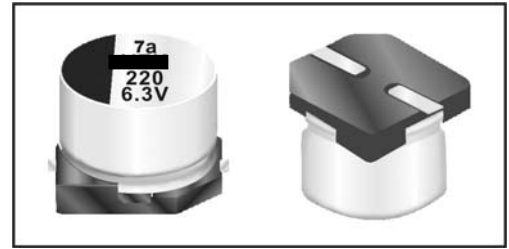


Features:

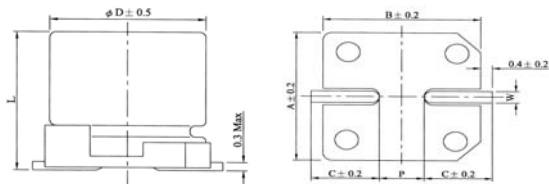
- 4 ~ 10 φ, 105°C, 2,000 ~ 5,000 hours assured
- Designed for surface mounting on high density PC board.
- RoHS Compliance



SPECIFICATIONS

Items	Performance							
Operating Temperature Range	-55°C ~ +105°C							
Capacitance Tolerance	±20% (at 120Hz, 20°C)							
Leakage Current (at 20°C)	I = 0.01CV or 3 (μA) whichever is greater (after 2 minutes) Where, C= rated capacitance in μF. V = rated DC working voltage in V.							
Dissipation Factor (Tan δ at 120Hz, 20°C)	Rated Voltage	6.3	10	16	25	35	50	
	4 ~ 6.3 φ	0.32	0.28	0.24	0.18	0.15	0.14	
	8 ~ 10 φ	0.30	0.26	0.22	0.16	0.13	0.12	
Low Temperature Characteristics (at 120Hz)	Impedance ratio shall not exceed the values given in the table below.							
	Rated Voltage	6.3	10	16	25	35	50	
	Impedance Ratio	Z(-25°C)/Z(+20°C)	4	3	2	2	2	2
Load Life Test	Test Time		2,000 Hrs(4 ~ 6.3 φ)			5,000 Hrs(8 ~ 10 φ)		
	Capacitance Change	6.3V	Within ±30% of initial value			Within ±30% of initial value		
		10 ~ 16V	Within ±25% of initial value			Within ±30% of initial value		
		25 ~ 50V	Within ±20% of initial value			Within ±30% of initial value		
	Dissipation Factor	6.3 ~ 16V	Less than 300% of specified value			Less than 300% of specified value		
		25 ~ 50V	Less than 200% of specified value			Less than 300% of specified value		
Leakage Current		Within specified value			Within specified value			
* The above specifications shall be satisfied when the capacitors are restored to 20°C after the rated voltage applied for 2,000/5,000 hrs at 105°C.								
Shelf Life Test	Test time: 1,000 hrs; other items are the same as those for the load life test.							
Ripple Current & Frequency Multipliers	V.DC(V)		Freq.(Hz)		50, 60	120	1K	10K up
	Under 16				0.8	1.0	1.15	1.25
	25 ~ 35				0.8	1.0	1.25	1.40
	50 ~ 63				0.8	1.0	1.35	1.50
	100				0.7	1.0	1.35	1.50
Standards	Satisfies Characteristic W of JIS C 5101-1, -18							

DIAGRAM OF DIMENSIONS



LEAD SPACING AND DIAMETER

Unit: mm

φD	L	A	B	C	W	P±0.2
4	5.7±0.3	4.3	4.3	2.0	0.5 to 0.8	1.0
5	5.7±0.3	5.3	5.3	2.3	0.5 to 0.8	1.5
6.3	5.7±0.3	6.3	6.3	2.7	0.5 to 0.8	2.0
8	10±0.5	8.4	8.4	3.0	0.7 to 1.1	3.1
10	10±0.5	10.4	10.4	3.3	0.7 to 1.1	4.7

DIMENSION & PERMISSIBLE RIPPLE CURRENT

Dimension: φD × L(mm)

Ripple Current: mA/rms at 120 Hz, 105°C

μF	V.DC Content	6.3V (0J)		10V (1A)		16V (1C)		25V (1E)		35V (1V)		50V (1H)	
		φD×L	mA	φD×L	mA	φD×L	mA	φD×L	mA	φD×L	mA	φD×L	mA
0.1	0R1											4×5.7	2
0.22	R22											4×5.7	3
0.33	R33											4×5.7	4
0.47	R47											4×5.7	5
1	010											4×5.7	10
2.2	2R2											4×5.7	16
3.3	3R3											4×5.7	18
4.7	4R7					4×5.7	13	4×5.7	13	4×5.7	13	5×5.7	22
10	100			4×5.7	13	4×5.7	16	5×5.7	23	5×5.7	25	6.3×5.7	30
22	220	4×5.7	13	5×5.7	30	5×5.7	30	6.3×5.7	38	6.3×5.7	50	8×10	178
33	330	5×5.7	30	5×5.7	30	6.3×5.7	40	6.3×5.7	48	8×10	178	8×10	178
47	470	5×5.7	36	6.3×5.7	43	6.3×5.7	50	8×10	178	8×10	178	8×10	178
100	101	6.3×5.7	61	8×10	178	8×10	178	8×10	178	10×10	324	10×10	160
220	221	8×10	178	8×10	178	8×10	178	8×10	240	10×10	324		
330	331	8×10	178	10×10	324	10×10	324	10×10	324	10×10	324		
470	471	10×10	324	10×10	324	10×10	324						