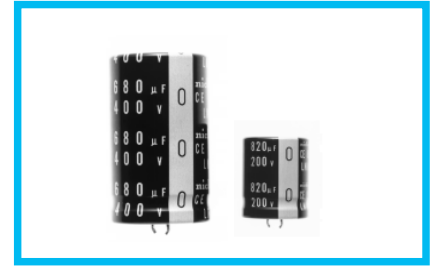
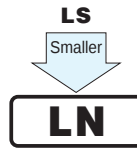


LNSnap-in Terminal Type, Ultra-Smaller-Sized
series

Smaller

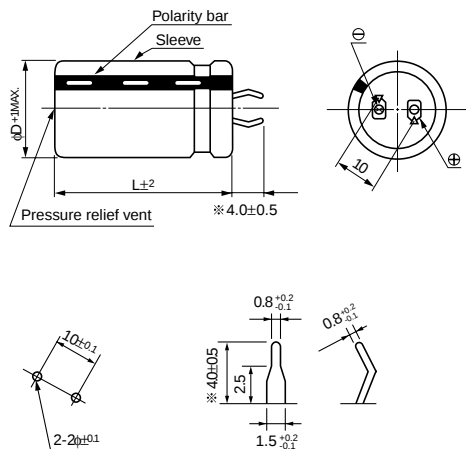
- Withstanding 2000 hours application of ripple current at 85°C.
- One rank smaller case sized than LS series.



■ Specifications

Item	Performance Characteristics									
Category Temperaturer Range	—40~+85°C(160~250V), —25~+85°C(400~450V)									
Rated Voltage Range	160~450V									
Rated Capacitance Range	68~3900μF									
Capacitance Tolerance	±20% at 120Hz, 20°C									
Leakage Current	I ≤ 3√CV (μA) (After 5 minutes' application of rated voltage)[C : Rated Capacitance (μF) V : Voltage(V)]									
tan δ	Rated voltage(V)	160~400	450	Measurement frequency : 120Hz, Temperature : 20°C						
	tan δ(MAX.)	0.15	0.20							
Stability at Low Temperature	Rated voltage(v)		160~250	350~450	Measurement frequency : 120Hz Temperature:20°C					
	Impedance ratio ZT/Z20(MAX.)	Z—25°C/Z+20°C	4	8						
Endurance	After an application of DC voltage (in the range of rated DC voltage even after over-lapping the specified ripple current) for 2000 hours at 85°C, capacitors meet the characteristic requirements listed at right.			<table><tr><td>Capacitance change</td><td>Within ±20% of initial value</td></tr><tr><td>tan δ</td><td>200% or less of initial specified value</td></tr><tr><td>Leakage current</td><td>Initial specified value or less</td></tr></table>	Capacitance change	Within ±20% of initial value	tan δ	200% or less of initial specified value	Leakage current	Initial specified value or less
Capacitance change	Within ±20% of initial value									
tan δ	200% or less of initial specified value									
Leakage current	Initial specified value or less									
Shelf Life	After leaving capacitors under no load at 85°C for 1000 hours, they meet the characteristic requirements listed at right.			<table><tr><td>Capacitance change</td><td>Within ±20% of initial value</td></tr><tr><td>tan δ</td><td>200% or less of initial specified value</td></tr><tr><td>Leakage current</td><td>Initial specified value or less</td></tr></table>	Capacitance change	Within ±20% of initial value	tan δ	200% or less of initial specified value	Leakage current	Initial specified value or less
Capacitance change	Within ±20% of initial value									
tan δ	200% or less of initial specified value									
Leakage current	Initial specified value or less									
Marking	Printed with white color letter on black sleeve.									

■ Drawing

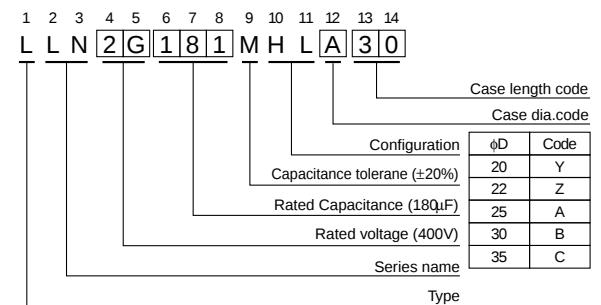


(PC board hole dimensions)

(Terminal dimensions)

* The other terminal is also available upon request.
Please refer to page 179 for schematic of dimensions.

Type numbering system (Example:400V 180μF)



Minimum order quantity : 50pcs.

■ Dimension table in next page.



■ Dimensions

160V(2C)					
Cap. (μF)	Size φD×L(mm)	Rated ripple (mA)	tan δ	Leakage Current (mA)	Code
390	20×25	1190	0.15	0.74	LLN2C391MHLY25
470	20×30	1760	0.15	0.82	LLN2C471MHLY30
	22×25	1760	0.15	0.82	LLN2C471MHLZ25
560	20×30	2250	0.15	0.89	LLN2C561MHLY30
	22×25	2250	0.15	0.89	LLN2C561MHLZ25
680	20×35	2500	0.15	0.98	LLN2C681MHLY35
	22×30	2500	0.15	0.98	LLN2C681MHLZ30
	25×25	2500	0.15	0.98	LLN2C681MHLA25
820	20×40	2750	0.15	1.08	LLN2C821MHLY40
	22×35	2750	0.15	1.08	LLN2C821MHLZ35
	25×30	2750	0.15	1.08	LLN2C821MHLA30
1000	22×40	3000	0.15	1.20	LLN2C102MHLZ40
	25×30	3000	0.15	1.20	LLN2C102MHLA30
	30×25	3000	0.15	1.20	LLN2C102MHLB25
1200	22×45	3250	0.15	1.31	LLN2C122MHLZ45
	25×35	3250	0.15	1.31	LLN2C122MHLA35
	30×30	3250	0.15	1.31	LLN2C122MHLB30
1500	25×45	3730	0.15	1.46	LLN2C152MHLA45
	30×35	3730	0.15	1.46	LLN2C152MHLB35
1800	25×50	4200	0.15	1.60	LLN2C182MHLA50
	30×35	4200	0.15	1.60	LLN2C182MHLB35
	35×30	4200	0.15	1.60	LLN2C182MHLB30
2200	30×45	4780	0.15	1.77	LLN2C222MHLB45
	35×35	4780	0.15	1.77	LLN2C222MHLB35
2700	30×50	5450	0.15	1.97	LLN2C272MHLB50
	35×40	5450	0.15	1.97	LLN2C272MHLB40
3300	35×45	5750	0.15	2.17	LLN2C332MHLB45
3900	35×50	6000	0.15	2.36	LLN2C392MHLB50

200V(2D)					
Cap. (μF)	Size φD×L(mm)	Rated ripple (mA)	tan δ	Leakage Current (mA)	Code
330	20×25	1440	0.15	0.77	LLN2D331MHLY25
390	20×30	1660	0.15	0.83	LLN2D391MHLY30
	22×25	1680	0.15	0.83	LLN2D391MHLZ25
470	20×35	2030	0.15	0.91	LLN2D471MHLY35
	22×30	1970	0.15	0.91	LLN2D471MHLZ30
	25×25	1950	0.15	0.91	LLN2D471MHLA25
560	22×30	2430	0.15	1.00	LLN2D561MHLZ30
	25×25	2430	0.15	1.00	LLN2D561MHLA25
680	22×35	2680	0.15	1.10	LLN2D681MHLZ35
	25×30	2680	0.15	1.10	LLN2D681MHLA30
	30×25	2680	0.15	1.10	LLN2D681MHLB25
820	22×40	2930	0.15	1.21	LLN2D821MHLZ40
	25×35	2930	0.15	1.21	LLN2D821MHLA35
	30×25	2930	0.15	1.21	LLN2D821MHLB25
1000	25×40	3250	0.15	1.34	LLN2D102MHLA40
	30×30	3250	0.15	1.34	LLN2D102MHLB30
	35×25	3250	0.15	1.34	LLN2D102MHLB25
1200	25×45	3500	0.15	1.46	LLN2D122MHLA45
	30×35	3610	0.15	1.46	LLN2D122MHLB35
	35×30	3570	0.15	1.46	LLN2D122MHLB30
1500	25×50	3870	0.15	1.64	LLN2D152MHLA50
	30×40	3870	0.15	1.64	LLN2D152MHLB40
	35×30	3870	0.15	1.64	LLN2D152MHLB30
1800	30×45	4320	0.15	1.80	LLN2D182MHLB45
	35×35	4320	0.15	1.80	LLN2D182MHLB35
2200	30×50	4920	0.15	1.98	LLN2D222MHLB50
	35×40	4920	0.15	1.98	LLN2D222MHLB40
2700	35×50	5450	0.15	2.20	LLN2D272MHLB50

250V(2E)					
Cap. (μF)	Size φD×L(mm)	Rated ripple (mA)	tan δ	Leakage Current (mA)	Code
220	20×25	1230	0.15	0.70	LLN2E221MHLY25
270	22×25	1310	0.15	0.77	LLN2E271MHLZ25
330	22×30	1750	0.15	0.86	LLN2E331MHLZ30
390	22×30	1910	0.15	0.93	LLN2E391MHLZ30
	25×25	1910	0.15	0.93	LLN2E391MHLA25
470	22×35	2110	0.15	1.02	LLN2E471MHLZ35
	25×30	2110	0.15	1.02	LLN2E471MHLA30
560	22×40	2250	0.15	1.12	LLN2E561MHLZ40
	25×30	2250	0.15	1.12	LLN2E561MHLA30
	30×25	2250	0.15	1.12	LLN2E561MHLB25
680	22×45	2500	0.15	1.23	LLN2E681MHLZ45
	25×35	2500	0.15	1.23	LLN2E681MHLA35
	30×30	2500	0.15	1.23	LLN2E681MHLB30
820	22×50	2770	0.15	1.35	LLN2E821MHLZ50
	25×40	2770	0.15	1.35	LLN2E821MHLA40
	30×30	2770	0.15	1.35	LLN2E821MHLB30
	35×25	2770	0.15	1.35	LLN2E821MHLB25
1000	25×50	3320	0.15	1.50	LLN2E102MHLA50
	30×35	3320	0.15	1.50	LLN2E102MHLB35
	35×30	3320	0.15	1.50	LLN2E102MHLB30
1200	30×40	3840	0.15	1.64	LLN2E122MHLB40
	35×35	3840	0.15	1.64	LLN2E122MHLB35
1500	30×50	4250	0.15	1.83	LLN2E152MHLB50
	35×40	4250	0.15	1.83	LLN2E152MHLB40
1800	35×45	4550	0.15	2.01	LLN2E182MHLB45

400V(2G)					
Cap. (μF)	Size φD×L(mm)	Rated ripple (mA)	tan δ	Leakage Current (mA)	Code
82	20×25	800	0.15	0.54	LLN2G820MHLY25
100	20×25	940	0.15	0.60	LLN2G101MHLY25
120	20×30	1080	0.15	0.65	LLN2G121MHLY30
	22×25	1080	0.15	0.65	LLN2G121MHLZ25
150	20×35	1210	0.15	0.73	LLN2G151MHLY35
	22×30	1210	0.15	0.73	LLN2G151MHLZ30
	25×25	1210	0.15	0.73	LLN2G151MHLA25
180	20×40	1450	0.15	0.80	LLN2G181MHLY40
	22×35	1450	0.15	0.80	LLN2G181MHLZ35
	25×30	1450	0.15	0.80	LLN2G181MHLA30
220	22×40	1580	0.15	0.88	LLN2G221MHLZ40
	25×30	1580	0.15	0.88	LLN2G221MHLA30
	30×25	1580	0.15	0.88	LLN2G221MHLB25
270	22×45	1670	0.15	0.98	LLN2G271MHLZ45
	25×35	1670	0.15	0.98	LLN2G271MHLA35
	30×25	1670	0.15	0.98	LLN2G271MHLB25
330	22×50	1900	0.15	1.08	LLN2G331MHLZ50
	25×40	1900	0.15	1.08	LLN2G331MHLA40
	30×30	1900	0.15	1.08	LLN2G331MHLB30
	35×25	1900	0.15	1.08	LLN2G331MHLB25
390	25×45	2130	0.15	1.18	LLN2G391MHLA45
	30×35	2130	0.15	1.18	LLN2G391MHLB35
	35×30	2130	0.15	1.18	LLN2G391MHLB30
470	30×40	2390	0.15	1.30	LLN2G471MHLB40
	35×30	2390	0.15	1.30	LLN2G471MHLB30
560	30×45	2690	0.15	1.41	LLN2G561MHLB45
	35×35	2690	0.15	1.41	LLN2G561MHLB35
680	30×50	2960	0.15	1.56	LLN2G681MHLB50
	35×40	2960	0.15	1.56	LLN2G681MHLB40
820	35×45	3250	0.15	1.71	LLN2G821MHLB45

Rated Ripple(mA rms)at 85°C 120Hz



Dimensions

450V(2W)					
Cap. (μ F)	Size ϕ D×L(mm)	Rated ripple (mA)	$\tan \delta$	Leakage Current (mA)	Code
68	20×25	660	0.20	0.52	LLN2W680MHLY25
82	20×25	830	0.20	0.57	LLN2W820MHLY25
100	20×30	930	0.20	0.63	LLN2W101MHLY30
	22×25	930	0.20	0.63	LLN2W101MHLZ25
120	20×35	1040	0.20	0.69	LLN2W121MHLY35
	22×30	1040	0.20	0.69	LLN2W121MHLZ30
	25×25	1040	0.20	0.69	LLN2W121MHLA25
150	20×40	1290	0.20	0.77	LLN2W151MHLY40
	22×35	1290	0.20	0.77	LLN2W151MHLZ35
	25×30	1290	0.20	0.77	LLN2W151MHLA30
180	22×40	1400	0.20	0.85	LLN2W181MHLZ40
	25×30	1400	0.20	0.85	LLN2W181MHLA30
	30×25	1400	0.20	0.85	LLN2W181MHLB25
220	22×45	1660	0.20	0.94	LLN2W221MHLZ45
	25×35	1660	0.20	0.94	LLN2W221MHLA35
	30×30	1660	0.20	0.94	LLN2W221MHLB30
270	22×50	1810	0.20	1.04	LLN2W271MHLZ50
	25×40	1810	0.20	1.04	LLN2W271MHLA40
	30×30	1810	0.20	1.04	LLN2W271MHLB30
	35×25	1810	0.20	1.04	LLN2W271MHLC25
330	25×50	2100	0.20	1.15	LLN2W331MHLA50
	30×35	2100	0.20	1.15	LLN2W331MHLB35
	35×30	2100	0.20	1.15	LLN2W331MHLC30
390	30×40	2320	0.20	1.25	LLN2W391MHLB40
	35×35	2320	0.20	1.25	LLN2W391MHLC35
470	30×45	2660	0.20	1.37	LLN2W471MHLB45
	35×40	2660	0.20	1.37	LLN2W471MHLC40
560	35×45	2820	0.20	1.50	LLN2W561MHLC45
680	35×50	3000	0.20	1.65	LLN2W681MHLC50

Rated Ripple(mA rms)at 85°C 120Hz

Frequency coefficient of rated ripple current

Frequency(Hz)		50	60	120	300	1k	10k	50k~
coeff	160~250V	0.81	0.85	1.00	1.17	1.32	1.45	1.50
	400~450V	0.77	0.82	1.00	1.16	1.30	1.41	1.43