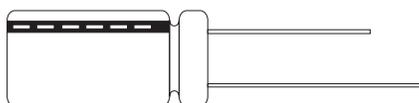


FEATURES

- 85°C, 2000 hours assured, standard miniature type with 7mm height for compact circuits.



SPECIFICATIONS

Item	Performance											
	SE					SEA						
Life	At 85°C 1000 Hrs					At 85°C 2000 Hrs						
Operating Temp.	-40°C ~ +85°C Range											
Capacitance Tolerance	± 20% (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 120 Hz, 20°C	Rated Voltage	4	6.3	10	16	25	35	50	63			
	Tan δ (max)	0.35	0.23	0.20	0.16	0.14	0.12	0.10	0.10			
Low Temperature Characteristics (at 120Hz)	Impedance ratio shall not exceed the values given in the table below											
	Rated Voltage	4	6.3	10	16	25	35	50	63			
	Impedance Ratio	Z(-25°C) / Z(+20°C)	7	4	3	3	2	2	2	2		
Load Life Test at 20°C (after rated voltage is applied at 85°C for 1000/2000 hours)	Test Time	1000 / 200 Hrs					Shelf Life Test at 20°C (after exposure to 85°C for 1000 hours with no voltage)					
	Capacitance Change	≤ ± 20%					Capacitance Change					≤ ± 20%
	Dissipation Factor	Less than 200% of specified value					Dissipation Factor					Less than 200% of specified value
	Leakage Current	Within specified value					Leakage Current					Within specified value
Ripple Current & Frequency Multipliers	Cap. (μF) \ Freq. (Hz)	60(50)	120	500	1K	10K up						
	Under 33	0.70	1.00	1.20	1.30	1.45						
	47 to 220	0.80	1.00	1.10	1.15	1.20						
Ripple Current & Temperature Multipliers	Temperature (°C)	Under 50	70	85								
	Multipliers	1.75	1.58	1.00								
Standards	Satisfies Characteristic W of JIS C 5141											

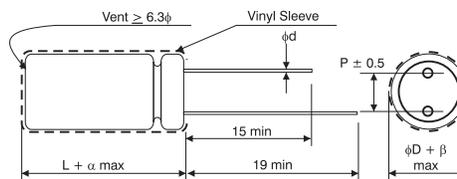
DIMENSIONS & PERMISSIBLE RIPPLE CURRENT

Dimension: φD×L(mm); Ripple Current: mA/RMS at 120Hz 85°C

VDC	μF Contents	4V(0G)		6.3V(0J)		10V(1A)		16V(1C)		25V(1E)		35V(1V)		50V(1H)		63V(1J)	
		φDXL	mA	φDXL	mA	φDXL	mA	φDXL	mA	φDXL	mA	φDXL	mA	φDXL	mA	φDXL	mA
0.1	0R1													4 x 7	2	4 x 7	2
0.22	R22													4 x 7	3	4 x 7	3
0.33	R33													4 x 7	4	4 x 7	4.4
0.47	R47													4 x 7	5	4 x 7	7.9
1	10													4 x 7	10	4 x 7	11
2.2	2R2													4 x 7	15	4 x 7	17
3.3	3R3													4 x 7	18	4 x 7	21
4.7	4R7											4 x 7	22	5 x 7	23	5 x 7	26
10	100							4 x 7	25	4 x 7	26	5 x 7	30	6.3 x 7	34	6.3 x 7	40
22	220			4 x 7	31	4 x 7	32	5 x 7	39	5 x 7	41	6.3 x 7	47	6.3 x 7	53	8 x 7	70
33	330	4 x 7	32	4 x 7	32	4 x 7	35	5 x 7	43	6.3 x 7	53	8 x 7	71	8 x 7	76		
47	470	4 x 7	38	4 x 7	38	5 x 7	47	6.3 x 7	59	6.3 x 7	65	8 x 7	83	8 x 7	85		
100	101	5 x 7	61	6.3 x 7	75	6.3 x 7	80	6.3 x 7	90	8 x 7	125						
220	221	6.3 x 7	90	6.3 x 7	99	8 x 7	140	8 x 7	146								
330	331	8 x 7	129	8 x 7	156												
470	471	8 x 7	154														

LEAD SPACING AND DIAMETER

φ D	4	5	6.3	8
P	1.5	2.0	2.5	3.5
φ d	0.45	0.5		
α	1.0			
β	0.5			



PART NUMBER EXAMPLE

SE 0R1 M 1H SA 040 070