



**THE DATASHEET OF
LNY2W272MSEG**



ALUMINUM ELECTROLYTIC CAPACITORS

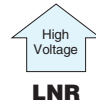
nichicon

LNY

Screw Terminal Type, 85°C Higher Capacitance

- Suited for equipment down sizing.
- Load life of 2000 hours application of ripple current at 85°C
- Compliant to the RoHS directive (2011/65/EU,(EU)2015/863).

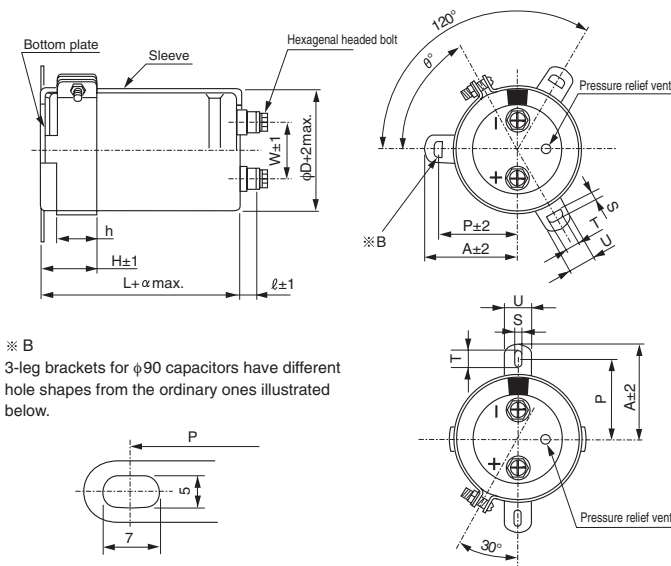
LNY



Specifications

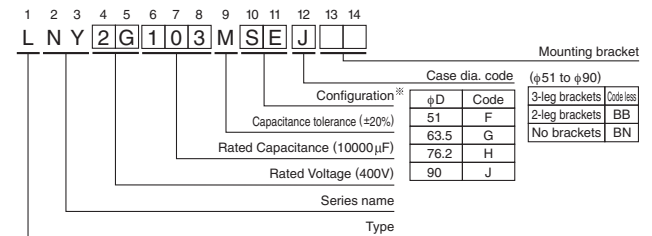
Item	Performance Characteristics		
Category Temperature Range	- 40 to +85°C		
Rated Voltage Range	350 to 450V		
Rated Capacitance Range	820 to 22000μF		
Capacitance Tolerance	±20% (120Hz, 20°C)		
Leakage Current	After 5 minutes' application of rated voltage, leakage current is not more than $3\sqrt{C}$ (μA) or 5 mA, whichever is smaller. (at 20°C) [C: Rated Capacitance(μF), V: Voltage (V)]		
Tangent of loss angle (tan δ)	See refer to next page (Measurement frequency : 120Hz at 20°C)		
Stability at Low Temperature	Rated voltage (V)	350 to 450	
	Impedance ratio (max.)	Z(-40°C) / Z(+20°C) 12	
Measurement frequency : 120Hz			
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		

Drawing



Note) The brackets will be supplied in the separate box.

Type numbering system (Example:400V 10000μF)



※ Configuration

Cr (III) Plating (RoHS compliant)
SE

Please refer to the Guidelines for Aluminum Electrolytic Capacitors for dimensions information.

※ Please contact to us if PVCless 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)

Symbol	3-Leg				2-Leg			
	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.

CAT.8100M

LN_Y

■ Dimensions

350V (2V)					
Cap. (μF)	Size φD × L (mm)	Rated ripple (Arms)	tan δ	Leakage Current (mA)	Code
1500	51 × 60	9.3	0.25	2.17	LN _Y 2V152MSEF
1800	51 × 70	10.0	0.25	2.38	LN _Y 2V182MSEF
2200	51 × 80	11.1	0.25	2.63	LN _Y 2V222MSEF
2700	51 × 90	12.2	0.25	2.92	LN _Y 2V272MSEF
	63.5 × 65	11.9	0.25	2.92	LN _Y 2V272MSEG
3300	51 × 105	13.8	0.25	3.22	LN _Y 2V332MSEF
	63.5 × 75	13.1	0.25	3.22	LN _Y 2V332MSEG
3900	51 × 130	14.8	0.25	3.50	LN _Y 2V392MSEF
	63.5 × 80	14.1	0.25	3.50	LN _Y 2V392MSEG
4700	51 × 140	15.9	0.25	3.84	LN _Y 2V472MSEF
	63.5 × 90	15.8	0.25	3.84	LN _Y 2V472MSEG
	76.2 × 70	15.7	0.25	3.84	LN _Y 2V472MSEH
5600	63.5 × 100	17.1	0.25	4.20	LN _Y 2V562MSEG
	76.2 × 85	17.0	0.25	4.20	LN _Y 2V562MSEH
6800	63.5 × 125	19.2	0.25	4.62	LN _Y 2V682MSEG
	76.2 × 95	18.8	0.25	4.62	LN _Y 2V682MSEH
8200	63.5 × 145	20.6	0.25	5.00	LN _Y 2V822MSEG
	76.2 × 105	20.2	0.25	5.00	LN _Y 2V822MSEH
10000	63.5 × 165	23.2	0.25	5.00	LN _Y 2V103MSEG
	76.2 × 125	23.5	0.25	5.00	LN _Y 2V103MSEH
	90 × 95	23.5	0.25	5.00	LN _Y 2V103MSEJ
12000	76.2 × 150	24.0	0.25	5.00	LN _Y 2V123MSEH
	90 × 110	24.1	0.25	5.00	LN _Y 2V123MSEJ
15000	76.2 × 190	28.0	0.25	5.00	LN _Y 2V153MSEH
	90 × 140	29.2	0.25	5.00	LN _Y 2V153MSEJ
18000	76.2 × 210	30.2	0.25	5.00	LN _Y 2V183MSEH
	90 × 155	31.1	0.25	5.00	LN _Y 2V183MSEJ
22000	90 × 190	35.4	0.25	5.00	LN _Y 2V223MSEJ

400V (2G)					
Cap. (μF)	Size φD × L (mm)	Rated ripple (Arms)	tan δ	Leakage Current (mA)	Code
1000	51 × 60	6.4	0.25	1.89	LN _Y 2G102MSEF
1200	51 × 65	7.1	0.25	2.07	LN _Y 2G122MSEF
1500	51 × 75	8.1	0.25	2.32	LN _Y 2G152MSEF
1800	51 × 85	8.7	0.25	2.54	LN _Y 2G182MSEF
	63.5 × 65	9.1	0.25	2.54	LN _Y 2G182MSEG
2200	51 × 95	9.6	0.25	2.81	LN _Y 2G222MSEF
	63.5 × 75	10.1	0.25	2.81	LN _Y 2G222MSEG
2700	51 × 115	10.5	0.25	3.11	LN _Y 2G272MSEF
	63.5 × 85	11.6	0.25	3.11	LN _Y 2G272MSEG
3300	51 × 145	12.4	0.25	3.44	LN _Y 2G332MSEF
	63.5 × 95	13.0	0.25	3.44	LN _Y 2G332MSEG
	76.2 × 70	13.8	0.25	3.74	LN _Y 2G392MSEF
3900	63.5 × 105	14.2	0.25	3.74	LN _Y 2G392MSEG
	76.2 × 85	14.6	0.25	3.74	LN _Y 2G392MSEH
	63.5 × 125	16.1	0.25	4.11	LN _Y 2G472MSEG
4700	76.2 × 95	16.2	0.25	4.11	LN _Y 2G472MSEH
	63.5 × 140	16.9	0.25	4.48	LN _Y 2G562MSEG
5600	76.2 × 105	17.6	0.25	4.48	LN _Y 2G562MSEH
	63.5 × 165	19.1	0.25	4.94	LN _Y 2G682MSEG
8200	63.5 × 210	21.2	0.25	5.00	LN _Y 2G822MSEG
	76.2 × 150	21.2	0.25	5.00	LN _Y 2G822MSEH
	90 × 120	21.0	0.25	5.00	LN _Y 2G822MSEJ
10000	76.2 × 170	22.4	0.25	5.00	LN _Y 2G103MSEH
	90 × 130	22.0	0.25	5.00	LN _Y 2G103MSEJ
12000	76.2 × 220	26.0	0.25	5.00	LN _Y 2G123MSEH
	90 × 155	26.0	0.25	5.00	LN _Y 2G123MSEJ
15000	90 × 190	28.3	0.25	5.00	LN _Y 2G153MSEJ
18000	90 × 230	30.6	0.25	5.00	LN _Y 2G183MSEJ

450V (2W)					
Cap. (μF)	Size φD × L (mm)	Rated ripple (Arms)	tan δ	Leakage Current (mA)	Code
820	51 × 60	4.9	0.25	1.82	LN _Y 2W821MSEF
1000	51 × 70	5.5	0.25	2.01	LN _Y 2W102MSEF
1200	51 × 75	6.0	0.25	2.20	LN _Y 2W122MSEF
1500	51 × 85	6.8	0.25	2.46	LN _Y 2W152MSEF
	63.5 × 65	7.9	0.25	2.46	LN _Y 2W152MSEG
1800	51 × 95	7.9	0.25	2.70	LN _Y 2W182MSEF
	63.5 × 75	8.9	0.25	2.70	LN _Y 2W182MSEG
2200	51 × 125	9.2	0.25	2.98	LN _Y 2W222MSEF
	63.5 × 85	9.8	0.25	2.98	LN _Y 2W222MSEG
2700	51 × 145	10.3	0.25	3.30	LN _Y 2W272MSEF
	63.5 × 90	10.8	0.25	3.30	LN _Y 2W272MSEG
3300	51 × 170	11.1	0.25	3.65	LN _Y 2W332MSEF
	63.5 × 105	12.0	0.25	3.65	LN _Y 2W332MSEG
	76.2 × 85	12.6	0.25	3.65	LN _Y 2W332MSEH
3900	63.5 × 125	13.5	0.25	3.97	LN _Y 2W392MSEG
	76.2 × 95	14.0	0.25	3.97	LN _Y 2W392MSEH
4700	63.5 × 145	15.2	0.25	4.36	LN _Y 2W472MSEG
	76.2 × 105	15.6	0.25	4.36	LN _Y 2W472MSEH
5600	63.5 × 165	17.0	0.25	4.76	LN _Y 2W562MSEG
	76.2 × 125	17.6	0.25	4.76	LN _Y 2W562MSEH
6800	63.5 × 210	19.1	0.25	5.00	LN _Y 2W682MSEG
	76.2 × 150	19.6	0.25	5.00	LN _Y 2W682MSEH
	90 × 120	19.5	0.25	5.00	LN _Y 2W682MSEJ
8200	76.2 × 170	20.1	0.25	5.00	LN _Y 2W822MSEH
	90 × 130	20.1	0.25	5.00	LN _Y 2W822MSEJ
10000	76.2 × 210	23.0	0.25	5.00	LN _Y 2W103MSEH
	90 × 155	22.9	0.25	5.00	LN _Y 2W103MSEJ
12000	90 × 190	26.0	0.25	5.00	LN _Y 2W123MSEJ
15000	90 × 220	29.6	0.25	5.00	LN _Y 2W153MSEJ



● Frequency coefficient of rated ripple current

Frequency (Hz)	50	60	120	360	1k	10k or more
Coefficient	0.80	0.82	1.00	1.20	1.35	1.40







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

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