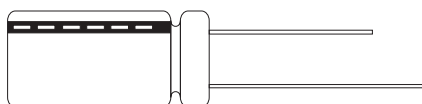


FEATURES

- 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			
Z(-40°C) / Z(+20°C)		14	10	8	6	4	4	4	4				
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)					Test Time	1000 Hrs
	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												

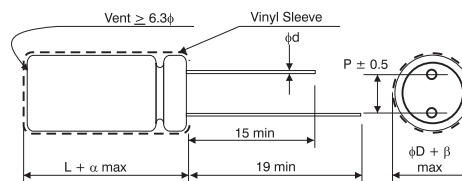
DIMENSIONS & PERMISSIBLE RIPPLE CURRENT

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