

# Screw Type Aluminum Electrolytic Capacitors

# NF [ Long Life for Inverter ]

Specially For Higher Voltage with Compact Size



## DESCRIPTION

Endurance : 85°C, 5000 Hours

Higher voltage with compact size, to be used in inverters.

### MULTIPLIER FOR RIPPLE CURRENT

Frequency Coefficient

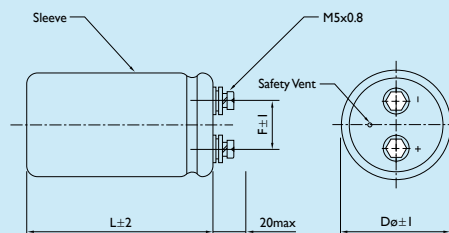
FREQUENCY (Hz)	50	60	100(120)	300	1K	≥10K
FACTOR	0.70	0.70	1.00	1.10	1.30	1.40

## ELECTRICAL CHARACTERISTICS

Operating Temperature Range	-40 to +85°C		
Rated Voltage Range	400V, 450V		
Rated Capacitance Range	1800 ~ 22000μF		
Capacitance Tolerance	±20% (120Hz, +20°C)		
Leakage Current	I = 0.01CV or 5mA Whichever is smaller. (After 5 Minutes Application of DC Voltage at 20°C)		
Dissipation Factor at 120Hz, +20°C	Rate Voltage (V)	400	450
	tan δ	0.15	0.15
Endurance	After the rated voltage has been applied at 85°C for 5000 hours, and then has resumed its original condition for 16 hours. (a) Capacitance Change: ±15% Initial Measured Value (b) Dissipation Factor: ≤ 1.75 Times Initial Specified Value (c) Leakage Current: ≤ Initial Specified Value		
Shelf Life	After having been stored for 1000 hours at 85°C, the rated voltage has been applied for 30 minutes, and then has resumed its original condition for 16 hours. (a) Capacitance Change: ±15% Initial Measured Value (b) Dissipation Factor: ≤ 1.75 Times Initial Specified Value (c) Leakage Current: ≤ Initial Specified Value		

## DIAGRAM OF DIMENSIONS

Unit: mm



Dø	F
51	22
63.5	28.6
76	32
89	32
101	41.5

**CASE SIZE & PERMISSIBLE RIPPLE CURRENT OF STANDARD PRODUCTS**

D x L: mm

CAP. (μF)	RATED VOLTAGE WV (SURGE VOLTAGE WV)					
	400 (450) SIZE			450 (500) SIZE		
		RIPPLE CURRENT	DISSIPATION FACTOR		RIPPLE CURRENT	DISSIPATION FACTOR
1800				51 x 115	7.60	0.15
2200	51 x 115	8.80	0.15	51 x 130	8.80	0.15
2700	51 x 130	10.20	0.15	63.5 x 95	9.50	0.15
3300	63.5 x 95	11.00	0.15	63.5 x 115	11.20	0.15
3900	63.5 x 115	12.80	0.15	63.5 x 130	12.80	0.15
4700	63.5 x 130	14.80	0.15	76 x 115	14.10	0.15
5600	76 x 115	16.20	0.15	76 x 130	16.20	0.15
6800	76 x 130	18.70	0.15	76 x 155	19.10	0.15
8200	76 x 155	22.00	0.15	76 x 195	23.00	0.15
				89 x 130	21.00	0.15
10000	76 x 195	26.70	0.15	89 x 170	25.70	0.15
	89 x 130	24.20	0.15			
12000	89 x 155	28.50	0.15	89 x 195	29.70	0.15
				101 x 175	29.30	0.15
15000	89 x 195	34.80	0.15	89 x 235	35.90	0.15
				101 x 195	34.20	0.15
18000	89 x 235	41.20	0.15	101 x 235	40.20	0.15
22000	101 x 235	47.00	0.15			

Note: 1. Ripple Current: (A/rms) 85°C, 120Hz

2. Dissipation Factor: 120Hz / 20°C