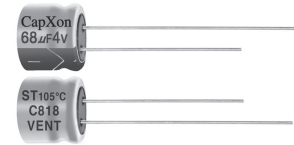


CapXon ST Series

ST Series 5 mm 105°C

Features

- ◆ 5.0+1 mm max height
- ◆ Load life 105°C, 1000 hrs assured
- ◆ For detail specifications, please refer to Engineering Bulletin No. E112
- ◆ RoHS Compliant



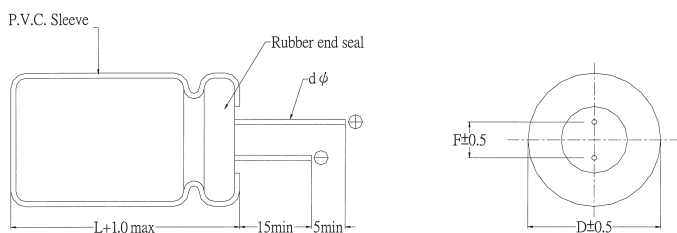
Specifications

Item	Performance Characteristics																								
Operating Temperature Range	-40 to +105°C																								
Rated Voltage Range	4 to 50 VDC																								
Capacitance Range	0.1 to 100 µF																								
Capacitance Tolerance	± 20% (120Hz, +20°C)																								
Leakage Current(+20°C, max)	1 ≤ 0.01 CV or 3 (µA) After 2 minutes, whichever is greater measured with rated working voltage applied.																								
Dissipation Factor (tan δ, at 20°C, 120Hz)	<table border="1"> <tr> <td>Working Voltage (VDC)</td> <td>4</td> <td>6.3</td> <td>10</td> <td>16</td> <td>25</td> <td>35</td> <td>50</td> </tr> <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> </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"> <tr> <td>Working Voltage (VDC)</td> <td>4</td> <td>6.3</td> <td>10</td> <td>16</td> <td>25</td> <td>35</td> <td>50</td> </tr> <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> </table>	Working Voltage (VDC)	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 (VDC)	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																		
Load Life	Test conditions Duration time :1000 Hrs Ambient temperature :+105°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 :+105°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)	50(60)	120	1K	≥10K
0.1~47	0.8	1	1.30	1.50
100~220	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 ST Series

Case Size

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	
1													3x5	5.6	
													4x5	6.2	
1.5													3x5	6.5	
													4x5	7	
2.2												3x5	7.5	3x5	8
												4x5	7.5	4x5	11
3.3												3x5	8.5	3x5	9
												4x5	8.5	4x5	11
4.7												3x5	9	3x5	10
												4x5	9	4x5	13
6.8												3x5	11	4x5	13
												4x5	11	4x5	15
10												3x5	11	4x5	13
												4x5	11	4x5	15
10												3x5	11	4x5	13
												4x5	11	4x5	15
15												3x5	11	4x5	13
												4x5	11	4x5	15
15												3x5	11	4x5	13
												4x5	11	4x5	15
22												3x5	11	4x5	13
												4x5	11	4x5	15
22												3x5	11	4x5	13
												4x5	11	4x5	15
33												3x5	11	4x5	13
												4x5	11	4x5	15
33												3x5	11	4x5	13
												4x5	11	4x5	15
47												3x5	11	4x5	13
												4x5	11	4x5	15
47												3x5	11	4x5	13
												4x5	11	4x5	15
68												3x5	11	4x5	13
												4x5	11	4x5	15
68												3x5	11	4x5	13
												4x5	11	4x5	15
100												3x5	11	4x5	13
												4x5	11	4x5	15
100												3x5	11	4x5	13
												4x5	11	4x5	15
220												3x5	11	4x5	13
												4x5	11	4x5	15

Ripple Current (mA, rms) at 105°C 120Hz

Radial