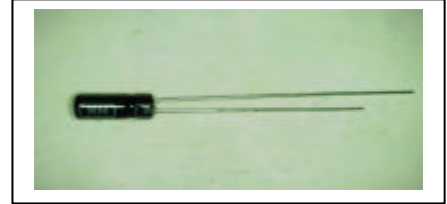


## SN Series

Features  
 Lifetime: 85, 1000hrs  
 Non-polarized/Polarity reversing  
 Low profile/Miniature  
 7mm height

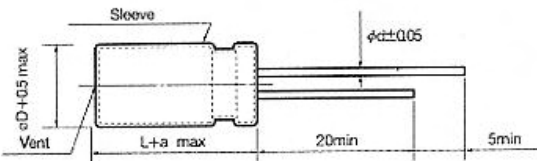
Recommended Applications  
 Reversed polarity circuit  
 Coupling



### Specifications

Items	Characteristics									
Capacitance Tolerance	$\pm 20\%$ (M) (120Hz, 20 )									
Rated Voltage Range (WV)	4~63 VDC									
Operating Temperature Range	-40 ~ +85									
Surge Voltage (V) (20 )	WV	4	6.3	10	16	25	35	50	63	
	SV	5	8	13	20	32	44	63	79	
Leakage Current (Max) (20 )	I = 0.06CV + 10 $\mu$ A (After rated voltage applied for 2 minutes)									
	I = Leakage Current ( $\mu$ A ) C = Nominal Capacitance ( $\mu$ F ) V = Rated Voltage ( V )									
Dissipation Factor (Max) (tan ) (120Hz, 20 )	WV	4	6.3	10	16	25	35	50	63	
	tan	0.35	0.24	0.20	0.16	0.16	0.14	0.12	0.10	
Low Temperature Stability Impedance Ratio (Max)	WV		4	6.3	10	16	25	35	50	63
	Z (120Hz)		6	4	3	2	2	2	2	2
	Z(-40 ) / Z(20 )		12	8	6	4	4	3	3	3
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	4	5	6.3
P	1.5	2.0	2.5
d	0.45	0.5	0.5
a	1.0	1.0	1.0

### Multiplier for Ripple Current

#### Frequency coefficient

Freq. (Hz)	50	120	1K	10K
WV (VDC)				
4~10	0.80	1.00	1.10	1.20
16~25	0.80	1.00	1.20	1.30
35~63	0.80	1.00	1.50	1.70

#### Temperature coefficient

Ambient Temperature ( )	50	70	85
Coefficient	1.36	1.25	1.00



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

SPEC μ F	4		6.3		10		16		25		35	
	DxL	RC	DxL	RC	DxL	RC	DxL	RC	DxL	RC	DxL	RC
2.2											4x7	15
3.3									4x7	15	5x7	20
4.7							4x7	20	5x7	20	5x7	25
10					4x7	25	5x7	30	6.3x7	35	6.3x7	40
22			5x7	35	5x7	40	6.3x7	45	6.3x7	50		
33	5x7	35	5x7	40	6.3x7	50	6.3x7	60	6.3x7	65		
47	5x7	40	6.3x7	50	6.3x7	60	6.3x7	70				
100	6.3x7	60										

SPEC μ F	50		63	
	DxL	RC	DxL	RC
0.1	4x7	1	4x7	1
0.22	4x7	2	4x7	2
0.33	4x7	3	4x7	3
0.47	4x7	5	4x7	5
1	4x7	10	4x7	15
2.2	4x7	20	5x7	25
3.3	5x7	25	6.3x7	30
4.7	6.3x7	30	6.3x7	35