

CapXon ST Series

ST Series 5 mm 105

Features

5.0+1 mm max height

Load life 105 , 1000 hrs assured

For detail specifications, please refer to Engineering Bulletin No. E112



Specifications

Item	Performance Characteristics							
Operating Temperature Range	-40 to +105							
Rate Voltage Range	4 to 50 VDC							
Capacitance Range	0.1 to 100 μ F							
Capacitance Tolerance	\pm 20% (120Hz, +20)							
Leakage Current(+20 , max)	1 0.01 CV or 3 (μ A) After 2 minutes, whichever is greater measured with rated working voltage applied.							
Dissipation Factor($\tan \delta$)	Working Voltage (VDC)	4	6.3	10	16	25	35	50
	D.F. (%)max	37	28	24	20	16	14	12
	(+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	6	3	3	2	2	2	2
	Z-40 / Z+20	12	8	5	4	3	3	3
Load Life	Test conditions Duration time :1000 Hrs Ambient temperature :+105 Applied voltage :Rated DC working voltage After test requirements at +20 Capacitance change : \pm 20% of the initial measured value (4V : \pm 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 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

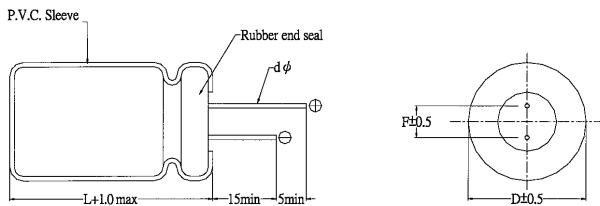
CAP(μ F) \ Hz	50(60)	120	1K	10K
Multiplier	0.1~47	0.8	1	1.30
	100	0.8	1	1.15
				1.20

Multiplier for Ripple Current vs. Temperature

Temperature	60	85	105
Multiplier	1.90	1.40	1.00

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Diagram of Dimension: (unit:mm)



D	3	4	5	6.3
F	1.0 ± 0.3	1.5 ± 0.5	2.0 ± 0.5	2.5 ± 0.5
d	0.4		0.45	

Case Size

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

Maximum Ripple Current

WV(SV) \ μF	4 (5)	6.3 (8)	10 (13)	16 (20)	25 (32)	35 (44)	50 (63)	(mA, rms, 120Hz at 85 °C)
0.1	—	—	—	—	—	—	—	1.0
0.22	—	—	—	—	—	—	—	2.6
0.33	—	—	—	—	—	—	—	3.2
0.47	—	—	—	—	—	—	—	3.8
1	—	—	—	—	—	—	—	6.2
2.2	—	—	—	—	—	7.5	11	—
3.3	—	—	—	—	—	11	14	—
4.7	—	—	—	—	13	15	19	—
10	—	—	—	18	23	25	30	—
22	22	22	27	30	38	48	—	—
33	30	30	35	40	48	—	—	—
47	36	36	46	50	—	—	—	—
100	60	60	—	—	—	—	—	—