

ALUMINUM ELECTROLYTIC CAPACITORS

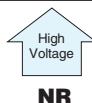
nichicon

NY series

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).

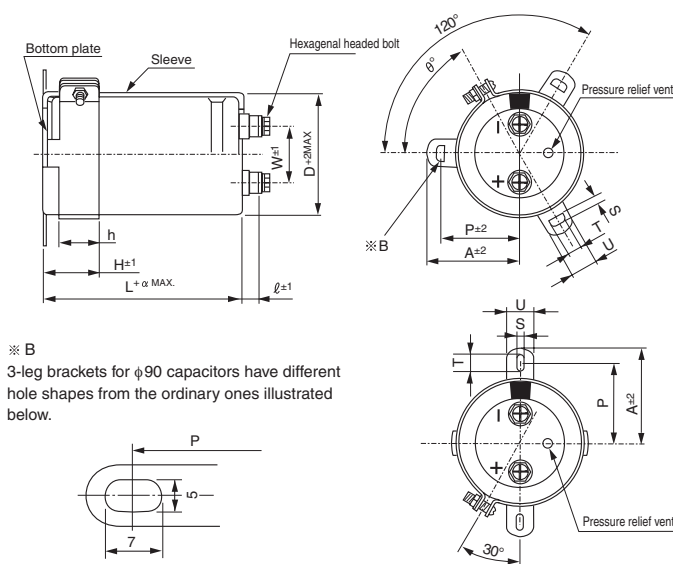
NY



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 $3\sqrt{CV}$ (μA) or 5 mA, whichever is smaller. (at 20°C) [C : Rated Capacitance(μF), V : Voltage (V)]		
Tangent of loss angle (tan δ)	0.25MAX. (120Hz at 20°C)		
Stability at Low Temperature	Rated voltage(V)	350 to 450	Measurement frequency : 120Hz
	Impedance ratio ZT/Z20(MAX.)	Z - 40°C / Z+20°C	
		12	
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)

1	2	3	4	5	6	7	8	9	10	11	12	13	14
L	N	Y	2	G	1	0	3	M	S	E	J		

Configuration*
Capacitance tolerance (±20%)
Rated Capacitance (10000µF)
Rated Voltage (400V)
Series name
Type

Case dia. code
φD Code
51 F
63.5 G
76.2 H
90 J

Mounting bracket
(φ51 to φ90)
3-leg brackets Code less
2-leg brackets BB
No brackets BN

※ Configuration

Cr (III) Plating (RoHS compliant)
SE

Please refer to page 328 for schematic of dimensions.

※ 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)

Leg shape	3-Leg				2-Leg			
	51	63.5	76.2	90	51	63.5	76.2	90
Symbol	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.8100D

NY series

■ 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	LN2V152MSEF
1800	51 × 70	10.0	0.25	2.38	LN2V182MSEF
2200	51 × 80	11.1	0.25	2.63	LN2V222MSEF
2700	51 × 90	12.2	0.25	2.92	LN2V272MSEF
	63.5 × 65	11.9	0.25	2.92	LN2V272MSEG
3300	51 × 105	13.8	0.25	3.22	LN2V332MSEF
	63.5 × 75	13.1	0.25	3.22	LN2V332MSEG
3900	51 × 130	14.8	0.25	3.50	LN2V392MSEF
	63.5 × 80	14.1	0.25	3.50	LN2V392MSEG
4700	51 × 140	15.9	0.25	3.85	LN2V472MSEF
	63.5 × 90	15.8	0.25	3.85	LN2V472MSEG
	76.2 × 70	15.7	0.25	3.85	LN2V472MSEH
5600	63.5 × 100	17.1	0.25	4.20	LN2V562MSEG
	76.2 × 85	17.0	0.25	4.20	LN2V562MSEH
6800	63.5 × 125	19.2	0.25	4.63	LN2V682MSEG
	76.2 × 95	18.8	0.25	4.63	LN2V682MSEH
8200	63.5 × 145	20.6	0.25	5.00	LN2V822MSEG
	76.2 × 105	20.2	0.25	5.00	LN2V822MSEH
10000	63.5 × 165	23.2	0.25	5.00	LN2V103MSEG
	76.2 × 125	23.5	0.25	5.00	LN2V103MSEH
	90 × 95	23.5	0.25	5.00	LN2V103MSEJ
12000	76.2 × 150	24.0	0.25	5.00	LN2V123MSEH
	90 × 110	24.1	0.25	5.00	LN2V123MSEJ
15000	76.2 × 190	28.0	0.25	5.00	LN2V153MSEH
	90 × 140	29.2	0.25	5.00	LN2V153MSEJ
18000	76.2 × 210	30.2	0.25	5.00	LN2V183MSEH
	90 × 155	31.1	0.25	5.00	LN2V183MSEJ
22000	90 × 190	35.4	0.25	5.00	LN2V223MSEJ

400V (2G)					
Cap. (μF)	Size φD × L (mm)	Rated ripple (Arms)	tan δ	Leakage Current (mA)	Code
1000	51 × 60	6.4	0.25	1.90	LN2G102MSEF
1200	51 × 65	7.1	0.25	2.08	LN2G122MSEF
1500	51 × 75	8.1	0.25	2.32	LN2G152MSEF
1800	51 × 85	8.7	0.25	2.55	LN2G182MSEF
	63.5 × 65	9.1	0.25	2.55	LN2G182MSEG
2200	51 × 95	9.6	0.25	2.81	LN2G222MSEF
	63.5 × 75	10.1	0.25	2.81	LN2G222MSEG
2700	51 × 115	10.5	0.25	3.12	LN2G272MSEF
	63.5 × 85	11.6	0.25	3.12	LN2G272MSEG
3300	51 × 145	12.4	0.25	3.45	LN2G332MSEF
	63.5 × 95	13.0	0.25	3.45	LN2G332MSEG
	76.2 × 105	13.8	0.25	3.75	LN2G332MSEH
3900	63.5 × 105	14.2	0.25	3.75	LN2G392MSEG
	76.2 × 85	14.6	0.25	3.75	LN2G392MSEH
	63.5 × 125	16.1	0.25	4.11	LN2G472MSEG
4700	76.2 × 95	16.2	0.25	4.11	LN2G472MSEH
5600	63.5 × 140	16.9	0.25	4.49	LN2G562MSEG
	76.2 × 105	17.6	0.25	4.49	LN2G562MSEH
6800	63.5 × 165	19.1	0.25	4.95	LN2G682MSEG
8200	63.5 × 210	21.2	0.25	5.00	LN2G822MSEG
	76.2 × 150	21.2	0.25	5.00	LN2G822MSEH
	90 × 120	21.0	0.25	5.00	LN2G822MSEJ
10000	76.2 × 170	22.4	0.25	5.00	LN2G103MSEH
	90 × 130	22.0	0.25	5.00	LN2G103MSEJ
12000	76.2 × 220	26.0	0.25	5.00	LN2G123MSEH
	90 × 155	26.0	0.25	5.00	LN2G123MSEJ
15000	90 × 190	28.3	0.25	5.00	LN2G153MSEJ
18000	90 × 230	30.6	0.25	5.00	LN2G183MSEJ

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	LN2W821MSEF
1000	51 × 70	5.5	0.25	2.01	LN2W102MSEF
1200	51 × 75	6.0	0.25	2.20	LN2W122MSEF
1500	51 × 85	6.8	0.25	2.46	LN2W152MSEF
	63.5 × 65	7.9	0.25	2.46	LN2W152MSEG
1800	51 × 95	7.9	0.25	2.70	LN2W182MSEF
	63.5 × 75	8.9	0.25	2.70	LN2W182MSEG
2200	51 × 125	9.2	0.25	2.98	LN2W222MSEF
	63.5 × 85	9.8	0.25	2.98	LN2W222MSEG
2700	51 × 145	10.3	0.25	3.31	LN2W272MSEF
	63.5 × 90	10.8	0.25	3.31	LN2W272MSEG
3300	51 × 170	11.1	0.25	3.66	LN2W332MSEF
	63.5 × 105	12.0	0.25	3.66	LN2W332MSEG
	76.2 × 85	12.6	0.25	3.66	LN2W332MSEH
3900	63.5 × 125	13.5	0.25	3.97	LN2W392MSEG
	76.2 × 95	14.0	0.25	3.97	LN2W392MSEH
4700	63.5 × 145	15.2	0.25	4.36	LN2W472MSEG
	76.2 × 105	15.6	0.25	4.36	LN2W472MSEH
5600	63.5 × 165	17.0	0.25	4.76	LN2W562MSEG
	76.2 × 125	17.6	0.25	4.76	LN2W562MSEH
6800	63.5 × 210	19.1	0.25	5.00	LN2W682MSEG
	76.2 × 150	19.6	0.25	5.00	LN2W682MSEH
	90 × 120	19.5	0.25	5.00	LN2W682MSEJ
8200	76.2 × 170	20.1	0.25	5.00	LN2W822MSEH
	90 × 130	20.1	0.25	5.00	LN2W822MSEJ
10000	76.2 × 210	23.0	0.25	5.00	LN2W103MSEH
	90 × 155	22.9	0.25	5.00	LN2W103MSEJ
12000	90 × 190	26.0	0.25	5.00	LN2W123MSEJ
15000	90 × 220	29.6	0.25	5.00	LN2W153MSEJ

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

● 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