

SN Non-polar Series

- Features: 105°C 1000 hours
- Recommended Application: Non-polar miniature type for used in reversing polarity DC voltage circuits

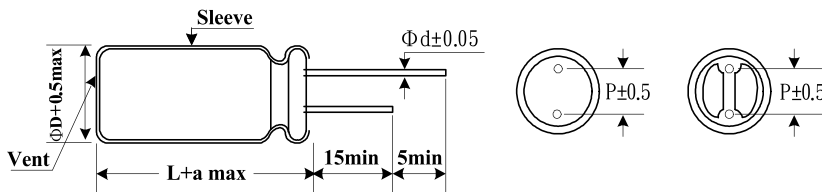
SN
 ▲ High Temperature
 RN



■ Specifications

Item	Characteristics																								
Category Temperature Range	-40 ~ +105°C																								
Rated Voltage Range	6.3 ~ 100V																								
Rated Capacitance Range	0.47 ~ 2200 µF																								
Capacitance Tolerance	± 20 % at 120Hz , 20°C																								
Leakage Current (MAX) (20°C)	I=0.03CV+ 3µA (After rated voltage applied for 2 minutes)																								
Dissipation Factor (MAX) (tan δ) (120Hz ,20°C)	<table border="1"> <tr> <td>WV</td> <td>6.3</td> <td>10</td> <td>16</td> <td>25</td> <td>35</td> <td>50</td> <td>100</td> </tr> <tr> <td>tan δ</td> <td>0.24</td> <td>0.20</td> <td>0.17</td> <td>0.15</td> <td>0.14</td> <td>0.12</td> <td>0.10</td> </tr> </table>	WV	6.3	10	16	25	35	50	100	tan δ	0.24	0.20	0.17	0.15	0.14	0.12	0.10								
	WV	6.3	10	16	25	35	50	100																	
	tan δ	0.24	0.20	0.17	0.15	0.14	0.12	0.10																	
For capacitor whose capacitance exceeds 1000µF, The value of tand is increased by 0.02 for ever addition of 1000µF.																									
Low Temperature Stability Impedance Ratio (MAX)	<table border="1"> <tr> <td>Rated voltage(V) Z(120Hz)</td> <td>6.3</td> <td>10</td> <td>16</td> <td>25</td> <td>35</td> <td>50</td> <td>100</td> </tr> <tr> <td>Z-25°C / Z+20°C</td> <td>4</td> <td>3</td> <td>2</td> <td>2</td> <td>2</td> <td>2</td> <td>2</td> </tr> <tr> <td>Z-40°C / Z+20°C</td> <td>10</td> <td>8</td> <td>6</td> <td>4</td> <td>3</td> <td>3</td> <td>3</td> </tr> </table>	Rated voltage(V) Z(120Hz)	6.3	10	16	25	35	50	100	Z-25°C / Z+20°C	4	3	2	2	2	2	2	Z-40°C / Z+20°C	10	8	6	4	3	3	3
	Rated voltage(V) Z(120Hz)	6.3	10	16	25	35	50	100																	
	Z-25°C / Z+20°C	4	3	2	2	2	2	2																	
Z-40°C / Z+20°C	10	8	6	4	3	3	3																		
After applying rated voltage for 1000 hours at 105°C, (The polarity shall be reversed every 250 hrs.)																									
Endurance	Capacitance Change	Within ± 25 % of initial value																							
	Dissipation Factor	Not more than 150% of specified value																							
	Leakage Current	Not more than the specified value																							
Shelf Life	After placed at 105°C without voltage applied for 500 hours, the capacitors shall meet the same requirement as Endurance.																								

■ Diagram of Dimensions



ϕD	4.0	5.0	6.3	8.0	10.0	12.0	13.0	16.0	18.0	22.0
P	1.5	2.0	2.5	3.5	5.0	5.0	5.0	7.5	7.5	10.0
ϕd	0.45	0.5	0.5	0.6	0.6	0.6	0.6	0.8	0.8	0.8 (1.0)
a	1.0	1.5	1.5	1.5	1.0	2.0	2.0	2.0	2.0	2.0

() : L ≥ 40

■ Multiplier for Ripple Current

Frequency coefficient

Frequency (Hz)	60	120	300	1K	10K
Factor	0.75	1.00	1.20	1.32	1.65

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■ Dimensions, Rated Ripple Current

Capacitance (μ F)	Rated (Surge) Voltage																		
	6.3(8)		10(13)		16(20)		25(32)		35(44)		50(63)		63(79)		80(100)		100(125)		
	SIZE	R.C	SIZE	R.C	SIZE	R.C	SIZE	R.C	SIZE	R.C	SIZE	R.C	SIZE	R.C	SIZE	R.C	SIZE	R.C	
0.22												5x11	5						
0.47												5x11	11	5x11	11	5x11	11	5x11	14
1												5x11	17	5x11	17	5x11	17	5x11	21
2.2												5x11	25	5x11	25	5x11	29	6.3x11	34
3.3												6.3x11	31	6.3x11	37	6.3x11	39	8x11	49
4.7									5x11	34	5x11	34	5x11	37	8x11	47	8x11	58	
											6.3x11	41	6.3x11	44					
10					6.3x11	45	5x11	42	6.3x11	54	6.3x11	56	8x11	74	10x12.5	88	8x11	80	
							6.3x11	50			8x11	70						10x12.5	100
22			5x11	57	5x11	59	6.3x11	69	8x11	94	6.3x11	75	8x11	95	10x20	150	13x20	180	
					6.3x11	69	8x11	86			8x11	97	10x16	130					
											10x12.5	115							
33	5x11	63	6.3x11	77	8x11	98	8x11	105	10x12.5	125	8x11	110	8x11	115	13x20	205	13x20	220	
											10x16	150	10x20	175					
47	6.3x11	84	6.3x11	93	8x11	115	10x12.5	140	10x16	165	8x11	130	13x20	230	13x20	245	13x25	285	
											10x20	190							
100	8x11	140	8x11	193	8x11	140	10x20	240	13x20	285	13x20	310	16x25	410	16x25	435	16x32	510	
					10x12.5	175													
					10x16	205													
220	10x12.5	235	10x16	255	10x20	330	13x20	390	16x25	520	16x25	570	16x32	660					
330	10x16	310	10x20	380	13x20	445	16x25	580	16x25	630	16x36	790							
470	10x20	400	13x20	470	13x25	570	16x25	690	16x32	820									
1000	13x25	690	16x25	885	16x32	1020													
2200	16x32	1250	16x36	1450															

 ☆ Size: D ϕ x L (mm) ☆ Ripple Current: (mA/rms). 105°C, 120Hz