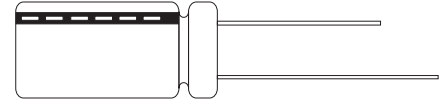


### FEATURES

- 85°C, 2000 hours assured, standard bi-polar series.
- Suitable for use in circuits which have a reversed or unknown polarity.
- RoHS Compliant
- See RNG for 105°C, SN for 7mm can, SSN for 5mm can.



### SPECIFICATIONS

Item	Performance														
Operating Temp.	-40° ~ +85°C														
Capacitance Tolerance	± 20% (120Hz, 20°C)														
Leakage Current (at 20°C)	Rated Voltage	≤ 100V					≥ 100V								
	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)					
	Where, C = rated capacitance in μF, 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	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 increase															
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	2		
		Z(-40°C)/Z(+20°C)	8	6	6	4	4	3	3	3	4	4	4		
Load Life Test at 20°C (after rated voltage is applied for 2000 hours at 85°C)	Test Time	2000 Hrs					Shelf Life Test at 20°C after rated voltage applied for 1000 hours at 85°C)					Test Time		1000 Hrs	
	Capacitance Change	≤ ± 20%										Capacitance Change		≤ ± 20%	
	Dissipation Factor	Less than 200% of specific value										Dissipation Factor		Less than 200% of specified value	
	Leakage Current	Within specified values										Leakage Current		Within specified value	
Standards	Satisfies Characteristic W of JIS C 5141														

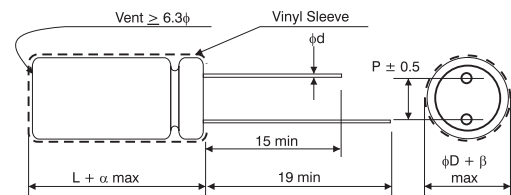
### DIMENSIONS & PERMISSABLE RIPPLE CURRENT

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

VDC F Code	6.3V(OJ)		10V(1A)		16V(1C)		25V(1E)		35V(1V)		50V(1H)		63V(1JH)		100V(2A)		160V(2C)		200V(2D)		250V(2E)		
	DXL	mA	DXL	mA	DXL	mA	DXL	mA	DXL	m	DXL	mA	DXL	m	DXL	m	DXL	m	DXL	m	DXL	m	
0.1	0R1										5 x 11	4	5 x 11	5	5 x 11	5							
0.22	R22										5 x 11	7	5 x 11	8	5 x 11	8							
0.33	R33										5 x 11	8	5 x 11	10	5 x 11	10							
0.47	R47										5 x 11	10	5 x 11	12	5 x 11	12	5 x 11	10	5 x 11	10	6.3 x 11	12	
1	010										5 x 11	15	5 x 11	18	5 x 11	23	6.3 x 11	14	8 x 11.5	16	8 x 11.5	16	
2.2	2R2										5 x 11	23	5 x 11	25	6.3 x 11	26	8 x 11.5	23	8 x 11.5	28	10 x 12.5	32	
3.3	3R3										5 x 11	28	5 x 11	31	6.3 x 11	32	8 x 11.5	33	10 x 12.5	33	10 x 16	46	
4.7	4R7								5 x 11	32	5 x 11	34	6.3 x 11	37	6.3 x 11	40	10 x 12.5	39	10 x 16	46	10 x 20	62	
10	100				5 x 11	40	5 x 11	42	5 x 11	46	6.3 x 11	55	6.3 x 11	60	8 x 11.5	66	10 x 16	75	10 x 20	83	10 x 20	99	
22	220	5 x 11	50	5 x 11	56	5 x 11	59	6.3 x 11	63	6.3 x 11	76	8 x 11.5	82	8 x 11.5	90	10 x 16	120	12.5 x 20	146	12.5 x 20	146	12.5 x 25	172
33	330	5 x 11	62	5 x 11	69	5 x 11	73	6.3 x 11	78	8 x 11.5	94	8 x 11.5	104	10 x 12.5	135	10 x 20	175	12.5 x 20	179	12.5 x 25	197	16 x 25	211
47	470	5 x 11	74	5 x 11	82	6.3 x 11	88	6.3 x 11	95	8 x 11.5	115	10 x 12.5	135	10 x 16	175	12.5 x 20	200	12.5 x 25	235				
100	101	6.3 x 11	108	6.3 x 11	120	8 x 11.5	149	8 x 11.5	155	10 x 16	202	10 x 20	229	12.5 x 20	270	16 x 25	315						
220	221	8 x 11.5	181	8 x 11.5	200	10 x 12.5	240	10 x 16	294	12.5 x 20	335	12.5 x 25	378	16 x 25	443	16 x 35.5	498						
330	331	8 x 11.5	236	10 x 16	308	10 x 16	330	12.5 x 20	384	12.5 x 20	429	16 x 25	496	16 x 31.5	653								
470	471	10 x 12.5	329	10 x 16	365	10 x 20	435	12.5 x 25	479	16 x 25	548	16 x 25	590	18 x 35.5	815								
1000	102	10 x 20	502	12.5 x 20	598	12.5 x 25	659	16 x 25	700	16 x 31.5	880	16 x 31.5	920										
2200	222	12.5 x 25	829	16 x 25	992	16 x 31.5	1114	18 x 35.5	1347														

### LEAD SPACING AND DIAMETER

D	5	6.3	8	10	12.5	16	18
P	2.0	2.5	3.5	5.0	5.0	7.5	7.5
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