

SSM SERIES(5mmL 高 +85°C Standard標準品)

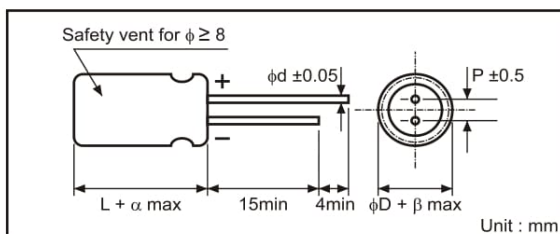
- Designed for space-saving and high density insertion.
- Low price compared to tantalum capacitors.



◆ SPECIFICATIONS

Item	Performance Characteristics																									
Operating temperature range	-40 to +85°C																									
Rated Working Voltage Range	4 to 50V																									
Nominal Capacitance Range	0.1 to 470μF																									
Capacitance Tolerance	±20(120Hz, +20°C)																									
Leakage Current	I ≤ 0.01CV or 3(μA) after 5 minutes application of rated working voltage at +20°C																									
Dissipation Factor tan δ(120Hz, +20°C)	<table border="1"> <thead> <tr> <th>Working Voltage(V)</th> <th>4</th> <th>6.3</th> <th>10</th> <th>16</th> <th>25</th> <th>35</th> <th>50</th> </tr> </thead> <tbody> <tr> <td>tan δ(max)</td> <td>0.37</td> <td>0.28</td> <td>0.24</td> <td>0.2</td> <td>0.16</td> <td>0.13</td> <td>0.12</td> </tr> </tbody> </table>		Working Voltage(V)	4	6.3	10	16	25	35	50	tan δ(max)	0.37	0.28	0.24	0.2	0.16	0.13	0.12								
Working Voltage(V)	4	6.3	10	16	25	35	50																			
tan δ(max)	0.37	0.28	0.24	0.2	0.16	0.13	0.12																			
Low Temperature Characteristics	Impedance ratio max at 120Hz <table border="1"> <thead> <tr> <th>Working Voltage(V)</th> <th>4</th> <th>6.3</th> <th>10</th> <th>16</th> <th>25</th> <th>35</th> <th>50</th> </tr> </thead> <tbody> <tr> <td>Z-25°C/Z+20°C</td> <td>6</td> <td>3</td> <td>3</td> <td>2</td> <td>2</td> <td>2</td> <td>2</td> </tr> <tr> <td>Z-40°C/Z+20°C</td> <td>12</td> <td>8</td> <td>5</td> <td>4</td> <td>3</td> <td>3</td> <td>3</td> </tr> </tbody> </table>		Working Voltage(V)	4	6.3	10	16	25	35	50	Z-25°C/Z+20°C	6	3	3	2	2	2	2	Z-40°C/Z+20°C	12	8	5	4	3	3	3
Working Voltage(V)	4	6.3	10	16	25	35	50																			
Z-25°C/Z+20°C	6	3	3	2	2	2	2																			
Z-40°C/Z+20°C	12	8	5	4	3	3	3																			
High Temperature Loading	Test conditions Duration : 1000 hours Ambient temp : +85°C Applied voltage : Rated DC working voltage	Post test requirements at +20°C Leakage current : ≤ Initial specified value Cap . Change : ≤ ±20% of Initial measured value tan δ : ≤ 200% of Initial specified value																								
Shelf Life	Test conditions Duration : 500 hours Ambient temp : +85°C Applied voltage:(None)	Post test requirements at +20°C Leakage current : ≤ Initial specified value Cap . Change : ≤ ±20% of Initial measured value tan δ : ≤ 200% of Initial specified value																								

◆ CASE SIZE TABLE



ΦD	4	5	6.3	8
P	1.5	2.0	2.5	3.5
φd	0.45	0.45	0.45	0.45
α	1.5			
β	0.5			

◆ RIPPLE CURRENT MULTIPLIER

(1) Frequency Coefficient

cap(μf) \ freq. (Hz)	50	120	300	1k	10k~
≤ 47	0.75	1.00	1.35	1.57	2.00
56~470	0.80	1.00	1.23	1.34	1.50

(2) Temperature Coefficient

Temperature	~55	65	70	85
FACTOR	1.65	1.50	1.30	1.00

SSM SERIES(5mmL 高 +85℃ Standard標準品)

◆ DIMENSIONS

Voltage	4V		6.3V		10V		16V	
Cap(μF)	Size	Ripple	Size	Ripple	Size	Ripple	Size	Ripple
10							4*5	22
22	4*5	20	4*5	21	4*5	24	4*5	28
							5*5	35
33	4*5	24	4*5	25	4*5	32	4*5	33
							5*5	40
47	4*5	32	4*5	33	4*5	45	5*5	48
	5*5	40	5*5	41	5*5	51	6.3*5	56
100	5*5	53	5*5	53	5*5	62	6.3*5	81
	6.3*5	64	6.3*5	66	6.3*5	74	8*5	95
220	6.3*5	80	6.3*5	87	6.3*5	95	8*5	119
					8*5	111		
330	8*5	86	8*5	96	8*5	140		
470	8*5	97	8*5	107				

Maximum Allowable Ripple Current (mA rms) at 85℃ 120Hz

Case Size ΦD X L (mm)

Voltage	25V		35V		50V			
Cap(μF)	Size	Ripple	Size	Ripple				
0.1					4*5	1.8		
0.22					4*5	3.9		
0.33					4*5	4.2		
0.47					4*5	4.9		
1					4*5	8.1		
2.2			4*5	11	4*5	15		
3.3			4*5	15	4*5	18		
4.7	4*5	17	4*5	20	5*5	24		
	5*5	24	5*5	22				
10	4*5	21	5*5	29	5*5	31		
	5*5	27			6.3*5	36		
22	5*5	33	5*5	41	6.3*5	59		
	6.3*5	43	6.3*5	54				
33	6.3*5	53	8*5	69	8*5	75		
47	5*5	57	8*5	95				
	6.3*5	65						
100	8*5	107						

Maximum Allowable Ripple Current (mA rms) at 85℃ 120Hz

Case Size ΦD X L (mm)