

# Aluminum Electrolytic Capacitors



## NS Series

- Non-polarized series with 5mm height
- Designed for use in circuits with reversing polarity
- Load life of 1000 hours at 105°C
- Solvent-proof
- Rohs compliance.

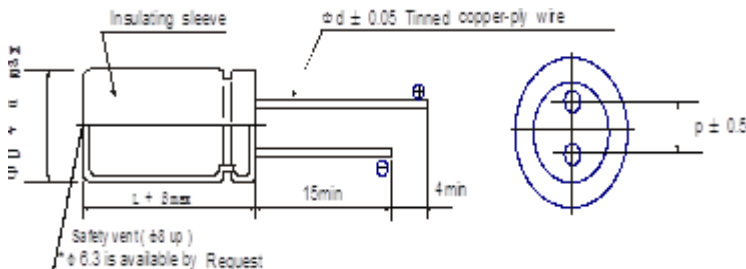


### SPECIFICATIONS

Item	Characteristics																					
Operating Temperature Range	- 40 ~ +105°C																					
Voltage Range	6.3 ~50 V.DC																					
Nominal Cap. Range	0.1 ~47 μF																					
Capacitance Tolerance	- 20% ~ + 20% (at 20°C, 120Hz)																					
Leakage Current	I = 0.03CV or 3(μA) whichever is greater.(after 5 min.) where,I: Max Leakage Current(μA), C: Nominal Capacitance(μF), V: Rated Voltage(V) (at 20°C)																					
Dissipation Factor (tanδ) ( at 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> </tr> <tr> <td>tanδ</td> <td>0.24</td> <td>0.20</td> <td>0.17</td> <td>0.17</td> <td>0.15</td> <td>0.15</td> </tr> </table>	WV	6.3	10	16	25	35	50	tanδ	0.24	0.20	0.17	0.17	0.15	0.15							
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Low Temp. Impedance Stability at 120Hz	<table border="1"> <tr> <td>W. V .</td> <td>6.3</td> <td>10</td> <td>16</td> <td>25</td> <td>35</td> <td>50</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> </tr> <tr> <td>Z(- 40°C) / Z(+ 20°C)</td> <td>8</td> <td>6</td> <td>4</td> <td>4</td> <td>3</td> <td>3</td> </tr> </table>	W. V .	6.3	10	16	25	35	50	Z(- 25°C) / Z(+ 20°C)	4	3	2	2	2	2	Z(- 40°C) / Z(+ 20°C)	8	6	4	4	3	3
W. V .	6.3	10	16	25	35	50																
Z(- 25°C) / Z(+ 20°C)	4	3	2	2	2	2																
Z(- 40°C) / Z(+ 20°C)	8	6	4	4	3	3																
High Temp. Load Test	105°C 1,000 hours, at rated voltage, during which the polarity of DC voltage is reversed for each 500 hours, the capacitor shall meet the following limits: Capacitance change ... ≦ ±20% of the initial measured value Tan δ ... ≦ 200% of the initial specified value DC leakage current ... ≦ the initial specified value																					
High Temp. Non-Load Test	After storage for 500 hours at 105°C with no voltage applied, voltage treatment of JIS-C-5102 article 4-4 is to be given and then measurement shall be made, at which time requirements specified in the table "High temperature loading" can be met.																					

Note : Some cleaning solvents may adversely affect the capacitors . Consult us about the suitable type of cleaning solvents to be used.

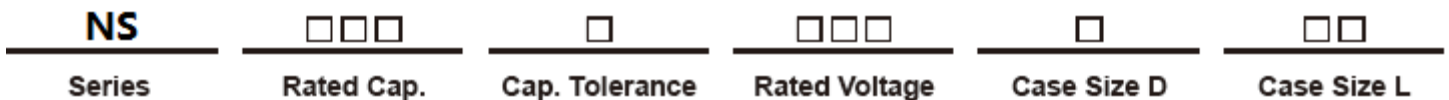
### DRAWING



Unit :mm

$\Phi D$	4	5	6.3	8
P	1.5	2.0	2.5	3.5
$\phi d$	0.45	0.45	0.45	0.45
$\beta$	1.0			

### PART NUMBERING SYSTEM



## NS Series

### STANDARD RATINGS

wv(Vdc) Parameter Cap (μF)	6.3		10		16		25		35		50	
	ΦDxL (mm)	Ripple current (mAmps)	ΦDxL (mm)	Ripple current (mAmps)	ΦDxL (mm)	Ripple current (mAmps)	ΦDxL (mm)	Ripple current (mAmps)	ΦDxL (mm)	Ripple current (mAmps)	ΦDxL (mm)	Ripple current (mAmps)
0.1											4 X 5	3.2
0.22											4 X 5	4.7
0.33											4 X 5	5.8
0.47											4 X 5	6.9
0.68											4 X 5	8.3
1											4 X 5	10
2.2							4 X 5	10	4 X 5	11	5 X 5	12
3.3							4 X 5	14	4 X 5	16	5 X 5	21
4.7					4 X 5	12	4 X 5	16	4 X 5	18	6.3 X 5	24
6.8					4 X 5	18	5 X 5	20	5 X 5	24	6.3 X 5	32
10	4 X 5	14	4 X 5	18	4 X 5	20	5 X 5	21	6.3 X 5	28		
22	5 X 5	25	5 X 5	30	5 X 5	21	6.3 X 5	34				
33	5 X 5	35	6.3 X 5	37	6.3 X 5	34						
47	6.3 X 5	40										

Rated Ripple Current (mAmps) at 85°C 120Hz  

 Case Size: Φ D x L (mm)