FEATURES

- Reflow soldering is available
- Available for high density surface mounting
- High stability and reliability
- Life time: 85˚C, 2,000Hrs

SPECIFICATIONS

Item	Performance Characteristics
Operating Temperature Range	–40 to +85˚C
Rated Working Voltage Range	6.3 to 50V
Nominal Capacitance Range	0.1 to 1500μF
Capacitance Tolerance	±20% at 120Hz, +20˚C
Leakage Current	I ≤0.01CV or 3(μA) whichever is greater measure after 2 minutes application of rated working voltage at +20˚C

tanδ (120Hz, +20˚C)

Working Voltage (V)	6.3	10	16	25	35	50
tanδ (max.) Φ4~6.3	0.26	0.22	0.18	0.16	0.13	0.12
Φ8~10	0.35	0.26	0.20	0.16	0.14	0.12

Low Temperature Characteristics

Impedance ratio max. at 120Hz

Working Voltage (V)	6.3	10	16	25	35	50
Z-40˚C / Z+20˚C	8	8	4	4	3	3

High Temperature Loading

Test time : 2,000 hours
Test temperature : +85˚C
Test conditions : Rated DC working voltage

Post test requirements at +20˚C
Leakage current : ≤Initial specified value
Cap. change : within ±20% of the initial measured value
tanδ : ≤200% of the initial specified value

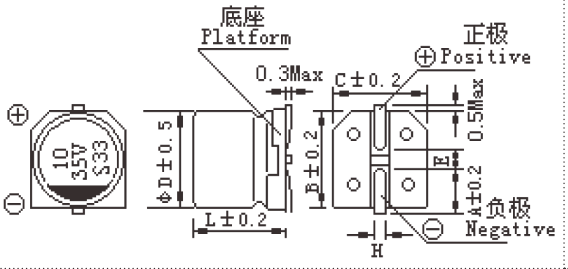
Shelf Life

At +85˚C no voltage applied after 1,000 hours and then being stabilized at +20˚C the capacitors shall meet the following limits
Leakage current : ≤200% of initial specified value
Cap. change : within ±20% of the initial measured value
tanδ : ≤200% of the initial specified value

Industrial Standard	JIS C – 5101-4 (IEC 60384-4)

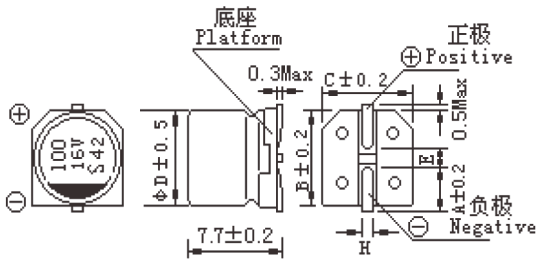
DIMENSIONS & MARKING

(Φ4～Φ6.3)

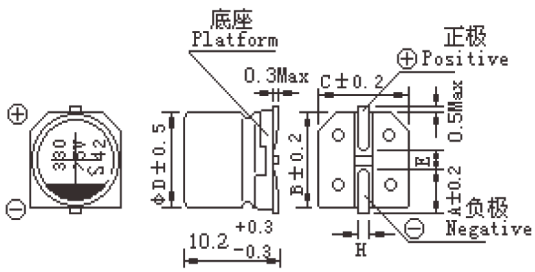


Size	Φ4 x 5.4	Φ5 x 5.4	Φ6.3 x 5.4	Φ6.3 x 7.7	Φ8 x 10.2	Φ10 x 10.2
A	1.8	2.1	2.4	2.5	2.9	3.2
B	4.3	5.3	6.6	6.6	8.3	10.3
C	4.3	5.3	6.6	6.6	8.3	10.3
E	1.0	1.3	2.2	2.2	3.1	4.5
L	5.4	5.4	5.4	7.7	10.2	10.2
H	0.5 ~ 0.9				0.9 ~ 1.1	

(Φ6.3×7.7)



(Φ8～Φ10×10.2)



SAMXON®
Aluminum Electrolytic Capacitors

+85°C, Surface Mount Type, General Purpose（贴片普通品）

PART NUMBER SYSTEM (EXAMPLE: 16V 470μF)

1	2 3	4 5 6	7	8 9	10	11 12	13 14
V	S1	477	M	1C	F	T2	TR

- Type (Taping)
- Case Length (10.2mm)
- Diameter (8mm)
- Voltage (16V)
- Tolerance (±20%)
- Capacitance (470μF)
- Series
- V-CHIP

STANDARD RATINGS

Voltage (Code)		6.3V (0J)		10V (1A)		16V (1C)		25V (1E)	
Cap. (μF)	Code	Case Size	Ripple Current	Case Size	Ripple Current	Case Size	Ripple Current	Case Size	Ripple Current
4.7	475							4 x 5.4	16
10	106					4 x 5.4	23	4 x 5.4	24
22	226	4 x 5.4	28	4 x 5.4	30	5 x 5.4	37	5 x 5.4	38
33	336	5 x 5.4	37	5 x 5.4	41	5 x 5.4	44	6.3 x 5.4	52
47	476	5 x 5.4	45	6.3 x 5.4	52	5 x 5.4	48	6.3 x 5.4	60
						6.3 x 5.4	58		
100	107	5 x 5.4	50	6.3 x 5.4	76	6.3 x 5.4	86	6.3 x 7.7	130
		6.3 x 5.4	70						
220	227	6.3 x 5.4	95	6.3 x 7.7	150	6.3 x 7.7	150	8 x 10.2	232
330	337	6.3 x 7.7	150	8 x 10.2	240	8 x 10.2	270	10 x 10.2	305
470	477	8 x 10.2	265	8 x 10.2	290	8 x 10.2	280	10 x 10.2	393
						10 x 10.2	330		
1000	108	10 x 10.2	400	10 x 10.2	454				
1500	158	10 x 10.2	489						

Maximum Allowable Ripple Current (mA rms) at 85°C 120Hz　　Case Size ΦD x L (mm)

Voltage (Code)		35V (1V)		50V (1H)	
Cap. (μF)	Code	Case Size	Ripple Current	Case Size	Ripple Current
0.1	104			4 x 5.4	1.0
0.22	224			4 x 5.4	2.0
0.33	334			4 x 5.4	2.8
0.47	474			4 x 5.4	4.0
1	105			4 x 5.4	8.4
2.2	225			4 x 5.4	13
3.3	335	4 x 5.4	18	4 x 5.4	17
4.7	475	4 x 5.4	20	5 x 5.4	20
10	106	5 x 5.4	29	6.3 x 5.4	33
22	226	6.3 x 5.4	46	6.3 x 5.4	43
33	336	6.3 x 5.4	53	6.3 x 7.7	85
47	476	6.3 x 5.4	55	6.3 x 7.7	90
		6.3 x 7.7	70	8 x 10.2	140
100	107	6.3 x 7.7	80	8 x 10.2	145
		8 x 10.2	175	10 x 10.2	195
220	227	8 x 10.2	185	10 x 10.2	415
		10 x 10.2	265		
330	337	10 x 10.2	324		
470	477	10 x 10.2	395		

Maximum Allowable Ripple Current (mA rms) at 85°C 120Hz　　Case Size ΦD x L (mm)

Specifications are subject to change without notice. Should a safety or technical concern arise regarding the product, please be sure to contact our sales offices or agents immediately.