FEATURES

- Life time: 105˚C, 2,000Hrs
- Reflow soldering is available
- Available for high density surface mounting
- High stability and reliability
- Low impedance

SPECIFICATIONS

Item	Performance Characteristics
Operating Temperature Range	–55 to +105˚C
Rated Working Voltage Range	6.3 to 100V
Nominal Capacitance Range	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	63	80	100
tanδ (max.)	0.22	0.19	0.16	0.14	0.12	0.10	0.08	0.08	0.08

Low Temperature Characteristics

Impedance ratio max. at 120Hz

Working Voltage (V)	6.3	10	16	25	35	50	63	80	100
Z-25˚C / Z+20˚C	2	2	2	2	2	2	2	2	2
Z-40˚C / Z+20˚C	3	3	3	3	3	3	3	3	3
Z-55˚C / Z+20˚C	4	4	4	3	3	3	3	3	3

High Temperature Loading

Test time : 2,000 hours
Test temperature : +105˚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 (≤16V:within ±25%)
tanδ : ≤200% of the initial specified value

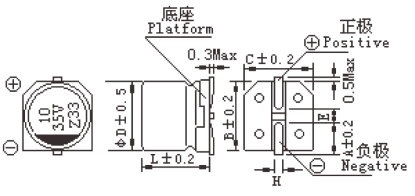
Shelf Life

At +105˚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 : ≤120% of the initial specified value

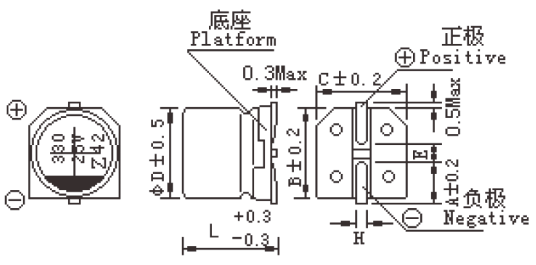
Industrial Standard: JIS C – 5101-4 (IEC 60384-4)

DIMENSIONS & MARKING

(Φ4～Φ6.3)



(Φ6.3 X 7.7 / Φ8 ~ Φ10 X 10.2)



Size	Φ4 x 5.4	Φ5 x 5.4	Φ6.3 x 5.4	Φ6.3 x 7.7	Φ8 x 6.2	Φ8 x 10.2	Φ10 x 10.2
A	1.8	2.2	2.6	2.6	2.9	2.9	3.3
B	4.3	5.3	6.6	6.6	8.3	8.3	10.3
C	4.3	5.3	6.6	6.6	8.3	8.3	10.3
L	5.4	5.4	5.4	7.7	6.2	10.2	10.2
H	0.5 ~ 0.9				0.9 ~ 1.1		

SAMXON®
Aluminum Electrolytic Capacitors

+105˚C, Surface Mount Type, Low Impedance（低阻抗贴片品）

PART NUMBER SYSTEM (EXAMPLE: 25V 470μF)

1	2 3	4 5 6	7	8 9	10	11 12	13 14
V	Z2	477	M	1E	G	T2	TR

Type (Taping)
Case Length (10.2mm)
Diameter (10mm)
Voltage (25V)
Tolerance (±20%)
Capacitance (470μF)
Series
V-CHIP

STANDARD RATINGS

Voltage (Code)		6.3V (0J)			10V (1A)			16V (1C)			25V (1E)			35V (1V)		
Cap. (μF)	Code	Case Size	Impedance	Ripple Current	Case Size	Impedance	Ripple Current	Case Size	Impedance	Ripple Current	Case Size	Impedance	Ripple Current	Case Size	Impedance	Ripple Current
4.7	475										4 x 5.4	2.2	80	4 x 5.4	2.2	80
10	106							4 x 5.4	2.2	80	4 x 5.4	2.2	80	5 x 5.4	1.2	150
22	226	4 x 5.4	2.2	80	4 x 5.4	2.2	80	5 x 5.4	1.2	150	6.3 x 5.4	0.58	230	6.3 x 5.4	0.58	230
33	336	5 x 5.4	1.2	150	5 x 5.4	1.2	150	6.3 x 5.4	0.58	230	6.3 x 5.4	0.58	230	6.3 x 5.4	0.58	230
47	476	5 x 5.4	1.2	150	6.3 x 5.4	0.58	230	6.3 x 5.4	0.58	230	6.3 x 7.7	0.34	280	6.3 x 7.7	0.34	280
100	107	6.3 x 5.4	0.58	230	6.3 x 7.7	0.34	280	6.3 x 5.4	0.52	230	6.3 x 7.7	0.34	280	8 x 10.2	0.17	450
								6.3 x 7.7	0.34	280	8 x 6.2	0.26	300			
150	157	6.3 x 5.4	0.58	230	6.3 x 7.7	0.34	280	6.3 x 7.7	0.34	280	8 x 10.2	0.17	450	10 x 10.2	0.1	670
220	227	6.3 x 5.4	0.58	243	6.3 x 7.7	0.34	280	6.3 x 7.7	0.34	384	8 x 10.2	0.17	450	8 x 10.2	0.17	587
		6.3 x 7.7	0.34	280				8 x 10.2	0.17	450				10 x 10.2	0.1	670
330	337	6.3 x 7.7	0.34	280	8 x 10.2	0.17	450	8 x 10.2	0.17	450	10 x 10.2	0.1	670	10 x 10.2	0.1	670
470	477	8 x 10.2	0.17	450	8 x 10.2	0.17	450	8 x 10.2	0.17	450	10 x 10.2	0.1	670			
								10 x 10.2	0.1	670						
1000	108	8 x 10.2	0.17	450	10 x 10.2	0.1	670	10 x 10.2	0.1	670						
		10 x 10.2	0.1	670												
1500	158	10 x 10.2	0.1	670												

Maximum Allowable Ripple Current (mA rms) at 105˚C 100kHz
Maximum ESR (Ω) at 20˚C 100kHz
Case Size ΦD x L (mm)

Voltage (Code)		50V (1H)			63V (1J)			80V(1K)			100V (2A)		
Cap. (μF)	Code	Case Size	Impedance	Ripple Current	Case Size	Impedance	Ripple Current	Case Size	Impedance	Ripple Current	Case Size	Impedance	Ripple Current
1	105	4 x 5.4	4.5	60									
2.2	225	4 x 5.4	4.5	60									
3.3	335	4 x 5.4	4.5	60				5 x 5.4	5	25			
4.7	475	5 x 5.4	3.5	85	5 x 5.4	3	50	6.3 x 5.4	3	40			
10	106	6.3 x 5.4	1.8	165	6.3 x 5.4	1.5	80	6.3 x 7.7	2.4	60			
					6.3 x 7.7	1.2	120						
22	226	6.3 x 7.7	1.6	185	6.3 x 7.7	1.2	120	8 x 10.2	1.3	130	8 x 10.2	1.3	130
					8 x 6.2	1.2	120						
33	336	6.3 x 7.7	1.6	185	8 x 10.2	0.65	250	8 x 10.2	1.3	130	10 x 10.2	0.7	200
47	476	8 x 10.2	0.4	300	8 x 10.2	0.65	250	10 x 10.2	0.7	200			
		10 x 10.2	0.3	342									
68	686	10 x 10.2	0.3	342	8 x 10.2	0.65	250						
100	107	10 x 10.2	0.22	670	10 x 10.2	0.35	400						
150	157	10 x 10.2	0.2	670									
220	227	10 x 10.2	0.18	670									

Maximum Allowable Ripple Current (mA rms) at 105˚C 100kHz
Maximum ESR (Ω) at 20˚C 100kHz)
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.