

NW7 SERIES

Bi-polar, 7mm Height

◆ FEATURES

- RoHS compliance.



◆ SPECIFICATIONS

Items	Characteristics																											
Category Temperature Range	-40~+85℃																											
Rated Voltage Range	6.3~50V.DC																											
Capacitance Tolerance	±20% (20℃, 120Hz)																											
Leakage Current(MAX)	I=0.05CV or 10 μ A whichever is greater. (After 5 minutes application of rated voltage) I=Leakage Current(μ A) C=Rated Capacitance(μ F) V=Rated Voltage(V)																											
Dissipation Factor(MAX) (tan δ)	<table><tr><td>Rated Voltage (V)</td><td>6.3</td><td>10</td><td>16</td><td>25</td><td>35</td><td>50</td></tr><tr><td>tan δ</td><td>0.26</td><td>0.22</td><td>0.18</td><td>0.17</td><td>0.15</td><td>0.14</td></tr></table> (20℃, 120Hz)							Rated Voltage (V)	6.3	10	16	25	35	50	tan δ	0.26	0.22	0.18	0.17	0.15	0.14							
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Endurance	After applying rated voltage with rated ripple current for 1000hrs at 85℃, (The polarity shall be reversed every 500hrs.), the capacitors shall meet the following requirements. <table><tr><td>Capacitance Change</td><td colspan="6">Within ±25% of the initial value.</td></tr><tr><td>Dissipation Factor</td><td colspan="6">Not more than 200% of the specified value.</td></tr><tr><td>Leakage Current</td><td colspan="6">Not more than the specified value.</td></tr></table>							Capacitance Change	Within ±25% of the initial value.						Dissipation Factor	Not more than 200% of the specified value.						Leakage Current	Not more than the specified value.					
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Low Temperature Stability Impedance Ratio(MAX)	<table><tr><td>Rated Voltage (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℃)/Z(20℃)</td><td>4</td><td>3</td><td>3</td><td>2</td><td>2</td><td>2</td></tr><tr><td>Z(-40℃)/Z(20℃)</td><td>10</td><td>8</td><td>6</td><td>4</td><td>4</td><td>4</td></tr></table> (120Hz)							Rated Voltage (V)	6.3	10	16	25	35	50	Z(-25℃)/Z(20℃)	4	3	3	2	2	2	Z(-40℃)/Z(20℃)	10	8	6	4	4	4
Rated Voltage (V)	6.3	10	16	25	35	50																						
Z(-25℃)/Z(20℃)	4	3	3	2	2	2																						
Z(-40℃)/Z(20℃)	10	8	6	4	4	4																						

◆MULTIPLIER FOR RIPPLE CURRENT

Frequency coefficient

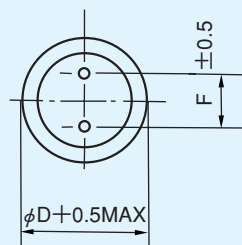
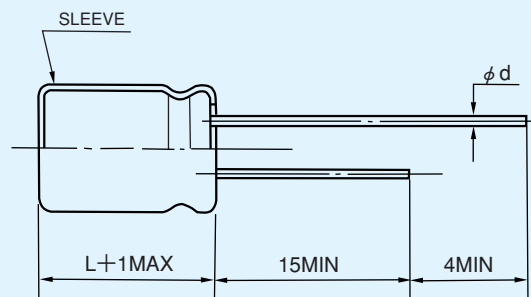
Frequency (Hz)		60(50)	120	500	1k	10k \leq
Coefficient	0.1 \sim 1 μ F	0.50	1.00	1.20	1.30	1.50
	2.2 \sim 4.7 μ F	0.65	1.00	1.20	1.30	1.50
	10 \sim 47 μ F	0.80	1.00	1.20	1.30	1.50

◆PART NUMBER

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Rated Voltage	NW7 Series	Rated Capacitance	Capacitance Tolerance	Option	Lead Forming	D×L Case Size		

◆ DIMENSIONS

(mm)



ϕD	4	5	6.3
ϕd	0.45		
F	1.5	2.0	2.5

◆ STANDARD SIZE, RATED RIPPLE CURRENT

Size $\phi D \times L$ (mm), Ripple Current (mA r.m.s./85°C, 120Hz)

Cap (μF) \ WV (V.DC)	6.3 (0J)		10 (1A)		16 (1C)		25 (1E)		35 (1V)		50 (1H)	
	Size	Ripple	Size	Ripple	Size	Ripple	Size	Ripple	Size	Ripple	Size	Ripple
0.1											4×7	1
0.22											4×7	2
0.33											4×7	3
0.47											4×7	5
1											4×7	10
2.2									4×7	13	5×7	15
3.3							4×7	15	5×7	19	5×7	19
4.7					4×7	18	4×7	18	5×7	22	6.3×7	26
10			4×7	23	4×7	25	6.3×7	35	6.3×7	37		
22	5×7	32	5×7	35	6.3×7	45	6.3×7	50				
33	5×7	40	6.3×7	45	6.3×7	60						
47	6.3×7	56	6.3×7	65	6.3×7	65						