NIPPON CHEMI-CON

LARGE CAPACITANCE ALUMINUM ELECTROLYTIC CAPACITORS Inverter-use screw terminal, 85℃

FTP Series



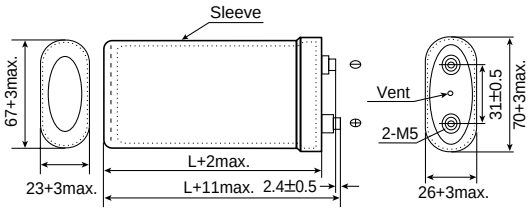
- Ideal for inverter smoothing capacitors such as Electric Vehicle, Hybrid Car, etc.
- Endurance with ripple current : 85℃ 5000 hours
- Rated voltage range : 63 to 450Vdc
- Lower profile offers drastic space saving comparing to conventional cylindrical type
- Superior heat radiation realizes higher ripple current

◆SPECIFICATIONS

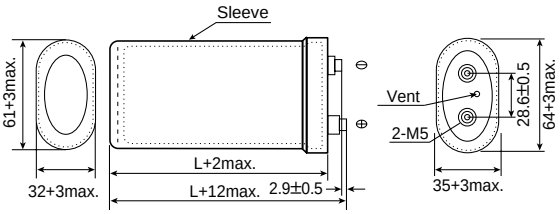
Items	Characteristics
Category Temperature Range	−40 to +85℃ (63～100Vdc), −25 to +85℃ (350～450Vdc)
Rated Voltage Range	63 to 450Vdc
Capacitance Tolerance	±20% (M) (at 20℃, 120Hz)
Leakage Current	I=0.02CV or 5mA, whichever is smaller. Where, I : Max. leakage current (μA), C : Nominal capacitance (μF), V : Rated voltage (V) (at 20℃ after 5 minutes)
Dissipation Factor (tanδ)	0.25 max. (at 20℃, 120Hz)
Low Temperature Characteristics	Capacitance change 63 to 100Vdc : C(-40℃)/C(+20℃)≧0.6 350 to 450Vdc : C(-25℃)/C(+20℃)≧0.7 (at 120Hz)
Endurance	The following specifications shall be satisfied when the capacitors are restored to 20℃ after subjected to DC voltage with the rated ripple current is applied for 5000 hours at 85℃. Capacitance change: ≦±20% of the initial value D.F. (tanδ): ≦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℃ after exposing them for 1000 hours at 85℃ without voltage applied. Capacitance change: ≦±20% of the initial value D.F. (tanδ): ≦200% of the initial specified value Leakage current: ≦The initial specified value

◆DIMENSIONS (Screw-Mount) [mm]

- Terminal Code : LG
- Size Code : L



- Size Code : R



<Screw specifications>
Plus hexagon-headed screw: M5×0.8
Maximum screw tightening torque: 3.23Nm

◆PART NUMBERING SYSTEM

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18
E	F	T	P				L	G	N				M				N

Supplement code
Size code
Capacitance tolerance code
Capacitance code (ex. 270μF:271,10000μF:103)
Mounting clamp code
Terminal code
Voltage code (ex. 63V:630,100V:101,450V:451)
Series code
Category

Please refer to "A guide to global code (screw-mount terminal type)"

CAT. No. E1001E

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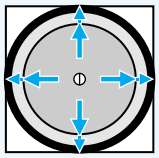
◆STANDARD RATINGS

WV (Vdc)	Cap (μF)	Case size HXWXL(mm)	tanδ	Rated ripple current (Arms/ 85℃,10kHz)	Part No.
63	6000	26X70X50	0.25	14.0	EFTP630LGN602ML50N
	12000	26X70X75	0.25	19.0	EFTP630LGN123ML75N
	17000	26X70X95	0.25	22.0	EFTP630LGN173ML95N
	7400	35X64X50	0.25	16.1	EFTP630LGN742MR50N
	15000	35X64X75	0.25	21.7	EFTP630LGN153MR75N
	21000	35X64X95	0.25	25.3	EFTP630LGN213MR95N
80	4300	26X70X50	0.25	14.0	EFTP800LGN432ML50N
	8600	26X70X75	0.25	19.0	EFTP800LGN862ML75N
	12000	26X70X95	0.25	22.0	EFTP800LGN123ML95N
	5300	35X64X50	0.25	16.1	EFTP800LGN532MR50N
	10000	35X64X75	0.25	21.7	EFTP800LGN103MR75N
	15000	35X64X95	0.25	25.3	EFTP800LGN153MR95N
100	2900	26X70X50	0.25	14.0	EFTP101LGN292ML50N
	5700	26X70X75	0.25	19.0	EFTP101LGN572ML75N
	8100	26X70X95	0.25	22.0	EFTP101LGN812ML95N
	3600	35X64X50	0.25	16.1	EFTP101LGN362MR50N
	7100	35X64X75	0.25	21.7	EFTP101LGN712MR75N
	10000	35X64X95	0.25	25.3	EFTP101LGN103MR95N

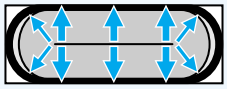
WV (Vdc)	Cap (μF)	Case size HXWXL(mm)	tanδ	Rated ripple current (Arms/ 85℃,10kHz)	Part No.
350	400	26X70X50	0.25	10.6	EFTP351LGN401ML50N
	800	26X70X75	0.25	15.7	EFTP351LGN801ML75N
	1100	26X70X95	0.25	18.7	EFTP351LGN112ML95N
	490	35X64X50	0.25	11.9	EFTP351LGN491MR50N
	970	35X64X75	0.25	17.6	EFTP351LGN971MR75N
	1400	35X64X95	0.25	21.0	EFTP351LGN142MR95N
400	330	26X70X50	0.25	10.6	EFTP401LGN331ML50N
	660	26X70X75	0.25	15.7	EFTP401LGN661ML75N
	930	26X70X95	0.25	18.7	EFTP401LGN931ML95N
	400	35X64X50	0.25	11.9	EFTP401LGN401MR50N
	800	35X64X75	0.25	17.6	EFTP401LGN801MR75N
	1100	35X64X95	0.25	21.0	EFTP401LGN112MR95N
450	270	26X70X50	0.25	10.1	EFTP451LGN271ML50N
	540	26X70X75	0.25	15.0	EFTP451LGN541ML75N
	760	26X70X95	0.25	18.0	EFTP451LGN761ML95N
	330	35X64X50	0.25	11.4	EFTP451LGN331MR50N
	660	35X64X75	0.25	16.7	EFTP451LGN661MR75N
	930	35X64X95	0.25	20.1	EFTP451LGN931MR95N

◆Improvement of space factor and heat radiation

Dead spaces are found for the conventional cylindrial shape. But lower profile offers small dead spaces, and makes the equipments smaller in size. Moreover, the internal element of the lower profile capacitor is widely touched to the can. This largely improves the heat radiation compared to the cylindrical shape.



Cylindrical shape



FTP series