.5								4×7	17	4×7	17					
2.2								4×7	21	4×7	21					
3.3								4×7	25	4×7	25					
4.7								4×7	30	4×7	30					
6.8						4×7	33	4×7	33	4×7	37	5×7	42			
10					4×7	37	4×7	40	4×7	40	5×7	51	5×7	51		
15				4×7	43	4×7	46	5×7	57	5×7	57	6.3×7	72	6.3×7	72	
22			4×7	46	4×7	52	5×7	64	5×7	69	6.3×7	80	6.3×7	88		
33	4×7	43	4×7	52	4×7	57	5×7	73	5×7	78	6.3×7	98	6.3×7	98		
47	4×7	51	4×7	62	5×7	78	5×7	87	6.3×7	108						
68	5×7	71	5×7	86	5×7	94	6.3×7	122								
100	5×7	86	5×7	104	6.3×7	132	6.3×7	148								
150	6.3×7	122	6.3×7	148	6.3×7	162										
220	6.3×7	148	6.3×7	179												

↑ ↑

Ripple current (mA rms) at 85°C, 120Hz  
Case size  $\varnothing D \times L$  (mm)

### ● FREQUENCY COEFFICIENT OF PERMISSIBLE RIPPLE CURRENT

$\mu F$ \ Frequency	60Hz	120Hz	1kHz	10kHz	50kHz	100kHz $\leq$
~ 47	0.75	1.00	1.55	2.00	2.00	2.00
68 ~	0.80	1.00	1.35	1.50	1.62	1.75

MINIATURE TYPES