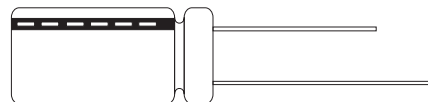


FEATURES

- 105°C, 2000 hours assured, standard non-polarized series.
- Suitable for use in circuits which have a reversed or unknown polarity.
- Bi-Polar types available (RB) (RBS) (RBL).



SPECIFICATIONS

Item	Performance																
Operating Temperature Range	40° ~ + 105°C																
Capacitance Tolerance	± 20% (120Hz, 20°C)																
Leakage Current (at 20°C)	Rated Voltage	≤ 100V				≥ 100V								Where, C = rated capacitance in μF, V = rated DC working voltage in V.			
	Time	After 2 minutes				After 5 minutes											
	Leakage Current	I=0.03CV or 4 (μA) whichever is greater				CV 1000 I=0.03CV +15 (μA)				CV 1000 I=0.02CV +25 (μA)							
Dissipation Factor Tan δ at 120 Hz, 20°C	Rated Voltage	6.3	10	16	25	35	50	63	100	160	200	250					
	Tan δ (max)	0.25	0.22	0.18	0.16	0.14	0.12	0.10	0.09	0.15	0.15	0.20					
When the capacitance exceeds 1000 μF, 0.02 shall be added every 1000 μF																	
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	63	100	160	200	250					
	Impedance Ratio	Z(-25°C) / Z(+20°C)	4	3	3	2	2	2	2	2	2	2	3				
Z(-40°C) / Z(+20°C)		8	6	6	4	4	3	3	3	4	4	6					
Load Life Test (after application of the rated voltage at 105°C, the polarity inverted every 250 hours)	Test Time	2000 Hrs				Shelf Life Test (at 20°C after rated voltage applied for 500 hours at 105°C without voltage applied)				Test Time				500 Hrs			
	Capacitance Change	≤ ± 20%								Capacitance Change				≤ ± 20%			
	Dissipation Factor	Less than 200% of specific value				Dissipation Factor				Less than 200% of specific value							
	Leakage Current	Within specified values				Leakage Current				Within specified values							
	Standards	Satisfies Characteristic W of JIS C 5141															

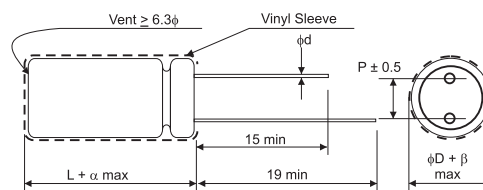
DIMENSIONS & PERMISSIBLE RIPPLE CURRENT

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

μF	Code	6.3V(0J)		10V(1A)		16V(1C)		25V(1E)		35V(1V)		50V(1H)		63V(1J)H		100V(2A)		160V(2C)		200V(2D)		250V(2E)		
		φDXL	mA	φDXL	mA	φDXL	mA	φDXL	mA	φDXL	mA	φDXL	mA	φDXL	mA	φDXL	mA	φDXL	mA	φDXL	mA	φDXL	mA	
0.1	0R1											5 x 11	4	5 x 11	5	5 x 11	5							
0.22	R22											5 x 11	5	5 x 11	6	5 x 11	6							
0.33	R33											5 x 11	6	5 x 11	6	5 x 11	7							
0.47	R47											5 x 11	7	5 x 11	8	5 x 11	8	5 x 11	8	6.3 x 11	9	6.3 x 11	10	
1	010											5 x 11	10	5 x 11	11	5 x 11	12	6.3 x 11	11	8 x 11.5	12	8 x 11.5	13	
2.2	2R2											5 x 11	15	5 x 11	16	6.3 x 11	20	8 x 11.5	22	10 x 12.5	26			
3.3	3R3											5 x 11	18	5 x 11	20	6.3 x 11	25	8 x 11.5	26	10 x 12.5	30	10 x 16	37	
4.7	4R7										5 x 11	21	5 x 11	22	6.3 x 11	24	6.3 x 11	30	10 x 12.5	31	10 x 16	37	10 x 20	50
10	100					5 x 11	27	5 x 11	27	5 x 11	30	6 x 11.5	37	6.3 x 11	40	8 x 11.5	50	10 x 16	60	10 x 20	66	10 x 20	79	
22	220	5 x 11	34	5 x 11	34	5 x 11	40	6.3 x 11	46	6.3 x 11.5	51	8 x 11.5	63	8 x 11.5	68	10 x 16	97	13 x 20	117	13 x 20	117	13 x 25	138	
33	330	5 x 11	45	5 x 11	45	5 x 11	49	6.3 x 11	56	8 x 11.5	72	8 x 11.5	77	10 x 12.5	98	10 x 20	140	13 x 20	143	13 x 25	158	16 x 25	169	
47	470	5 x 11	54	5 x 11	54	6.3 x 11	67	6.3 x 11	67	8 x 11.5	86	10 x 12.5	105	10 x 16	130	13 x 20	170	16 x 25	188					
100	101	6.3 x 11	90	6.3 x 11	90	8 x 11.5	110	8 x 11.5	110	10 x 16	160	10 x 20	190	13 x 20	225	16 x 25	300							
220	221	8 x 11.5	150	8 x 11.5	150	10 x 12.5	195	10 x 16	215	13 x 20	390	13 x 25	340	16 x 25	405	16 x 35.5	510							
330	331	8 x 11.5	185	10 x 16	240	10 x 16	265	13 x 20	332	13 x 20	350	16 x 25	460	16 x 31.5	535									
470	471	10 x 16	260	10 x 16	290	10 x 20	345	13 x 25	380	13 x 25	465	16 x 31.5	590	18 x 35.5	680									
1000	102	10 x 20	460	13 x 20	510	13 x 25	605	16 x 25	670	16 x 35.5	805													
2200	222	13 x 25	829	16 x 25	940	16 x 31.5	1070	18 x 35.5	1140															

LEAD SPACING AND DIAMETER

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



PART NUMBER EXAMPLE

RN 010 M 2A BK 050 110