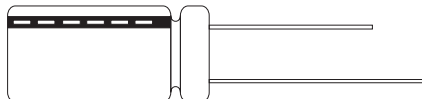


FEATURES

- 105°C, 1000 hours assured.
- High temperature range, with 7mm height.



SPECIFICATIONS

Item	Performance											
Operating Temperature Range	-40° ~ + 105°C											
Capacitance Tolerance	± 20% (120Hz, 20°C)											
Leakage Current (at 20°C)	I = 0.01CV or 0.3 (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	0.25	0.20	0.17	0.15	0.13	0.10	0.10			
Low Temperature Characteristics (at 120Hz)	Rated Voltage			4	6.3	10	16	25	35	50	63	Impedance ratio shall not exceed the values given in the table.
	Impedance Ratio	Z(-25°C)/Z(+20°C)			7	6	4	3	2	2	2	
		Z(-40°C)/Z(+20°C)			15	12	8	6	4	4	4	
Load Life Test	Test Time	1000 Hrs										The specification shall be satisfied when the capacitors are restored to 20°C after rated voltage applied for 1000hrs at 105°C.
	Capacitance Change	≤ ± 20%										
	Dissipation Factor	Less than 200% of specific value										
	Leakage Current	Within specified values										
Shelf Life Test	Test Time	1000 Hrs										The specification shall be satisfied when the capacitors are restored to 20°C after exposing them for 1000 hrs at 105°C without voltage applied.
	Capacitance Change	± 20%										
	Dissipation Factor	Less than 200% of specific value										
	Leakage Current	Within specified values										
Ripple Current & Frequency Multipliers	Freq. (Hz) Cap. (F)	60 (50)	120	500	1K	10K up						
		Under 33	0.75	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) Multipliers	Under 50	70	85	105							
		1.95	1.65	1.27	1.0							
Standards	Satisfies Characteristic W of JIS C 5141											

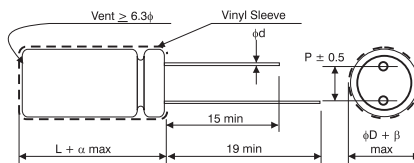
DIMENSIONS & PERMISSIBLE RIPPLE CURRENT

Dimension: φD×L(mm); Ripple Current: mA/RMS at 120Hz 105°C

VDC	Code	4V (0G)		6.3V (0J)		10V (1A)		16V (1C)		25V (1E)		35V (1V)		50V (1H)		63V (1J)	
		D x L	mA	D x L	mA	D x L	mA	D x L	mA	D x L	mA	D x L	mA	D x L	mA	D x L	mA
0.10	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	010													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	4 x 7	22	4 x 7 5 x 7	22 23	5 x 7	26
10	100							4 x 7	25	4 x 7	26	4 x 7 5 x 7	26 30	5 x 7 6.3 x 7	31 34	6.3 x 7	40
22	220			4 x 7	31	4 x 7	32	4 x 7 5 x 7	33 39	4 x 7 5 x 7	34 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	6.3 x 7 8 x 7	60 71	8 x 7	76		
47	470	4 x 7	38	4 x 7 5 x 7	39 47	6.3 x 7 5 x 7	49 59	6.3 x 7	65	8 x 7	83	8 x 7	85				
100	101	5 x 7	61	6.3 x 7 5 x 7	75 63	6.3 x 7	80	6.3 x 7	90	6.3 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	156	8 x 7	156												

LEAD SPACING AND DIAMETER

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



PART NUMBER EXAMPLE

SG 0R1 M 1H SA 040 070