

NS series

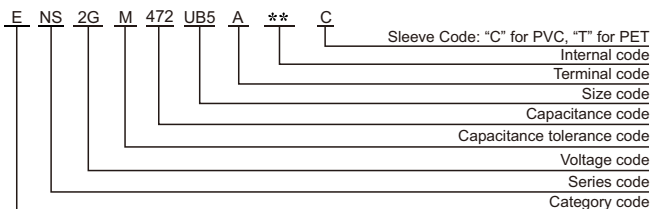
- Endurance with ripple current: 2,000 hours at 105°C
- Applications: Uninterruptible power supplies and frequency converters
- Detail specification: IEC 60384-4
- RoHS Compliant



SPECIFICATIONS

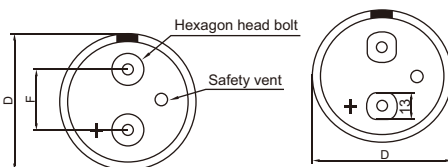
Items	Characteristics
Category Temperature Range	-25~+105°C
Rated Voltage Range	350~450 V _{dc}
Capacitance Tolerance	±20% (M) (at 20°C, 120Hz)
Leakage Current	$I=0.02CV$ [μA] or 5mA, whichever is smaller. Where, I: Max.leakage current (μA), C : Nominal capacitance (μF), V : Rated voltage (V) (at 20°C after 5 minutes)
Dissipation Factor (tanδ)	0.20 (at 20°C, 120Hz)
Low Temperature Characteristics	Capacitance Change $C(-25^{\circ}\text{C})/C(+20^{\circ}\text{C})\geq 0.7$ (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 2,000 hours at 105°C.
	Capacitance Change $\leq \pm 20\%$ of the initial value
	Dissipation Factor $\leq 200\%$ of the initial specified value
	Leakage Current $\leq$ 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 105°C without voltage applied.
	Capacitance Change $\leq \pm 20\%$ of the initial value
	Dissipation Factor $\leq 150\%$ of the initial specified value
	Leakage Current $\leq 200\%$ of the initial specified value

PART NUMBERING SYSTEM

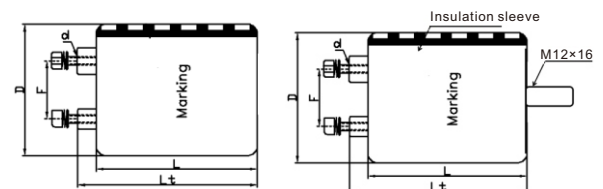


Terminal code	Internal code	Specification
A	0 0	Ring clip mounting Standard design
B	0 0	threaded stud Standard design
S	0 0	Ring clip mounting Special design
T	0 0	threaded stud Special design

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 coefficient 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)	Size ΦD×L(mm)	tanδ	ESR typ. 120Hz 20°C mΩ	ESR max. 120Hz 20°C mΩ	Rated ripple current (Arms/105°C, 120Hz)	Part Number
350	1000	51.6×80	0.20	108	157	2.60	ENS2VM102S80*00C
	1500	51.6×80	0.20	79	116	3.20	ENS2VM152S80*00C
	2200	51.6×96	0.20	57	81	4.20	ENS2VM222S96*00C
	3300	64.3×105	0.20	43	59	5.10	ENS2VM332TA5*00C
	3900	64.3×115	0.20	39	54	6.70	ENS2VM392TB5*00C
	4700	64.3×143	0.20	35	48	7.20	ENS2VM472TE3*00C
	5600	76.9×130	0.20	30	40	8.50	ENS2VM562UD0*00C
	6800	76.9×143	0.20	27	36	10.0	ENS2VM682UE3*00C
	8200	76.9×168	0.20	23	31	11.7	ENS2VM822UG8*00C
	10000	76.9×196	0.20	19	28	14.3	ENS2VM103UJ6*00C
	12000	76.9×220	0.20	17	25	16.8	ENS2VM123UM0*00C
	15000	91×196	0.20	16	24	18.3	ENS2VM153VJ6*00C
400	1000	51.6×80	0.20	109	158	3.00	ENS2GM102S80*00C
	1500	51.6×96	0.20	75	107	3.70	ENS2GM152S96*00C
	2200	64.3×105	0.20	35	76	4.60	ENS2GM222TA5*00C
	3300	64.3×130	0.20	31	53	6.40	ENS2GM332TD0*00C
	3300	64. 3×115	0.20	32	54	6.0	ENS2GM332TB5*00C
	3900	76.9×115	0.20	28	46	7.90	ENS2GM392UB5*00C
	3900	64. 3×130	0.20	29	47	7.50	ENS2GM392TD0*00C
	4700	76.9×130	0.20	23	40	8.50	ENS2GM472UD0*00C
	4700	76. 9×115	0.20	24	41	8.00	ENS2GM472UB5*00C
	5600	76.9×143	0.20	21	36	9.80	ENS2GM562UE3*00C
	5600	76. 9×130	0.20	22	37	9.50	ENS2GM562UD0*00C
	6800	76.9×168	0.20	14	31	10.5	ENS2GM682UG8*00C
	6800	76. 9×155	0.20	15	32	10.2	ENS2GM682UF5*00C
	8200	76.9×155	0.20	14	30	13.3	ENS2GM822UF5*00C
	10000	76.9×220	0.20	12	25	17.5	ENS2GM103UM0*00C
	10000	91×157	0.20	12	25	17.5	ENS2GM103VF7*00C
	12000	91×196	0.20	11	23	21.3	ENS2GM123VJ6*00C
450	1000	51.6×105	0.20	95	153	4.30	ENS2WM102SA5*00C
	1500	51.6×115	0.20	63	102	5.80	ENS2WM152SB5*00C
	2200	64.3×115	0.20	43	75	7.30	ENS2WM222TB5*00C
	3300	76.9×100	0.20	27	51	10.1	ENS2WM332UA0*00C
	3900	76.9×115	0.20	23	45	10.9	ENS2WM392UB5*00C
	4700	76.9×130	0.20	20	40	12.7	ENS2WM472UD0*00C
	5600	76.9×143	0.20	17	36	15.9	ENS2WM562UE3*00C
	6800	76.9×155	0.20	14	32	16.4	ENS2WM682UF5*00C
	8200	91×157	0.20	11	24	17.0	ENS2WM822VF7*00C
	10000	91×220	0.20	9	21	18.8	ENS2WM103VM0*00C

※ Specifications subject to change without notice.