

NR series

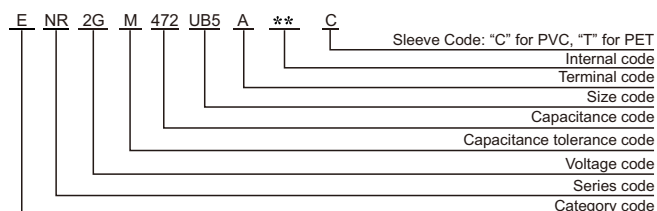
- Endurance with ripple current: 2,000 hours at 85°C
- Applications: Uninterruptible power supplies and Frequency converters
- Detail specification: IEC 60384-4
- RoHS Compliant



SPECIFICATIONS

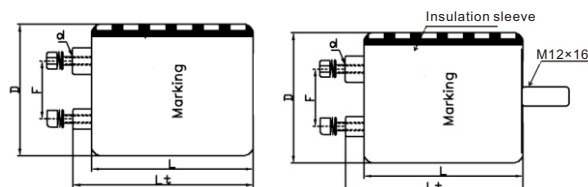
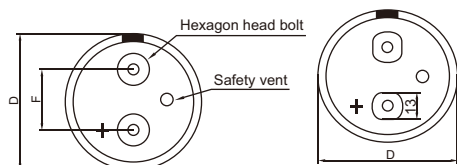
Items	Characteristics
Category Temperature Range	-25~+85°C
Rated Voltage Range	350~550 V _{dc}
Capacitance Tolerance	±20% (M) (at 20°C, 120Hz)
Leakage Current	I=0.02CV [μA] or 5mA, whichever is smaller. Where, I: Max.leakage current (μA), C : Nominal capacitance (μF), V : Rated voltage (V) (at 20°C after 5 minutes)
Dissipation Factor (tanδ)	0.20 (at 20°C, 120Hz)
Low Temperature Characteristics	Capacitance Change C(-25°C)/C(+20°C)≥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 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 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/85°C, 120Hz)	Part Number
350	1000	51.6×65	0.20	82	123	3.6	ENR2VM102S65*00C
	2200	51.6×105	0.20	51	77	7.6	ENR2VM222SA5*00C
	2700	64.3×96	0.20	46	68	8.9	ENR2VM272T96*00C
	3300	64.3×105	0.20	35	52	10.0	ENR2VM332TA5*00C
	3900	64.3×115	0.20	31	46	11.4	ENR2VM392TB5*00C
	4700	76.9×105	0.20	28	42	13.5	ENR2VM472UA5*00C
	5600	76.9×115	0.20	24	35	15.4	ENR2VM562UB5*00C
	6800	76.9×143	0.20	21	31	17.3	ENR2VM682UE3*00C
	8200	76.9×168	0.20	18	27	19.8	ENR2VM822UG8*00C
	10000	91×157	0.20	15	22	23.7	ENR2VM103VF7*00C
	12000	91×168	0.20	13	19	24.3	ENR2VM123VG8*00C
	15000	91×196	0.20	11	16	29.2	ENR2VM153VJ6*00C
400	1000	51.6×65	0.20	88	131	3.7	ENR2GM102S65*00C
	2200	51.6×115	0.20	58	87	7.5	ENR2GM222SB5*00C
	2700	64.3×96	0.20	47	71	9.0	ENR2GM272T96*00C
	3300	64.3×115	0.20	39	58	10.6	ENR2GM332TB5*00C
	3900	64.3×130	0.20	33	49	12.5	ENR2GM392TD0*00C
	3900	64.3×115	0.20	34	50	12.0	ENR2GM392TB5*00C
	4700	76.9×115	0.20	30	45	14.1	ENR2GM472UB5*00C
	4700	76.9×113	0.20	30	45	14.0	ENR2GM472UB3*00C
	4700	76.9×105	0.20	32	47	13.5	ENR2GM472UA5*00C
	4700	64.3×130	0.20	34	49	13.0	ENR2GM472TD0*00C
	5600	76.9×130	0.20	26	39	16.8	ENR2GM562UD0*00C
	5600	76.9×115	0.20	27	40	16.5	ENR2GM562UB5*00C
	6800	76.9×130	0.20	26	37	17.0	ENR2GM682UD0*00C
	6800	76.9×143	0.20	25	36	17.4	ENR2GM682UE3*00C
	6800	76.9×155	0.20	24	35	17.6	ENR2GM682UF5*00C
	8200	76.9×155	0.20	20	30	20.5	ENR2GM822UF5*00C
	8200	91×157	0.20	19	29	21.5	ENR2GM822VF7*00C
	10000	91×157	0.20	17	26	22.8	ENR2GM103VF7*00C
	10000	91×155	0.20	17	27	22.0	ENR2GM103VF5*00C
	10000	91×130	0.20	18	28	21.3	ENR2GM103VD0*00C
	12000	91×157	0.20	17	25	24.5	ENR2GM123VJ6*00C
	12000	91×196	0.20	15	22	26.6	ENR2GM123VJ6*00C
	15000	91×220	0.20	13	18	27.4	ENR2GM153VM0*00C
	15000	91×196	0.20	14	19	26.0	ENR2GM153VJ6*00C
450	1800	51.6×130	0.20	68	102	6.5	ENR2WM182SD0*00C
	2200	64.3×96	0.20	56	83	7.8	ENR2WM222T96*00C
	2700	64.3×115	0.20	45	68	8.8	ENR2WM272TB5*00C
	3300	64.3×130	0.20	37	55	10.7	ENR2WM332TD0*00C
	3900	76.9×115	0.20	31	46	12.0	ENR2WM392UB5*00C
	3900	64.3×130	0.20	33	47	11.5	ENR2WM392TD0*00C
	4700	76.9×130	0.20	27	41	14.1	ENR2WM472UD0*00C
	4700	76.9×115	0.20	28	42	14.0	ENR2WM472UB5*00C
	5600	76.9×155	0.20	25	38	16.0	ENR2WM562UF5*00C
	5600	76.9×130	0.20	26	39	15.5	ENR2WM562UD0*00C
	6800	76.9×155	0.20	21	31	18.5	ENR2WM682UF5*00C
	6800	76.9×143	0.20	22	32	18.0	ENR2WM682UE3*00C
	8200	91×157	0.20	17	28	19.1	ENR2WM822VF7*00C
	8200	76.9×155	0.20	18	30	19.0	ENR2WM822UF5*00C

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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 (A _{rms} /85°C, 120Hz)	Part Number
450	10000	91×196	0.20	13	25	21.2	ENR2WM103VJ6*00C
	10000	91×157	0.20	14	26	21.0	ENR2WM103VF5*00C
	12000	91×220	0.20	11	22	23.7	ENR2WM123VM0*00C
500	2200	64.3×115	0.25	54	80	7.3	ENR2HM222TB5*00C
	2700	64.3×130	0.25	43	64	8.5	ENR2HM272TD0*00C
	3300	76.9×115	0.25	36	53	10.0	ENR2HM332UB5*00C
	3900	76.9×130	0.25	30	47	11.4	ENR2HM392UD0*00C
	4700	76.9×155	0.25	27	40	13.3	ENR2HM472UF5*00C
	5600	91×157	0.25	25	38	14.8	ENR2HM562VF7*00C
	8200	91×196	0.25	16	26	18.1	ENR2HM822VJ6*00C
	10000	91×220	0.25	15	24	22.2	ENR2HM103VM0*00V
550	1500	64.3×115	0.30	60	95	7.0	ENR2JM152TB5*00C
	2200	76.9×105	0.30	52	78	8.1	ENR2JM222UA5*00C
	2700	76.9×115	0.30	42	62	9.0	ENR2JM272UB5*00C
	3300	76.9×130	0.30	35	51	10.5	ENR2JM332UD0*00C
	3900	76.9×155	0.30	29	45	11.0	ENR2JM392UF5*00C
	4700	91×157	0.30	26	38	12.9	ENR2JM472VF7*00C

※ Specifications subject to change without notice.