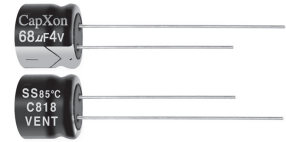


CapXon SS Series

SS Series 5 mm 85°C

Features

- ◆ Design for space-saving and high density insertion.
- ◆ 4WV products are standardized for recent battery power source devices.
- ◆ Low price compared to Tantalum capacitors.
- ◆ Applications: VTR, car radio and commercial applications.
- ◆ For detail specifications, please refer to Engineering Bulletin No. E108
- ◆ RoHS Compliant



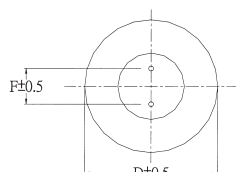
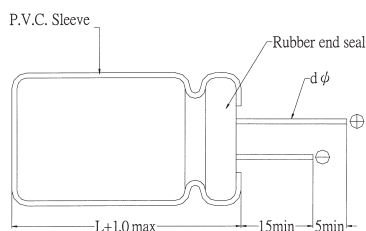
Specifications

Item	Performance Characteristics																								
Operating Temperature Range	-40 to +85°C																								
Rated Voltage Range	4 to 50 VDC																								
Capacitance Range	0.1 to 330 µF																								
Capacitance Tolerance	±20% (120Hz, +20°C)																								
Leakage Current(+20°C, max)	I ≤ 0.01 CV or 3 (µA) After 1 minute, whichever is greater measured with rated working voltage applied.																								
Dissipation Factor (tan δ, at 20°C, 120Hz)	<table border="1"> <thead> <tr> <th>Working Voltage (VDC)</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>D.F. (%)max</td> <td>35</td> <td>24</td> <td>20</td> <td>16</td> <td>14</td> <td>12</td> <td>10</td> </tr> </tbody> </table>	Working Voltage (VDC)	4	6.3	10	16	25	35	50	D.F. (%)max	35	24	20	16	14	12	10								
Working Voltage (VDC)	4	6.3	10	16	25	35	50																		
D.F. (%)max	35	24	20	16	14	12	10																		
Low Temperature Characteristics (at 120Hz)	Impedance ratio max <table border="1"> <thead> <tr> <th>Rated voltage(VDC)</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>7</td> <td>4</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>15</td> <td>8</td> <td>8</td> <td>4</td> <td>4</td> <td>3</td> <td>3</td> </tr> </tbody> </table>	Rated voltage(VDC)	4	6.3	10	16	25	35	50	Z-25°C / Z+20°C	7	4	3	2	2	2	2	Z-40°C / Z+20°C	15	8	8	4	4	3	3
Rated voltage(VDC)	4	6.3	10	16	25	35	50																		
Z-25°C / Z+20°C	7	4	3	2	2	2	2																		
Z-40°C / Z+20°C	15	8	8	4	4	3	3																		
Load Life	Test conditions Duration time :1000 Hrs Ambient temperature :+85°C Applied voltage :Rated DC working voltage After test requirements at +20°C Capacitance change :≤ ±20% of the initial measured value (4V : ≤ ±30%) Dissipation factor :≤ 200% of the initial specified value Leakage current :≤ The initial specified value																								
Shelf Life	Test conditions Duration time :1000 Hrs Ambient temperature :+85°C Applied voltage :None After test requirements at +20°C : Same limits as Load life. Pre-treatment for measurements shall be conducted after application of DC working voltage for 30 minutes.																								

Multiplier for Ripple Current vs. Frequency

CAP(µF) \ Frequency(Hz)	60(50)	120	1K	≥10K
0.1~68 µF	0.8	1	1.30	1.50
100~330 µF	0.8	1	1.15	1.20

Diagram of Dimensions:(unit:mm)



Dψ	3	4	5	6.3	8
F	1.0±0.3	1.5±0.5	2.0±0.5	2.5±0.5	3.5±0.5
dψ	0.4	0.45		0.50	

CapXon SS Series

Case Size

φ DxL(mm)

WV (SV) Cap(μF)	4 (5)		6.3 (8)		10 (13)		16 (20)		25 (32)		35 (44)		50 (63)		
	Size	Ripple	Size	Ripple	Size	Ripple	Size	Ripple	Size	Ripple	Size	Ripple	Size	Ripple	
0.1													3x5	1.0	
													4x5	1.5	
0.15													3x5	1.8	
													4x5	2.0	
0.22													3x5	2.3	
													4x5	2.6	
0.33													3x5	3.0	
													4x5	3.2	
0.47													3x5	3.5	
													4x5	3.8	
0.68													3x5	4.6	
													4x5	5.0	
1													3x5	5.6	
													4x5	6.2	
1.5													3x5	6.5	
													4x5	7.0	
2.2												3x5	8.4	3x5	8.6
												4x5	8.4	4x5	9.0
3.3												3x5	10	4x5	14
												4x5	10	4x5	11
4.7															
6.8															
10															
15															
22															
33															
47															
68															
100															
220															
330															

Ripple Current (mA, rms) at 85°C 120Hz

Radial