

nichicon

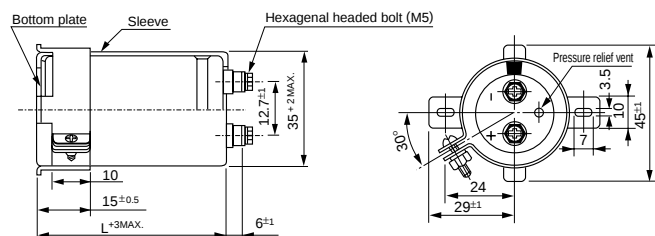
Screw Terminal Type, 85°C High Voltage

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- Diagram illustrating the relationship between NX, NW, and NR:
- NX is associated with "Long life" (indicated by a left-pointing arrow).
 - NW is represented by a rounded rectangle.
 - NR is associated with "High Voltage" (indicated by an upward-pointing arrow).

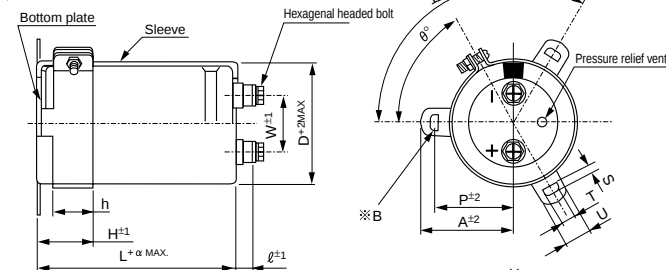


Item	Performance Characteristics			
Category Temperature Range	- 25 to +85°C			
Rated Voltage Range	350 to 550V			
Rated Capacitance Range	100 to 12000μF			
Capacitance Tolerance	± 20% (120Hz, 20°C)			
Leakage Current	Less than $3\sqrt{CV}$ (μA) after 5 minutes' application [C:Rated capacitance (μF), V:Voltage (V)]			
Tangent of loss angle (tan δ)	0.25MAX. (120Hz, 20°C)			
Stability at Low Temperature	Rated voltage(V)	350 to 550	Measurement frequency : 120Hz	
	Impedance ratio ZT/Z20(MAX.)	Z - 25°C / Z+20°C		
		8		
Insulation Resistance	The insulation resistance shall be more than 100MΩ at DC 500V application between terminal and bracket.			
Voltage proof	There is no abnormality during AC 2500V 1 minute's application between terminal and bracket.			
Endurance	The specifications listed at right shall be met when the capacitors are restored to 20°C after D.C. bias plus rated ripple current is applied for 2000 hours at 85°C, the peak voltage shall not exceed the rated voltage.	Capacitance change	Within ±20% of the initial capacitance value	
		tan δ	300% or less than the initial specified value	
		Leakage current	Less than or equal to the initial specified value	
Shelf Life	After storing the capacitors under no load at 85°C for 1000 hours and then performing voltage treatment based on JIS C 5101-4 clause 4.1 at 20°C, they shall meet the requirements listed at right.	Capacitance change	Within ±20% of the initial capacitance value	
		tan δ	300% or less than the initial specified value	
		Leakage current	Less than or equal to the initial specified value	
Marking	Printed with white color letter on black sleeve			

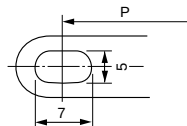
φ35 Screw terminal type



Ø51 to 90 Screw terminal type

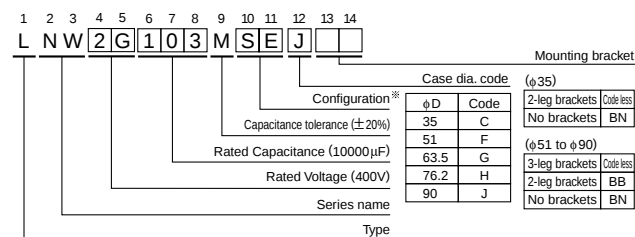


※ B
3-leg brackets for $\phi 90$ capacitors have different hole shapes from the ordinary ones illustrated below.



Note) The terminal bolts and mounting brackets will be delivered

Type numbering system (Example: 400V 10000 μ F)



✧ Configuration

Cr (III) Plating (RoHS compliant)
SE

Resin bushing available upon request.
 ※ Please contact to us if PVC less products are required.

●Dimension of terminal pitch (W) and length (ℓ) and Nominal dia. of bolt (mm)

ϕD	W	ℓ	α	Nominal dia. of bolt
51	22.0	6	3	M5
63.5	28.6	6	3	M5
76.2	31.8	6	3	M5
90	31.8	6	3	M5

●Dimension of mounting bracket (mm)

Leg shape		3-Leg				2-Leg			
Symbol	ϕ/D	51	63.5	76.2	90	51	63.5	76.2	90
P		32.5	38.1	44.5	50.8	33.2	40.5	46.5	53
A		38.5	43	49.2	58.5	40	46.5	53	59
T		7.5	8.0	7.0	8.0	6.0	7.0	6.0	6.0
S		5.0	5.0	5.0	5.0	4.5	4.5	4.5	4.5
U		12	14	14	18	14	14	14	14
θ°		60	60	60	60	30	30	30	30
H		20	25	30	35	25	35	35	35
h		15	20	24	25	15	20	20	20

- Dimension table in next page.

■Dimensions

350V (2V)					
Cap. (μ F)	Size ϕ D $\times$ L (mm)	Rated ripple (Arms)	$\tan \delta$	Leakage Current (mA)	Code
390	35 $\times$ 50	2.1	0.25	1.10	LNW2V391MSEC
470	35 $\times$ 60	2.5	0.25	1.21	LNW2V471MSEC
560	35 $\times$ 70	2.9	0.25	1.32	LNW2V561MSEC
680	35 $\times$ 80	3.3	0.25	1.46	LNW2V681MSEC
820	35 $\times$ 90	3.7	0.25	1.60	LNW2V821MSEC
1000	35 $\times$ 100	4.3	0.25	1.77	LNW2V102MSEC
1200	35 $\times$ 120	5.1	0.25	1.94	LNW2V122MSEC
1500	51 $\times$ 75	5.7	0.25	2.17	LNW2V152MSEF
1800	51 $\times$ 85	6.6	0.25	2.38	LNW2V182MSEF
2200	51 $\times$ 95	7.6	0.25	2.63	LNW2V222MSEF
2700	51 $\times$ 115	9.2	0.25	2.91	LNW2V272MSEF
3300	51 $\times$ 130	10.8	0.25	3.22	LNW2V332MSEF
	63.5 $\times$ 95	10.6	0.25	3.22	LNW2V332MSEG
3900	63.5 $\times$ 115	12.5	0.25	3.50	LNW2V392MSEG
4700	63.5 $\times$ 130	14.5	0.25	3.84	LNW2V472MSEG
	76.2 $\times$ 95	14.0	0.25	3.84	LNW2V472MSEH
5600	76.2 $\times$ 115	16.6	0.25	4.20	LNW2V562MSEH
6800	76.2 $\times$ 130	17.9	0.25	4.62	LNW2V682MSEH
8200	76.2 $\times$ 155	19.9	0.25	5.00	LNW2V822MSEH
10000	76.2 $\times$ 170	22.0	0.25	5.00	LNW2V103MSEH
	90 $\times$ 130	21.5	0.25	5.00	LNW2V103MSEJ
12000	90 $\times$ 155	24.8	0.25	5.00	LNW2V123MSEJ

400V (2G)					
Cap. (μ F)	Size ϕ D $\times$ L (mm)	Rated ripple (Arms)	$\tan \delta$	Leakage Current (mA)	Code
330	35 $\times$ 50	1.9	0.25	1.09	LNW2G331MSEC
390	35 $\times$ 60	2.3	0.25	1.18	LNW2G391MSEC
470	35 $\times$ 70	2.7	0.25	1.30	LNW2G471MSEC
560	35 $\times$ 80	3.1	0.25	1.42	LNW2G561MSEC
680	35 $\times$ 90	3.6	0.25	1.56	LNW2G681MSEC
820	35 $\times$ 100	4.1	0.25	1.71	LNW2G821MSEC
1000	35 $\times$ 120	5.0	0.25	1.89	LNW2G102MSEC
1200	51 $\times$ 75	5.5	0.25	2.07	LNW2G122MSEF
1500	51 $\times$ 85	6.5	0.25	2.32	LNW2G152MSEF
1800	51 $\times$ 95	7.4	0.25	2.54	LNW2G182MSEF
2200	51 $\times$ 130	9.4	0.25	2.81	LNW2G222MSEF
2700	63.5 $\times$ 95	10.2	0.25	3.11	LNW2G272MSEG
3300	63.5 $\times$ 115	12.1	0.25	3.44	LNW2G332MSEG
3900	63.5 $\times$ 130	13.7	0.25	3.74	LNW2G392MSEG
	76.2 $\times$ 95	13.2	0.25	3.74	LNW2G392MSEH
4700	76.2 $\times$ 115	15.5	0.25	4.11	LNW2G472MSEH
5600	76.2 $\times$ 130	17.5	0.25	4.49	LNW2G562MSEH
6800	76.2 $\times$ 155	20.5	0.25	4.94	LNW2G682MSEH
8200	76.2 $\times$ 170	23.1	0.25	5.00	LNW2G822MSEH
	90 $\times$ 130	22.6	0.25	5.00	LNW2G822MSEJ
10000	90 $\times$ 155	26.5	0.25	5.00	LNW2G103MSEJ

450V (2W)					
Cap. (μ F)	Size ϕ D $\times$ L (mm)	Rated ripple (Arms)	$\tan \delta$	Leakage Current (mA)	Code
270	35 $\times$ 50	1.8	0.25	1.04	LNW2W271MSEC
330	35 $\times$ 60	2.1	0.25	1.15	LNW2W331MSEC
390	35 $\times$ 70	2.4	0.25	1.25	LNW2W391MSEC
470	35 $\times$ 80	2.9	0.25	1.37	LNW2W471MSEC
560	35 $\times$ 90	3.3	0.25	1.50	LNW2W561MSEC
680	35 $\times$ 100	3.9	0.25	1.65	LNW2W681MSEC
820	35 $\times$ 120	4.6	0.25	1.82	LNW2W821MSEC
1000	51 $\times$ 75	5.0	0.25	2.01	LNW2W102MSEF
1200	51 $\times$ 95	6.1	0.25	2.20	LNW2W122MSEF
1500	51 $\times$ 115	7.4	0.25	2.46	LNW2W152MSEF
1800	51 $\times$ 130	8.5	0.25	2.70	LNW2W182MSEF
2200	63.5 $\times$ 95	9.1	0.25	2.98	LNW2W222MSEG
2700	63.5 $\times$ 115	10.9	0.25	3.30	LNW2W272MSEG
3300	63.5 $\times$ 130	12.8	0.25	3.65	LNW2W332MSEG
	76.2 $\times$ 95	12.4	0.25	3.65	LNW2W332MSEH
3900	76.2 $\times$ 115	14.4	0.25	3.97	LNW2W392MSEH
4700	76.2 $\times$ 130	16.3	0.25	4.36	LNW2W472MSEH
5600	76.2 $\times$ 155	18.9	0.25	4.76	LNW2W562MSEH
6800	76.2 $\times$ 170	21.4	0.25	5.00	LNW2W682MSEH
	90 $\times$ 130	20.9	0.25	5.00	LNW2W682MSEJ
8200	90 $\times$ 155	24.4	0.25	5.00	LNW2W822MSEJ

500V (2H)					
Cap. (μ F)	Size ϕ D $\times$ L (mm)	Rated ripple (Arms)	$\tan \delta$	Leakage Current (mA)	Code
120	35 $\times$ 50	0.8	0.25	0.73	LNW2H121MSEC
180	35 $\times$ 60	1.0	0.25	0.90	LNW2H181MSEC
270	35 $\times$ 80	1.3	0.25	1.10	LNW2H271MSEC
330	35 $\times$ 100	1.6	0.25	1.21	LNW2H331MSEC
390	35 $\times$ 120	1.9	0.25	1.32	LNW2H391MSEC
470	51 $\times$ 75	2.1	0.25	1.45	LNW2H471MSEF
560	51 $\times$ 85	2.4	0.25	1.58	LNW2H561MSEF
680	51 $\times$ 95	2.8	0.25	1.74	LNW2H681MSEF
820	51 $\times$ 115	3.3	0.25	1.92	LNW2H821MSEF
1000	51 $\times$ 130	3.9	0.25	2.12	LNW2H102MSEF
	63.5 $\times$ 95	3.8	0.25	2.12	LNW2H102MSEG
1200	63.5 $\times$ 95	4.2	0.25	2.32	LNW2H122MSEG
1500	63.5 $\times$ 115	5.1	0.25	2.59	LNW2H152MSEG
	76.2 $\times$ 95	5.2	0.25	2.59	LNW2H152MSEH
1800	63.5 $\times$ 130	5.9	0.25	2.84	LNW2H182MSEG
2200	76.2 $\times$ 115	6.8	0.25	3.14	LNW2H222MSEH
2700	76.2 $\times$ 155	8.6	0.25	3.48	LNW2H272MSEH
3300	76.2 $\times$ 170	9.9	0.25	3.85	LNW2H332MSEH
	90 $\times$ 130	9.7	0.25	3.85	LNW2H332MSEJ
3900	90 $\times$ 155	11.4	0.25	4.18	LNW2H392MSEJ

Rated ripple current (Arms) at 85°C 120Hz

NW series

■ Dimensions

550V (2L)					
Cap. (μ F)	Size ϕ D $\times$ L (mm)	Rated ripple (Arms)	$\tan \delta$	Leakage Current (mA)	Code
100	35 $\times$ 50	0.7	0.25	0.70	LNW2L101MSEC
120	35 $\times$ 50	0.8	0.25	0.77	LNW2L121MSEC
180	35 $\times$ 80	1.1	0.25	0.94	LNW2L181MSEC
270	35 $\times$ 100	1.5	0.25	1.15	LNW2L271MSEC
330	35 $\times$ 120	1.8	0.25	1.27	LNW2L331MSEC
390	51 $\times$ 75	1.9	0.25	1.38	LNW2L391MSEF
470	51 $\times$ 85	2.2	0.25	1.52	LNW2L471MSEF
560	51 $\times$ 95	2.5	0.25	1.66	LNW2L561MSEF
	63.5 $\times$ 95	2.9	0.25	1.66	LNW2L561MSEG
680	51 $\times$ 115	3.0	0.25	1.83	LNW2L681MSEF
	63.5 $\times$ 115	3.4	0.25	1.83	LNW2L681MSEG
820	51 $\times$ 130	3.5	0.25	2.01	LNW2L821MSEF
	63.5 $\times$ 130	4.0	0.25	2.01	LNW2L821MSEG
1000	63.5 $\times$ 130	4.4	0.25	2.22	LNW2L102MSEG
1200	76.2 $\times$ 95	4.6	0.25	2.43	LNW2L122MSEH
1500	76.2 $\times$ 115	5.6	0.25	2.72	LNW2L152MSEH
1800	76.2 $\times$ 130	6.5	0.25	2.98	LNW2L182MSEH
2200	76.2 $\times$ 155	7.8	0.25	3.30	LNW2L222MSEH
2700	76.2 $\times$ 170	9.0	0.25	3.66	LNW2L272MSEH
	90 $\times$ 130	8.8	0.25	3.66	LNW2L272MSEJ
3300	90 $\times$ 155	10.4	0.25	4.04	LNW2L332MSEJ

Rated ripple current (Arms) at 85°C 120Hz

● Frequency coefficient of rated ripple current

Frequency (Hz)	50	60	120	300	1k	10k or more
Coefficient	0.80	0.82	1.00	1.10	1.35	1.40

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