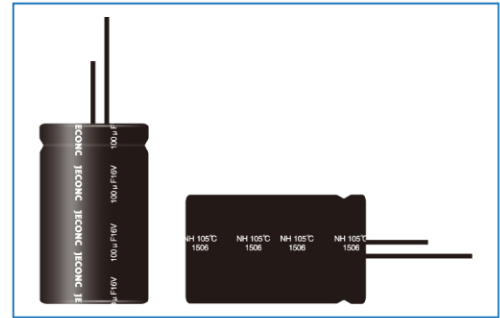


NH系列 SERIES

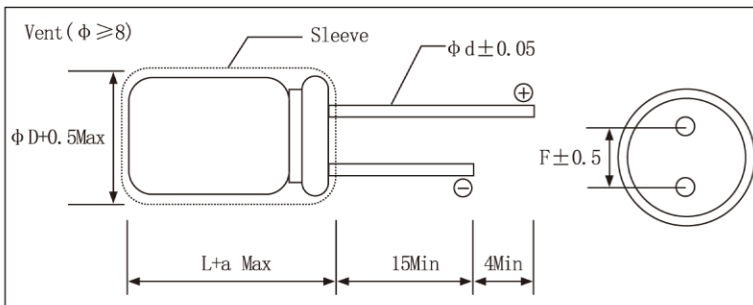
- 2000h at 105°C
- Wide temperature range
- No-polar



◆ SPECIFICATION

Items	Characteristics																																				
Operating Temperature Range(°C)	-40~+105°C																																				
Voltage range (V)	6.3~100V																																				
Capacitance Range (µF)	0.47~6800 µF																																				
Capacitance Tolerance	±20% (at 20°C, 120Hz)																																				
leakage current (µA)	A=0.03 CV or 10 (µA) whichever is greater. (After 2 minutes' application of rated voltage)																																				
Dissipation Factor(Tan δ)	<table border="1"> <thead> <tr> <th>WV (V)</th> <th>6.3</th> <th>10</th> <th>16</th> <th>25</th> <th>35</th> <th>50</th> <th>63</th> <th>100</th> </tr> </thead> <tbody> <tr> <td>Tan δ (max)</td> <td>0.24</td> <td>0.24</td> <td>0.20</td> <td>0.20</td> <td>0.16</td> <td>0.14</td> <td>0.12</td> <td>0.10</td> </tr> </tbody> </table>										WV (V)	6.3	10	16	25	35	50	63	100	Tan δ (max)	0.24	0.24	0.20	0.20	0.16	0.14	0.12	0.10									
	WV (V)	6.3	10	16	25	35	50	63	100																												
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Low Temperature Characteristics	<table border="1"> <thead> <tr> <th>Rated Voltage (V)</th> <th>6.3</th> <th>10</th> <th>16</th> <th>25</th> <th>35</th> <th>50</th> <th>63</th> <th>100</th> </tr> </thead> <tbody> <tr> <td>Impedance</td> <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>Ratio (MAX)</td> <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> </tbody> </table>										Rated Voltage (V)	6.3	10	16	25	35	50	63	100	Impedance	Z-25°C/Z+20°C	4	3	2	2	2	2	2	Ratio (MAX)	Z-40°C/Z+20°C	10	8	6	4	3	3	3
	Rated Voltage (V)	6.3	10	16	25	35	50	63	100																												
	Impedance	Z-25°C/Z+20°C	4	3	2	2	2	2	2																												
Ratio (MAX)	Z-40°C/Z+20°C	10	8	6	4	3	3	3																													
(at 120Hz)																																					
Load Life	The following specifications shall be satisfied when the capacitors are restored to 20°C after subjected to DC voltage with the rated rippled current is applied for 2000 hours at 105°C . (Reverse polarity every 25 hours.)																																				
	Rated voltage	6.3~16V				25~100V																															
	Capacitance change	≤±25% of the initial value				≤±20% of the initial value																															
	D. F. (Tan δ)	≤ 150% of the initial specified value																																			
	Leakage current	≤The initial specified value																																			
Shelf Life	The following specifications shall be satisfied when the capacitors are restored to 20°C after subjected to DC voltage with the rated rippled current is applied for 1000 hours at 105°C according to Item 4.1 of JIS C 5101-4 . (Reverse polarity every 25 minute																																				
	Rated voltage	6.3~16V				25~100V																															
	Capacitance change	≤±25% of the initial value				≤±20% of the initial value																															
	D. F. (Tan δ)	≤ 150% of the initial specified value																																			
	Leakage current	≤The initial specified value																																			

◆ DIMENSIONS(mm)



ΦD	5	6.3	8	10	13	16	18
F	2.0	2.5	3.5	5.0	5.0	7.5	7.5
Φd	0.5	0.5	0.5	0.6	0.6	0.8	0.8
a	1.5	1.5	1.5	2.0	2.0	2.0	2.0

◆ Frequency Coefficient

Frequency	50/60Hz	120Hz	1KHz	≥10KHz
Cap (µF) ≤ 8.2	0.65	1.00	1.35	2.30
10~82	0.75	1.00	1.25	1.75
100~820	0.80	1.00	1.15	1.40
≥ 1000	0.85	1.00	1.03	1.08

◆ Temperature Coefficient

Temperature (°C)	+70	+85	+105
Coefficient	1.8	1.4	1.0



◆ STANDARD RATINGS

UR (Surge Voltage) Code	Rated Capacitance	Rated Ripple Current 105°C120Hz	Size $\Phi D \times L$
(V)	(μF)	(mA rms)	(mm)
6.3 (8) 0J	33	45	5×11
	47	54	5×11
	100	90	6.3×12
	220	150	8×12
	330	185	8×12
	470	260	10×12.5
	1000	460	10×20
	2200	820	13×25
	3300	1110	16×25
	4700	1430	16×31.5
	6800	1830	18×35.5
10 (13) 1A	22	37	5×11
	33	45	5×11
	47	54	5×11
	100	90	6.3×12
	220	150	8×12
	330	240	10×16
	470	290	10×16
	1000	510	13×20
	2200	910	16×25
	3300	1200	16×31.5
4700	1520	18×35.5	
16 (20) 1C	10	27	5×11
	22	40	5×11
	33	49	5×11
	47	67	6.3×12
	100	110	8×12
	220	195	10×12.5
	330	265	10×16
	470	345	10×20
	1000	605	13×25
	2200	1070	16×31.5
3300	1400	18×35.5	
25 (32) 1E	10	27	5×11
	22	46	6.3×12
	33	56	6.3×12
	47	67	6.3×12
	100	110	8×12
	220	215	10×16
	330	320	13×20
	470	380	13×20
	1000	670	16×25
	2200	1140	18×35.5

UR (Surge Voltage) Code	Rated Capacitance	Rated Ripple Current 105°C120Hz	Size $\Phi D \times L$	
(V)	(μF)	(mA rms)	(mm)	
35 (44) 1V	4.7	21	5×11	
	10	30	5×11	
	22	51	6.3×12	
	33	72	8×12	
	47	86	8×12	
	100	160	10×16	
	220	290	13×20	
	330	350	13×20	
	470	465	13×25	
	1000	805	16×31.5	
	50 (63) 1H	0.47	7	5×11
		1	10	5×11
		2.2	15	5×11
3.3		18	5×11	
4.7		22	5×11	
10		37	6.3×12	
22		63	8×12	
33		77	8×12	
47		105	10×12.5	
100		190	10×20	
220		340	13×25	
330		460	16×25	
470		590	16×31.5	
63 (79) 1J	3.3	20	5×11	
	4.7	24	6.3×12	
	10	40	6.3×12	
	22	68	8×12	
	33	98	10×12.5	
	47	130	10×16	
	100	225	13×20	
	220	405	16×25	
	330	535	16×31.5	
	470	680	18×35.5	
	100 (125) 2A	0.47	8	5×11
		1	12	5×11
		2.2	20	6.3×12
3.3		25	6.3×12	
4.7		30	6.3×12	
10		50	8×12	
22		97	10×16	
33		140	13×20	
47		170	13×20	
100		300	16×25	
220		510	18×35.5	

Customer products are available on request