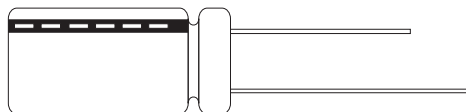


FEATURES

- 105°C, 1000 hours assured.
- Very Low leakage current.
- Use in high temperature industrial equipment.



SPECIFICATIONS

Item	Performance										
Operating Temperature Range	-40°C ~ +105°C										
Capacitance Tolerance	± 20% (120Hz, 20°C)										
Leakage Current (at 20°C)	I = 0.002CV or 0.4 (A) whichever is greater (after 2 minutes). Where, C = rated capacitance in F. V=rated DC working voltage in V.										
Dissipation Factor Tan δ at 120 Hz, 20°C	Rated Voltage	6.3	10	16	25	35	50	63	100		
	Tan δ (max)	0.24	0.21	0.16	0.14	0.12	0.10	0.09	0.08		
	When the capacitance exceed 1000 F 0.02 shall be added every 1000 F. Impedance ratio shall not exceed the values given in the table below.										
Low Temperature Characteristics (at 120Hz)	Rated Voltage		6.3	10	16	25	35	50	63	100	
	Impedance Ratio	Z(-25°C)/Z(+20°C)	4	3	3	2	2	2	2	2	
		Z(-40°C)/Z(+20°C)	8	6	6	4	4	3	3	3	
Load Life Test (after application of the rated voltage applied for 1000 hours at 105°C)	Test Time	1000 Hrs				Shelf Life Test (at 20°C after rated voltage applied for 1000 hours at 105°C without voltage applied)				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 100	0.75	1.00	1.35	1.55	1.90				
		220 to 1000	0.83	1.00	1.23	1.32	1.45				
		2200 up above	0.90	1.00	1.12	1.10	1.12				
Ripple Current & Temperature Multipliers	Temperature (°C)	Under 50	70	85	105						
	Multipliers	2.20	1.75	1.58	1.00						
Standards	Satisfies Characteristic W of JIS C 5141										

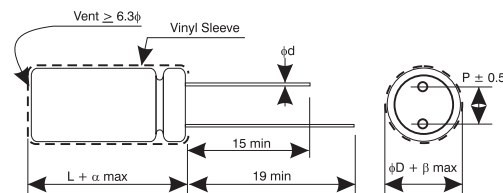
DIMENSIONS AND PERMISSIBLE RIPPLE CURRENT

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

μF	Code	6.3V(0J)		10V(1A)		16V(1C)		25V(1E)		35V(1H)		50V(1H)		63V(1J)		100V(2A)	
		φDXL	mA	φDXL	mA	φDXL	mA	φDXL	mA	φDXL	mA	φDXL	mA	φDXL	mA	φDXL	mA
0.1	0R1											5 x 11	1.3			5 x 11	2.6
0.22	R22											5 x 11	2.9			5 x 11	5.8
0.33	R33											5 x 11	4.4			5 x 11	8
0.47	R47											5 x 11	7			5 x 11	10
1	010											5 x 11	13			5 x 11	15
2.2	2R2											5 x 11	20			5 x 11	23
3.3	3R3											5 x 11	25			5 x 11	29
4.7	4R7							5 x 11	26	5 x 11	28	5 x 11	30	5 x 11	32	5 x 11	34
10	100					5 x 11	35	5 x 11	38	5 x 11	41	5 x 11	46	5 x 11	50	6.3 x 11	56
22	220			5 x 11	49	5 x 11	54	5 x 11	57	5 x 11	61	5 x 11	68	6.3 x 11	82	8 x 11.5	96
33	330	5 x 11	54	5 x 11	60	5 x 11	64	5 x 11	69	5 x 11	75	6.3 x 11	90	6.3 x 11	100	10 x 12.5	140
47	470	5 x 11	65	5 x 11	70	5 x 11	99	5 x 11	82	6.3 x 11	100	6.3 x 11	110	8 x 11.5	135	10 x 16	180
100	101	5 x 11	95	5 x 11	105	6.3 x 11	125	6.3 x 11	135	8 x 11.5	170	8 x 11.5	180	10 x 12.5	225	13 x 20	320
220	221	6.3 x 11	160	6.3 x 11	175	8 x 11.5	215	8 x 11.5	230	10 x 12.5	300	10 x 16	345	10 x 20	400	16 x 25	570
330	331	6.3 x 11	195	8 x 11.5	245	8 x 11.5	260	10 x 12.5	335	10 x 16	400	10 x 20	460	13 x 20	540	16 x 25	700
470	471	8 x 11.5	270	8 x 11.5	290	10 x 12.5	370	10 x 16	440	10 x 20	520	13 x 20	610	13 x 25	700	16 x 31.5	880
1000	102	10 x 12.5	460	10 x 16	550	10 x 20	640	13 x 20	770	13 x 25	920	16 x 25	1080	16 x 31.5	1210		
2200	222	13 x 20	810	13 x 20	860	13 x 25	1000	16 x 25	1170	16 x 31.5	1340	18 x 35.5	1530				
3300	332	13 x 20	960	13 x 25	1100	16 x 25	1300	16 x 31.5	1460	18 x 35.5	1650						
4700	472	16 x 25	1330	16 x 25	1400	16 x 31.5	1600	18 x 35.5	1780	18 x 40	1900						

LEAD SPACING AND DIAMETER

d	5	6.3	8	10	13	16	18
P	2.0	2.5	3.5	5.0	5.0	7.5	7.5
d	0.5		0.6		0.8		
	1.0			1.5			
	0.5						



PART NUMBER EXAMPLE

RA 220 M 1C BK 050 110