

nichicon

Screw Terminal Type, 85°C Higher Capacitance

- NB**



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	<table border="1"> <tr> <td>Rated voltage(V)</td><td>350 to 450</td></tr> <tr> <td>Impedance ratio ZT/Z20(MAX.)</td><td>Z - 40°C / Z+20°C</td></tr> <tr> <td></td><td>12</td></tr> </table>	Rated voltage(V)	350 to 450	Impedance ratio ZT/Z20(MAX.)	Z - 40°C / Z+20°C		12	Measurement frequency : 120Hz	
Rated voltage(V)	350 to 450								
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.	<table border="1"> <tr> <td>Capacitance change</td><td>Within ±20% of the initial capacitance value</td></tr> <tr> <td>tan δ</td><td>300% or less than the initial specified value</td></tr> <tr> <td>Leakage current</td><td>Less than or equal to the initial specified value</td></tr> </table>	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	
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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.	<table border="1"> <tr> <td>Capacitance change</td><td>Within ±20% of the initial capacitance value</td></tr> <tr> <td>tan δ</td><td>300% or less than the initial specified value</td></tr> <tr> <td>Leakage current</td><td>Less than or equal to the initial specified value</td></tr> </table>	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	
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								

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

Mounting bracket

Configuration[※]

Capacitance tolerance (±20%)

Rated Capacitance (10000μF)

Rated Voltage (400V)

Series name

Type

Case dia. code (φ51 to φ90)

φD	Code
51	F
63.5	G
76.2	H
90	J

3-leg brackets

2-leg brackets

No brackets

Codeless

BB
BN

Cr (III) Plating (RoHS compliant)
SE

✱ Please contact to us if PVCless products are required.

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

Symbol	Leg shape ϕD	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

CAT.8100D

NY series

■ Dimensions

350V (2V)					
Cap. (μ F)	Size $\phi D \times L$ (mm)	Rated ripple (Arms)	$\tan \delta$	Leakage Current (mA)	Code
1500	51 $\times$ 60	9.3	0.25	2.17	LN2V152MSEF
1800	51 $\times$ 70	10.0	0.25	2.38	LN2V182MSEF
2200	51 $\times$ 80	11.1	0.25	2.63	LN2V222MSEF
2700	51 $\times$ 90	12.2	0.25	2.92	LN2V272MSEF
	63.5 $\times$ 65	11.9	0.25	2.92	LN2V272MSEG
3300	51 $\times$ 105	13.8	0.25	3.22	LN2V332MSEF
	63.5 $\times$ 75	13.1	0.25	3.22	LN2V332MSEG
3900	51 $\times$ 130	14.8	0.25	3.50	LN2V392MSEF
	63.5 $\times$ 80	14.1	0.25	3.50	LN2V392MSEG
4700	51 $\times$ 140	15.9	0.25	3.85	LN2V472MSEF
	63.5 $\times$ 90	15.8	0.25	3.85	LN2V472MSEG
	76.2 $\times$ 70	15.7	0.25	3.85	LN2V472MSEH
5600	63.5 $\times$ 100	17.1	0.25	4.20	LN2V562MSEG
	76.2 $\times$ 85	17.0	0.25	4.20	LN2V562MSEH
6800	63.5 $\times$ 125	19.2	0.25	4.63	LN2V682MSEG
	76.2 $\times$ 95	18.8	0.25	4.63	LN2V682MSEH
8200	63.5 $\times$ 145	20.6	0.25	5.00	LN2V822MSEG
	76.2 $\times$ 105	20.2	0.25	5.00	LN2V822MSEH
10000	63.5 $\times$ 165	23.2	0.25	5.00	LN2V103MSEG
	76.2 $\times$ 125	23.5	0.25	5.00	LN2V103MSEH
	90 $\times$ 95	23.5	0.25	5.00	LN2V103MSEJ
12000	76.2 $\times$ 150	24.0	0.25	5.00	LN2V123MSEH
	90 $\times$ 110	24.1	0.25	5.00	LN2V123MSEJ
15000	76.2 $\times$ 190	28.0	0.25	5.00	LN2V153MSEH
	90 $\times$ 140	29.2	0.25	5.00	LN2V153MSEJ
18000	76.2 $\times$ 210	30.2	0.25	5.00	LN2V183MSEH
	90 $\times$ 155	31.1	0.25	5.00	LN2V183MSEJ
22000	90 $\times$ 190	35.4	0.25	5.00	LN2V223MSEJ

400V (2G)					
Cap. (μ F)	Size $\phi D \times L$ (mm)	Rated ripple (Arms)	$\tan \delta$	Leakage Current (mA)	Code
1000	51 $\times$ 60	6.4	0.25	1.90	LN2G102MSEF
1200	51 $\times$ 65	7.1	0.25	2.08	LN2G122MSEF
1500	51 $\times$ 75	8.1	0.25	2.32	LN2G152MSEF
1800	51 $\times$ 85	8.7	0.25	2.55	LN2G182MSEF
	63.5 $\times$ 65	9.1	0.25	2.55	LN2G182MSEG
2200	51 $\times$ 95	9.6	0.25	2.81	LN2G222MSEF
	63.5 $\times$ 75	10.1	0.25	2.81	LN2G222MSEG
2700	51 $\times$ 115	10.5	0.25	3.12	LN2G272MSEF
	63.5 $\times$ 85	11.6	0.25	3.12	LN2G272MSEG
3300	51 $\times$ 145	12.4	0.25	3.45	LN2G332MSEF
	63.5 $\times$ 95	13.0	0.25	3.45	LN2G332MSEG
	76.2 $\times$ 110	13.8	0.25	3.75	LN2G332MSEH
3900	63.5 $\times$ 105	14.2	0.25	3.75	LN2G392MSEG
	76.2 $\times$ 85	14.6	0.25	3.75	LN2G392MSEH
	90 $\times$ 110	16.1	0.25	4.11	LN2G472MSEH
4700	63.5 $\times$ 125	16.1	0.25	4.11	LN2G472MSEG
	76.2 $\times$ 95	16.2	0.25	4.11	LN2G472MSEH
5600	63.5 $\times$ 140	16.9	0.25	4.49	LN2G562MSEG
	76.2 $\times$ 105	17.6	0.25	4.49	LN2G562MSEH
6800	63.5 $\times$ 165	19.1	0.25	4.95	LN2G682MSEG
8200	63.5 $\times$ 210	21.2	0.25	5.00	LN2G822MSEG
	76.2 $\times$ 150	21.2	0.25	5.00	LN2G822MSEH
	90 $\times$ 120	21.0	0.25	5.00	LN2G822MSEJ
10000	76.2 $\times$ 170	22.4	0.25	5.00	LN2G103MSEH
	90 $\times$ 130	22.0	0.25	5.00	LN2G103MSEJ
12000	76.2 $\times$ 220	26.0	0.25	5.00	LN2G123MSEH
	90 $\times$ 155	26.0	0.25	5.00	LN2G123MSEJ
15000	90 $\times$ 190	28.3	0.25	5.00	LN2G153MSEJ
18000	90 $\times$ 230	30.6	0.25	5.00	LN2G183MSEJ

450V (2W)					
Cap. (μ F)	Size $\phi D \times L$ (mm)	Rated ripple (Arms)	$\tan \delta$	Leakage Current (mA)	Code
820	51 $\times$ 60	4.9	0.25	1.82	LN2W821MSEF
1000	51 $\times$ 70	5.5	0.25	2.01	LN2W102MSEF
1200	51 $\times$ 75	6.0	0.25	2.20	LN2W122MSEF
1500	51 $\times$ 85	6.8	0.25	2.46	LN2W152MSEF
	63.5 $\times$ 65	7.9	0.25	2.46	LN2W152MSEG
1800	51 $\times$ 95	7.9	0.25	2.70	LN2W182MSEF
	63.5 $\times$ 75	8.9	0.25	2.70	LN2W182MSEG
2200	51 $\times$ 125	9.2	0.25	2.98	LN2W222MSEF
	63.5 $\times$ 85	9.8	0.25	2.98	LN2W222MSEG
2700	51 $\times$ 145	10.3	0.25	3.31	LN2W272MSEF
	63.5 $\times$ 90	10.8	0.25	3.31	LN2W272MSEG
3300	51 $\times$ 170	11.1	0.25	3.66	LN2W332MSEF
	63.5 $\times$ 105	12.0	0.25	3.66	LN2W332MSEG
	76.2 $\times$ 85	12.6	0.25	3.66	LN2W332MSEH
3900	63.5 $\times$ 125	13.5	0.25	3.97	LN2W392MSEG
	76.2 $\times$ 95	14.0	0.25	3.97	LN2W392MSEH
4700	63.5 $\times$ 145	15.2	0.25	4.36	LN2W472MSEG
	76.2 $\times$ 105	15.6	0.25	4.36	LN2W472MSEH
5600	63.5 $\times$ 165	17.0	0.25	4.76	LN2W562MSEG
	76.2 $\times$ 125	17.6	0.25	4.76	LN2W562MSEH
6800	63.5 $\times$ 210	19.1	0.25	5.00	LN2W682MSEG
	76.2 $\times$ 150	19.6	0.25	5.00	LN2W682MSEH
	90 $\times$ 120	19.5	0.25	5.00	LN2W682MSEJ
8200	76.2 $\times$ 170	20.1	0.25	5.00	LN2W822MSEH
	90 $\times$ 130	20.1	0.25	5.00	LN2W822MSEJ
10000	76.2 $\times$ 210	23.0	0.25	5.00	LN2W103MSEH
	90 $\times$ 155	22.9	0.25	5.00	LN2W103MSEJ
12000	90 $\times$ 190	26.0	0.25	5.00	LN2W123MSEJ
15000	90 $\times$ 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