

NL series

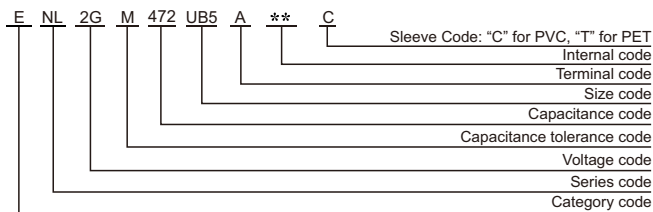
- Endurance with ripple current: 12,000 hours at 85°C
- Applications: Professional power supplies, solar and wind generator and frequency converters
- Detail specification: IEC 60384-4
- RoHS Compliant



SPECIFICATIONS

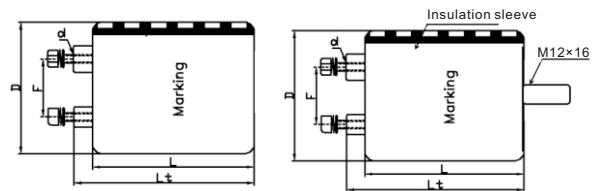
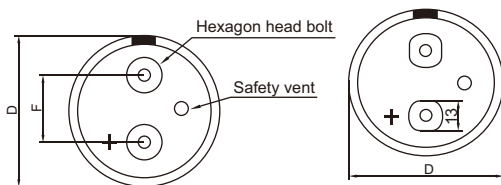
Items	Characteristics	
Category Temperature Range	-25~+85°C	
Rated Voltage Range	350~450 V _{dc}	
Capacitance Tolerance	±20% (M) (at 20°C, 120Hz)	
Leakage Current	$I=0.02CV$ (µA) or 5mA, whichever is smaller. Where, I: Max.leakage current (µA), C : Nominal capacitance (µF), V : Rated voltage (V) (at 20°C after 5 minutes)	
Dissipation Factor (tanδ)	0.20 (at 20°C, 120Hz)	
Low Temperature Characteristics	Capacitance Change $C(-25°C)/C(+20°C) \geq 0.7$ (at 120Hz)	
Endurance	The following specifications shall be satisfied when the capacitors are restored to 20°C after DC voltage plus the rated ripple current is applied for 12,000 hours at 85°C.	
	Capacitance Change	≤±20% of the initial value
	Dissipation Factor	≤200% of the initial specified value
	Leakage Current	≤The initial specified value
Shelf Life	The following specifications shall be satisfied when the capacitors are restored to 20°C after exposing them for 1,000 hours at 85°C without voltage applied.	
	Capacitance Change	≤±20% of the initial value
	Dissipation Factor	≤150% of the initial specified value
	Leakage current	≤200% of the initial specified value

PART NUMBERING SYSTEM



Terminal code	Internal code	Specification
A	0 0	Ring clip mounting Standard design
B	0 0	threaded stud Standard design
S	0 0	Ring clip mounting Special design
T	0 0	threaded stud Special design

DIMENSIONS(Screw-Mount)[mm]



D	51.6	64.3	76.9	91
F	22.2	28.5	31.7	31.7
d	M5	M5	M6orM5	M6orM5
L	L+3Max			
Lt	L+7.5Max	L+7.5Max	L+7.5Max	L+7.5Max

RATED RIPPLE CURRENT MULTIPLIERS

- Frequency correction factor for ripple current

Frequency(Hz)	50	120	300	1k	10k
Coefficient	0.8	1.0	1.1	1.3	1.4

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■ STANDARD RATINGS

WV (V _{dc})	Cap (μF)	Case size ΦD×L(mm)	tanδ	ESR typ. 120Hz 20°C mΩ	ESR max. 120Hz 20°C mΩ	Rated ripple current (Arms/85°C, 120Hz)	Part Number
350	1500	51.6×80	0.20	57	98	6.0	ENL2VM152S80*00C
	2200	51.6×105	0.20	45	78	7.8	ENL2VM222SA5*00C
	3300	64.3×115	0.20	36	53	10.5	ENL2VM332TB5*00C
	3900	64.3×130	0.20	32	47	12.6	ENL2VM392TD0*00C
	4700	76.9×105	0.20	30	43	14.0	ENL2VM472UA5*00C
	5600	76.9×115	0.20	27	37	15.5	ENL2VM562UB5*00C
	6800	76.9×130	0.20	23	34	18.1	ENL2VM682UD0*00C
	8200	76.9×155	0.20	20	28	21.5	ENL2VM822UF5*00C
	10000	91×157	0.20	16	24	24.6	ENL2VM103VF7*00C
	12000	91×196	0.20	14	22	29.0	ENL2VM123VJ6*00C
15000	91×220	0.20	11	18	34.1	ENL2VM153VM0*00C	
400	1500	51.6×80	0.20	58	89	6.1	ENL2GM152S80*00C
	1800	51.6×108	0.20	56	87	7.0	ENL2GM182SA8*00C
	2200	51.6×115	0.20	56	81	8.2	ENL2GM222SB5*00C
	2600	64.3×108	0.20	54	79	8.5	ENL2GM262TA8*00C
	3300	64.3×130	0.20	37	55	11.6	ENL2GM332TD0*00C
	3800	76.9×105	0.20	36	54	13.6	ENL2GM332UA5*00C
	3900	64.3×155	0.20	29	49	15.5	ENL2GM392TF5*00C
	4700	76.9×115	0.20	26	43	19.4	ENL2GM472UB5*00C
	5600	76.9×130	0.20	25	40	21.3	ENL2GM562UD0*00C
	6800	76.9×155	0.20	20	34	23.4	ENL2GM682UF5*00C
	8200	91×157	0.20	19	29	24.2	ENL2GM822VF7*00C
	10000	91×168	0.20	13	23	30.3	ENL2GM103VG8*00C
12000	91×196	0.20	11	19	35.5	ENL2GM123VJ6*00C	
450	1500	51.6×115	0.20	56	97	7.1	ENL2WM152SB5*00C
	2200	64.3×115	0.20	43	65	10.5	ENL2WM222TB5*00C
	3300	64.3×143	0.20	33	49	14.8	ENL2WM332TE3*00C
	3900	64.3×155	0.20	29	41	16.5	ENL2WM392TF5*00C
	4700	76.9×143	0.20	22	39	19.8	ENL2WM472UE3*00C
	5600	76.9×168	0.20	20	35	21.9	ENL2WM562UG8*00C
	6800	76.9×196	0.20	18	30	26.4	ENL2WM682UJ6*00C
	8200	91×168	0.20	16	24	29.6	ENL2WM822VG8*00C
	10000	91×196	0.20	15	21	31.8	ENL2WM103VJ6*00C

※ Specifications subject to change without notice.