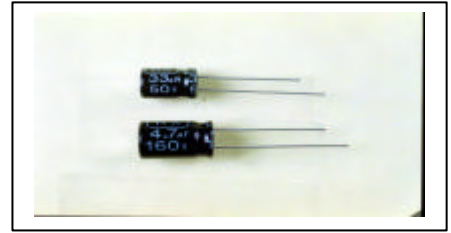


# RX Series

Features  
 Lifetime: 105, 1000hrs  
 Wide temperature range  
 for RN  
 Non-polarized/Polarity  
 reversing

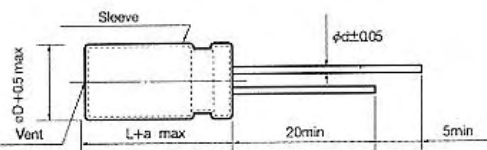
Recommended Applications  
 Small crossover network  
 Reversed polarity circuit  
 Coupling



## Specifications

Items	Characteristics													
Capacitance Tolerance	± 20% (M) (120Hz, 20 )													
Rated Voltage Range (WV)	6.3~250 VDC													
Operating Temperature Range	-40 ~ +105													
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 µA (After rated voltage applied for 2 minutes) I = Leakage Current (µA) C = Nominal Capacitance (µF) 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 µF, tan shall be added 0.02 to the listed value with increase of every 1000 µF.													
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 105 , the capacitor shall meet the following requirement. (The polarity shall be reversed every 250 hours)													
	Capacitance Change	Within ± 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 105 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	105
Coefficient	1.90	1.75	1.40	1.00



**Case Size / Max Ripple Current**

CASE SIZE ( DxL(mm) ) / MAX PERMISSIBLE RIPPLE CURRENT (RC(mArms) / 120Hz,105 )

WV	6.3		10		16		25		35		50		63	
SPEC μ F	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	25	5x11	25
4.7									5x11	25	5x11	25	6.3x11	30
10					5x11	35	5x11	35	5x11	35	6.3x11	40	6.3x11	50
22			5x11	45	5x11	50	6.3x11	55	6.3x11	60	8x11	70	8x11	80
33	5x11	55	5x11	55	5x11	60	6.3x11	70	8x11	85	8x11	90	10x12.5	115
47	5x11	60	5x11	65	6.3x11	85	6.3x11	85	8x11	105	8x14	120	10x17	155
100	6.3x11	100	6.3x11	110	8x11	140	8x11	140	10x17	195	10x20	225	13x20	275
220	8x11	175	8x11	185	10x12.5	235	10x17	260	13x20	350	13x25	410	16x26	490
330	8x11	225	10x15	295	10x17	320	13x20	385	13x20	430	16x26	555	16x32	640
470	10x12.5	315	10x17	350	10x20	415	13x20	460	13x25	560	16x32	710	18x36	820
1000	10x20	555	13x20	615	13x25	730	16x26	810	16x32	970				
2200	13x25	990	16x26	1090	16x32	1285	18x36	1380						
3300	16x26	1335	16x32	1440	18x36	1685								
4700	16x32	1720	18x36	1840										
6800	18x36	2210												

WV	80		100		160		200		250	
SPEC μ F	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	25	6.3x11	20	8x11	20	8x11	20	10x12.5	20
3.3	6.3x11	30	6.3x11	30	10x12.5	25	10x12.5	25	10x12.5	25
4.7	6.3x11	35	6.3x11	35	10x12.5	30	10x15	35	10x17	35
10	8x11	55	8x11	60	10x17	50	13x20	60	13x20	60
22	10x15	90	10x17	115	13x25	100	13x25	105	16x26	115
33	10x17	140	13x20	190	16x26	140	16x26	140	16x32	155
47	10x20	185	13x20	205	16x26	170	16x32	190	16x36	195
100	13x25	330	16x26	365	18x36	310				
220	16x32	590	18x36	615						
330	18x36	735								