

FST70 Series 螺栓型铝电解电容器标准品

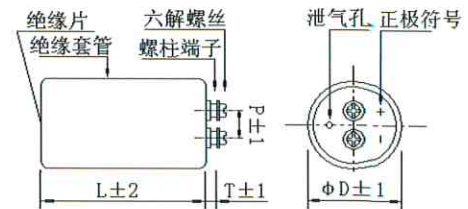
Standard Aluminum Electrolytic Capacitor of Screw Terminal Type

- 螺栓型铝电解电容器 ● 低中压标准品系列
- 法拉级大容量系列 ● 寿命: +85°C, 2000 小时。
- Screw terminal type aluminum electrolytic capacitors low/medium-voltage
- standard product
- Lifetime: +85°C, 2000 Hr.



主要技术性能 Specifications

使用温度范围 Operating Temperature Range	-25 ~ +85°C
额定电压范围 Rated Voltage Range	6.3 ~ 250V DC
标称电容量允许偏差 Capacitance Tolerance	±20% (120Hz, 20°C)
漏电流(20°C) Leakage Current	$I \leq 0.01C_0 U_0 (\mu A)$ 或 5mA 取较小值, (2 分钟) $C \geq 0.2F, 3\sqrt{CV} (\mu A)$ $I \leq 0.01C_0 U_0 (\mu A)$ or 5mA Whichever is smaller (after 2 minutes)
损耗角正切值(120Hz 20°C) Dissipation Factor	标准品额定表的值以下 Less than the value specified in the standard products table
允许纹波电流(120Hz 40°C) Permissible ripple current (120Hz 40°C)	按标准品额定表中的规定 As specified in the standard products table.
耐久性 Load Life	85°C施加额定电压(叠加规定的纹波电流)2000 小时后,性能符合: After the rated voltage with specified ripple current is applied at 85°C for 2000 hours. 静电容量变化率: 初期值的 ±15% 以内 Capacitance tolerance: ±15% or less of the initial value 损耗解正切: 规定值的 175% 以下 Dissipation factor: 175% or less of the specified value. 漏电流: 规定值以下 Leakage current: Specified value or less



(unit: mm)

Φd	P	S	T	盖板材料
36	12.7	M5 X 10	7.0	PPS
51	22.0	M5 X 10	5.5	PPS
64	28.0	M5 X 10	5.5	PPS
77	32.0	M5 X 10	5.0	PPS

额定电压 Rated Voltage Code (V)	静电容量 Capacitance (μF)	外形尺寸 Case size φD × L (mm)	tan δ 20°C 120HZ	纹波电流 Ripple current 40°C 120HZ (A rms)	ESR (typ.) 20°C, 100HZ (mΩ)	Z max 20°C 10KHZ (mΩ)	ESL (typ.) (nH)	品名编号 Product Number
6.3 0J (8)	47000	36 × 53	1.00	13.4	47	40	18	FST700J473M3653
	68000	36 × 65	1.20	14.8	33	30	18	FST700J683M3665
	100000	36 × 83	1.20	19.7	22	22	18	FST700J104M3683
	150000	51 × 83	1.40	25.6	15	16	21	FST700J154M5183
	220000	51 × 100	1.40	33.5	11	12	21	FST700J224M51100
	330000	64 × 100	1.50	43.6	8	9	22	FST700J334M64100
	470000	64 × 121	1.80	50.8	7	8	22	FST700J474M64121
10 1A (13)	680000	77 × 121	2.90	54.4	5	7	24	FST700J684M77121
	33000	36 × 83	0.90	11.9	25	24	18	FST701A333M3653
	47000	36 × 65	0.90	15.2	18	19	18	FST701A473M3665
	68000	36 × 83	1.20	20.3	13	14	18	FST701A683M3683
	100000	36 × 121	1.20	25.0	11	12	18	FST701A104M36121
	150000	51 × 123	1.40	27.6	7	7	21	FST701A154M5183
	220000	51 × 121	1.50	37.6	5	6	21	FST701A224M51121
16 1C (20)	330000	64 × 121	1.80	46.5	5	6	22	FST701A334M64121
	470000	77 × 121	2.30	52.0	4	6	24	FST701A474M77121
	22000	36 × 53	0.80	11.2	25	26	18	FST701C223M3653
	33000	36 × 65	0.80	14.8	17	18	18	FST701C333M3665
	47000	36 × 83	0.80	19.6	12	13	18	FST701C473M3683
	68000	36 × 121	1.10	27.7	11	12	18	FST701C6833M6121
	100000	51 × 83	1.10	29.4	8	8	21	FST701C104M5183
	150000	51 × 121	1.20	34.0	5	6	21	FST701C154M51121
	220000	64 × 100	1.40	39.7	4	6	22	FST701C224M64100
	330000	77 × 121	1.80	49.2	4	6	24	FST701C334M77121
	470000	77 × 144	1.80	53.8	4	5	24	FST701C474M77144
	680000	77 × 155	1.80	58.2	3	5	24	FST701C684M77155
	1000000	77 × 195	1.80	64.8	3	4	24	FST701C105M77195
	1500000	77 × 218	1.90	66.1	2	4	24	FST701C155M77216
	2200000	77 × 260	2.00	68.5	2	3	24	FST701C225M77260
3300000	90 × 196	2.80	72.7	2	3	24	FST701C335M90196	
4000000	101 × 237	3.00	78.9	2	3	24	FST701C405M101237	
5000000	101 × 260	3.00	82.7	2	3	24	FST701C505M101260	

FST70 Series

■ 标称电容量、额定电压、额定纹波电流及外形尺寸对应表

Nominal capacitance, rated voltage, rated ripple current and case size table

额定电压 Rated Voltage Code (V)	静电容量 Capacitance (μ F)	外形尺寸 Case size ϕ D \times L (mm)	$\tan \delta$ 20°C 20HZ	纹波电流 Ripple current 40°C 120HZ (A rms)	ESR (typ.) 20°C, 100HZ (m Ω)	Z max 0°C 10KHZ (m Ω)	ESL (typ.) (nH)	品名编号 Product Number
25 1E (32)	22000	36 \times 65	0.50	12.1	22	23	18	FST701E223M3665
	33000	36 \times 83	0.90	14.2	15	16	18	FST701E333M3683
	47000	36 \times 121	0.90	19.8	10	11	18	FST701E473M36121
	68000	51 \times 100	0.90	25.1	7	8	21	FST701E683M51100
	100000	51 \times 121	0.90	28.5	6	6	21	FST701E104M51121
	150000	64 \times 100	1.20	34.7	5	6	22	FST701E154M64100
	220000	64 \times 144	1.20	48.9	4	5	22	FST701E224M64144
	330000	77 \times 144	1.40	52.7	4	5	24	FST701E334M77144
35 1V (44)	10000	36 \times 53	0.40	9.6	29	31	18	FST701V103M3653
	15000	36 \times 65	0.45	10.7	19	20	18	FST701V153M3665
	22000	36 \times 83	0.45	13.4	14	15	18	FST701V223M3683
	330000	36 \times 121	0.50	19.4	12	13	18	FST701V333M36121
	47000	51 \times 83	0.50	22.5	8	9	21	FST701V473M5183
	68000	51 \times 100	0.70	27.6	7	8	21	FST701V683M51100
	100000	64 \times 100	1.00	29.5	6	7	22	FST701V104M64100
	150000	64 \times 144	1.00	41.4	5	7	22	FST701V154M64144
50 1H (63)	220000	77 \times 144	1.20	46.8	5	7	24	FST701V224M77144
	6800	36 \times 53	0.35	8.8	44	39	18	FST701H682M3653
	10000	36 \times 65	0.35	11.6	30	28	18	FST701H103M3665
	15000	36 \times 83	0.35	12.7	20	20	18	FST701H153M3683
	22000	36 \times 121	0.40	18.2	14	15	18	FST701H223M36121
	33000	51 \times 83	0.40	20.3	13	14	21	FST701H333M5183
	47000	51 \times 100	0.50	25.9	11	12	21	FST701H473M51100
	68000	64 \times 100	0.70	32.2	8	9	22	FST701H683M64100
63 1J (79)	100000	64 \times 144	0.70	36.8	6	7	22	FST701H104M64144
	150000	77 \times 144	0.90	37.8	5	7	24	FST701H154M77144
	6800	36 \times 53	0.20	10.2	38	35	18	FST701J682M3653
	10000	36 \times 83	0.30	12.8	28	28	18	FST701J103M3683
	15000	36 \times 100	0.35	15.1	21	22	18	FST701J153M36100
	22000	51 \times 83	0.40	20.9	13	14	21	FST701J223M5183
	33000	51 \times 100	0.40	23.6	10	11	21	FST701J333M51100
	47000	64 \times 100	0.40	32.1	8	9	22	FST701J473M64100
80 1K (100)	68000	64 \times 144	0.50	37.2	7	8	22	FST701J683M64144
	100000	77 \times 144	0.70	41.1	7	8	24	FST701J104M77144
	4700	36 \times 53	0.15	10.4	32	30	18	FST701K472M3653
	6800	36 \times 83	0.22	12.1	22	23	18	FST701K682M3683
	10000	36 \times 100	0.22	16.0	15	16	18	FST701K103M36100
	15000	51 \times 83	0.30	20.7	10	11	21	FST701K153M5183
	22000	51 \times 100	0.30	23.5	9	10	21	FST701K223M51100
	33000	64 \times 100	0.35	28.5	7	7	22	FST701K333M64100
100 2A (125)	47000	64 \times 144	0.35	39.0	6	7	22	FST701K473M64144
	68000	77 \times 144	0.40	45.3	4	7	24	FST701K683M77144
	3300	36 \times 53	0.15	8.7	34	32	18	FST702A332M3653
	4700	36 \times 83	0.15	12.4	24	24	18	FST702A472M3683
	6800	36 \times 100	0.20	13.2	19	20	18	FST702A682M36100
	10000	51 \times 83	0.20	16.9	13	14	21	FST702A103M5183
	15000	51 \times 121	0.20	24.1	11	12	21	FST702A153M51121
	22000	64 \times 100	0.20	25.9	8	9	22	FST702A223M64100
160 2C (200)	33000	64 \times 144	0.25	33.0	6	7	22	FST702A333M64144
	47000	77 \times 144	0.30	37.6	5	7	24	FST702A473M77144
	1500	36 \times 83	0.25	6.9	87	80	18	FST702C152M3683
	2200	36 \times 100	0.25	9.2	59	53	18	FST702C222M36100
	3300	51 \times 83	0.25	12.0	40	35	21	FST702C332M5183
	4700	51 \times 100	0.25	15.3	30	25	21	FST702C472M51100
	6800	64 \times 100	0.25	20.4	22	23	22	FST702C682M64100
	10000	64 \times 121	0.25	26.5	15	16	22	FST702C82M64121
200 2D (250)	15000	77 \times 121	0.25	34.4	14	14	24	FST702C103M64121
	1000	36 \times 65	0.25	5.2	120	100	18	FST702D102M3665
	1500	36 \times 83	0.25	6.9	100	85	18	FST702D152M3683
	2200	36 \times 121	0.25	9.9	68	60	18	FST702D222M36121
	3300	51 \times 83	0.25	12.0	45	35	21	FST702D332M5183
	4700	51 \times 121	0.25	16.6	31	27	21	FST702D472M51121
	6800	64 \times 121	0.25	21.9	21	20	22	FST702D682M64121
	10000	77 \times 121	0.25	28.1	14	14	24	FST702D103M77121
250 2E (300)	1000	36 \times 83	0.25	5.6	84	70	18	FST702E102M3683
	1500	36 \times 121	0.25	8.1	56	50	18	FST702E152M36121
	2200	51 \times 83	0.25	9.9	50	45	21	FST702E222M5183
	3300	51 \times 121	0.25	13.9	36	35	21	FST702E332M51121
	4700	64 \times 100	0.25	16.9	25	23	22	FST702E472M64100
	6800	64 \times 144	0.25	23.5	18	18	22	FST702E682M64144
	10000	77 \times 144	0.25	30.0	13	13	24	FST702E103M77144

■ 纹波电流修正系数 Ripple current correction coefficient

环境温度 (°C) Temperature (°C)	40	60	70	85	
修正系数 Correction coefficient	1.0	0.81	0.62	0.37	
频率 (Hz) Frequency (°C)	50/60	120	300	1K	\geq 10K
修正系数 Correction coefficient	0.8	1.0	1.1	1.3	1.4