SS Series 5 mm 85℃

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, camera, car radio, mini-audio sets, OA related equipment and other industrial and commercial applications.
- ◆ For detail specifications, please refer to Engineering Bulletin No. E108

Specifications

Item	Performance Characteristics
Operating Temperature Range	-40 to +85℃
Rate Voltage Range	4 to 50 VDC
Capacitance Range	0.1 to 220 μF
Capacitance Tolerance	±20% (120Hz, +20℃)
Leakage Current(+20℃, max)	1≦0.01 CV or 3 (μA) After 1 minute, whichever is greater measured with rated working voltage applied.
Dissipation Factor(tan δ)	Working Voltage (VDC): 4 / 6.3 / 10 / 16 / 25 / 35 / 50 D.F. (%)max: 35 / 24 / 20 / 16 / 14 / 12 / 10 (+20℃,at 120Hz)
Low Temperature Characteristics (120Hz)	Impedance ratio max. Working Voltage (VDC): 4 / 6.3 / 10 / 16 / 25 / 35 / 50 Z-25℃ / Z+20℃: 7 / 4 / 3 / 2 / 2 / 2 / 2 Z-40℃ / Z+20℃: 15 / 8 / 6 / 4 / 4 / 3 / 3
Load Life	Test conditions Duration time :1000 Hrs Ambient temperature :+85℃ Applied voltage :Rated DC working voltage After test requirements at +20℃ 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℃ Applied voltage :None After test requirements at +20℃ : 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

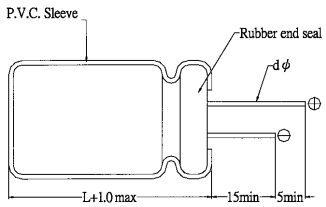
CAP(μF) \ Hz		60(50)	120	1K	10K≦
Multiplier	0.1~47	0.8	1	1.30	1.50
	100~200	0.8	1	1.15	1.20

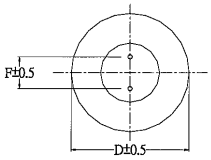
Multiplier for Ripple Current vs. Temperature

Temperature℃	45	60	70	85
Multiplier	1.80	1.50	1.30	1.00

CapXon SS Series

Diagram of Dimension: (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

Case Size

ϕDxL(mm)

WV(SV) / μF	4 (5)	6.3 (8)	10 (13)	16 (20)	25 (32)	35 (44)	50 (63)
0.1	→	→	→	→	→	→	3x5
0.22	→	→	→	→	→	→	3x5
0.33	→	→	→	→	→	→	3x5
0.47	→	→	→	→	→	→	3x5
1	→	→	→	→	→	→	3x5
2.2	→	→	→	→	→	3x5	3x5
3.3	→	→	→	→	3x5	3x5	4x5
4.7	→	→	→	3x5	3x5	4x5	5x5
10	→	3x5	3x5	3x5	4x5	5x5	6.3x5
22	3x5	3x5	4x5	4x5	6.3x5	6.3x5	6.3x5
33	3x5	4x5	5x5	5x5	6.3x5	—	—
47	4x5	5x5	6.3x5	6.3x5	6.3x5	—	—
100	5x5	6.3x5	6.3x5	6.3x5	—	—	—
220	6.3x5	6.3x5	8x5	—	—	—	—

Maximum Ripple Current

(mA, rms, 120Hz at 85℃)

WV(SV) / μF	4 (5)	6.3 (8)	10 (13)	16 (20)	25 (32)	35 (44)	50 (63)
0.1	→	→	→	→	→	→	1.0
0.22	→	→	→	→	→	→	2.0
0.33	→	→	→	→	→	→	2.8
0.47	→	→	→	→	→	→	4.0
1	→	→	→	→	→	→	8.0
2.2	→	→	→	→	→	8.4	10
3.3	→	→	→	→	10	10	17
4.7	→	→	→	10	12	18	20
10	→	15	28	18	27	29	30
22	19	21	33	35	42	46	48
33	28	37	39	42	52	—	—
47	33	38	46	58	62	—	—
100	38	60	76	86	—	—	—
220	60	90	90	—	—	—	—