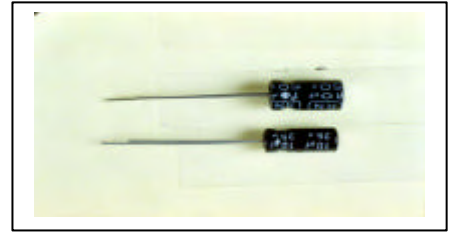


RN Series

Features
 Lifetime: 85, 1000hrs
 Non-polarized/Polarity reversing

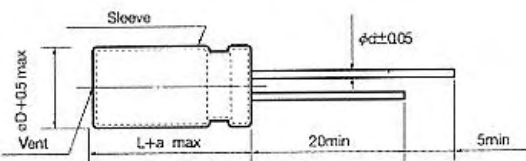
Recommended Applications
 Small crossover network
 Reversed polarity circuit
 Coupling



Specifications

Items	Characteristics													
Capacitance Tolerance	$\pm 20\%$ (M) (120Hz, 20)													
Rated Voltage Range (WV)	6.3~250 VDC													
Operating Temperature Range	-40 ~ +85													
Surge Voltage (V) (20)	WV	6.3	10	16	25	35	50	63	80	100	160	200	250	
	SV	8	13	20	32	44	63	79	100	125	200	250	300	
Leakage Current (Max) (20)	I = 0.03CV + 4 μ A (After voltage applied for 2 minutes) I = Leakage Current (μ A) C = Nominal Capacitance (μ F) V = Rated Voltage (V)													
	WV	6.3	10	16	25	35	50	63	80	100	160	200	250	
Dissipation Factor (Max) (tan) (120Hz, 20)	tan	0.24	0.20	0.17	0.15	0.15	0.15	0.10	0.10	0.10	0.20	0.20	0.20	
	When nominal capacitance is over 1000 μ F, tan shall be added 0.02 to the listed value with increase of every 1000 μ F.													
Low Temperature Stability Impedance Ratio (Max)	WV		6.3	10	16	25	35	50	63	80	100	160	200	250
	Z (120Hz)													
	Z(-25) / Z(20)		4	3	2	2	2	2	2	2	2	6	6	6
Z(-40) / Z(20)		8	6	4	4	3	3	3	3	3	12	12	12	
Load Life	After applying rated voltage for 1000 hours at 85 , the capacitor shall meet the following requirement. (The polarity shall be reversed every 250 hours)													
	Capacitance Change		Within $\pm 20\%$ of the initial value											
	Dissipation Factor		Not more than 200% of the specified value											
	Leakage Current		Not more than the specified value											
Shelf Life	After placed at 85 without voltage applied for 500 hours, the capacitor shall meet the same requirement as load life.													
Applicable standards	Refer to JIS C 5101													

Dimensions (mm)



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	0.5	0.6	0.6	0.6 (0.8)	0.8	0.8
a	1.0	1.0	1.0	1.0	2.0	2.0	2.0

() : L 30

Multiplier for Ripple Current

Frequency coefficient

Freq. (Hz)	50	120	1K	10K
WV (VDC)				
6.3~16	0.80	1.00	1.10	1.20
25~35	0.80	1.00	1.50	1.70
50~100	0.80	1.00	1.60	1.90
160~250	0.80	1.00	1.50	1.60

Temperature coefficient

Ambient Temperature ()	50	70	85
Coefficient	1.36	1.25	1.00

Case Size / Max Ripple Current

CASE SIZE (DxL(mm)) / MAX PERMISSIBLE RIPPLE CURRENT (RC(mArms) / 120Hz,85)

WV SPEC μF	6.3		10		16		25		35		50		63		
	DxL	RC	DxL	RC	DxL	RC	DxL	RC	DxL	RC	DxL	RC	DxL	RC	
0.47											5x11	5			
1											5x11	10	5x11	10	
2.2											5x11	20	5x11	20	
3.3											5x11	30	5x11	30	
4.7										5x11	30	5x11	30	6.3x11	35
10					5x11	40	5x11	40	5x11	40	6.3x11	45	6.3x11	55	
22			5x11	50	5x11	55	6.3x11	65	6.3x11	70	8x11	80	8x11	90	
33	5x11	60	5x11	65	5x11	70	6.3x11	80	8x11	100	8x11	105	10x12.5	135	
47	5x11	70	5x11	75	6.3x11	95	6.3x11	95	8x11	120	8x14	140	10x17	180	
100	6.3x11	115	6.3x11	125	8x11	160	8x11	160	10x17	230	10x20	265	13x20	320	
220	8x11	205	8x11	215	10x12.5	275	10x17	305	13x20	410	13x25	480	16x26	575	
330	8x11	265	10x15	345	10x17	375	13x20	450	13x20	505	16x26	650	16x32	750	
470	10x12.5	370	10x17	410	10x20	485	13x20	540	13x25	655	16x32	835	18x36	965	
1000	10x20	650	13x20	720	13x25	855	16x26	950	16x32	1140					
2200	13x25	1160	16x26	1280	16x32	1510	18x36	1620							
3300	16x26	1570	16x32	1690	18x36	1980									
4700	16x32	2020	18x36	2160											
6800	18x36	2600													

WV SPEC μF	80		100		160		200		250	
	DxL	RC	DxL	RC	DxL	RC	DxL	RC	DxL	RC
0.47			5x11	5	6.3x11	5				
1			5x11	10	6.3x11	15	6.3x11	15	8x11	15
2.2	5x11	30	6.3x11	25	8x11	20	8x11	20	10x12.5	25
3.3	6.3x11	35	6.3x11	35	10x12.5	30	10x12.5	30	10x12.5	30
4.7	6.3x11	40	6.3x11	40	10x12.5	35	10x15	40	10x17	40
10	8x11	65	8x11	70	10x17	55	13x20	70	13x20	70
22	10x15	105	10x17	135	13x25	105	13x25	120	16x26	135
33	10x17	160	13x20	220	16x26	165	16x26	165	16x32	180
47	10x20	215	13x20	240	16x26	200	16x32	220	16x36	230
100	13x25	385	16x26	425	18x36	360				
220	16x32	690	18x36	720						
330	18x36	860								