

SMD Aluminum Electrolytic Capacitor – JCF

FEATURES

- > 105°C 3,000 to 5,000hours
- > Solvent proof (within 2 minutes)

SPECIFICATIONS

Operating Temperature -55°C ~ +105°C
 Voltage Range 6.3V ~ 100V.DC
 Capacitance Tolerance ±20% at 120Hz, 20°C
 Leakage Current The greater value of either 0.01CV or 3μA
 Condition: μA/after 2minutes (max)

Dissipation Factor (Tan δ) Measurement Frequency: 120Hz, Temperature: 20°C

Rated Voltage (V)	6.3	10	16	25	35	50	63	80	100
Surge voltage (V)	8.0	13	20	32	44	63	79	100	125
Tanδ (MAX)	Ø4~Ø10	0.24	0.20	0.18	0.16	0.14	0.12	0.12	0.12
	Ø12.5~Ø16	0.28	0.24	0.20	0.18	0.16	0.14	0.14	0.14

Impedance ratio at low temperature

Based on the value at 120Hz, +20°C

Rated Voltage (V)	6.3, 10, 16	25, 35, 50	63, 80, 100
Impedance Ratio ZT / Z20 (Max.)	Z (-25°C) / Z(20°C)	3	2
	Z (-55°C) / Z(20°C)	4	3

Endurance

105°C rated voltage applied (With the rated ripple current)

Test	φ4 to φ6.3, φ10×7.7 and φ8×6.5: 3,000hours, φ8top16: 5,000hours
Capacitance Change	Within ± 30% of initial value
Dissipation Factor	Less than 300% of the specified value
Leakage Current	Less than the specified value



Fig 1



Fig 2

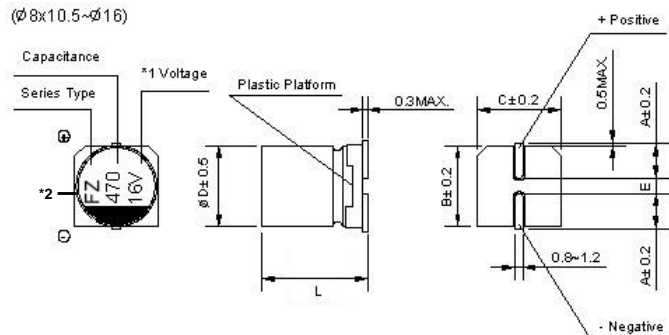
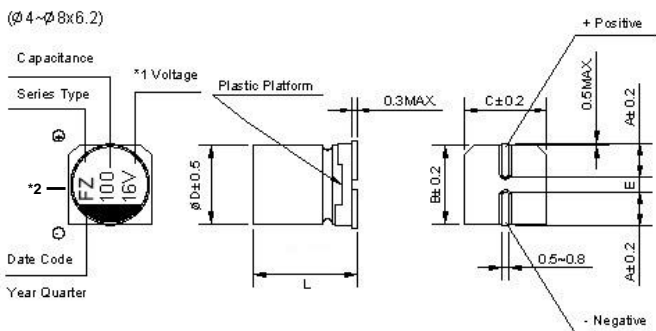


Fig 3

Note: Fig 1 & 2: Diameter 4 ~ 10mm

Fig 3 : Diameter: ≥12.5mm

DRAWING (Unit: mm)



*1 Voltage mark for 6.3V is [6V] or [6.3V]

*2 Surface Marking Types: jbF, jF, FZ

ØDxL	4x5.8	5x5.□	6.3x5.8/7.7	8 x6.5/10.5	10x7.7	10x10.5/13.5	12.5 x13.5/16	16 x16.5
A	1.8	2.1	2.4	3.3	3.2	3.2	4.7	5.5
B	4.3	5.3	6.6	8.3	10.3	10.3	13	17
C	4.3	5.3	6.6	8.3	10.3	10.3	13	17
E	1.0	1.3	2.2	3.1	4.4	4.4	4.4	6.4
L	5.8±0.6	5.8±0.6	5.8/7.7±0.6	6.5/10.5±0.6	7.7±0.6	10.5/13.5±1.0	13.5/16±1.0	16.5±1.0

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Frequency coefficient Factor of Rated Ripple current

Frequency: F(Hz)	100≤F<1k	1k≤F<10k	10k≤F<100k	100k≤F
Capacitance: C (uF)				
C≤33	0.35	0.70	0.90	1.00
33<C≤150	0.40	0.85	0.92	1.00
150<C	0.60	0.85	0.95	1.00

DIMENSIONS & MAXIMUM PERMISSIBLE RIPPLE CURRENT & IMPEDANCE

WV/V		6.3			10			16		
Cap/μF		0J			1A			1C		
4.7	4R7	--	--	--	--	--	--	--	--	--
10	100	--	--	--	--	--	--	--	--	--
15	150	--	--	--	--	--	--	4×5.8	1.45	90
22	220	--	--	--	4×5.8	1.45	90	5×5.8	0.76	170
27	270	4×5.8	1.45	90	5×5.8	0.76	170	5×5.8	0.76	170
33	330	5×5.8	0.76	170	5×5.8	0.76	170	6.3×5.8	0.44	250
47	470	5×5.8	0.76	170	6.3×5.8	0.44	250	6.3×5.8	0.44	250
56	560	5×5.8	0.76	170	6.3×5.8	0.44	250	6.3×5.8	0.44	250
68	680	6.3×5.8	0.44	250	6.3×5.8	0.44	250	6.3×5.8	0.44	250
100	101	5×5.8 (6.3×5.8)	0.76 (0.44)	170 (250)	6.3×5.8	0.44	250	6.3×5.8	0.44	250
150	151	6.3×5.8	0.44	250	6.3×5.8	0.44	250	6.3×7.7 (8×6.5)	0.34 (0.34)	300 (300)
220	221	6.3×5.8	0.44	250	6.3×7.7 (8×6.5)	0.34 (0.34)	300 (300)	6.3×7.7	0.34	300
330	331	6.3×7.7 (8×6.5)	0.30 (0.34)	300 (300)	8×10.5	0.17	600	8×10.5 (10×7.7)	0.17 (0.17)	600 (600)
470	471	8×10.5	0.17	600	8×10.5 (10×7.7)	0.17 (0.17)	600 (600)	8×10.5	0.17	600
680	681	8×10.5 (10×7.7)	0.17 (0.17)	600 (600)	10×10.5	0.09	850	10×10.5	0.09	850
1000	102	8×10.5	0.17	600	10×10.5	0.09	850	Case size:φDxL (mm)	Impedance (Ω) max at 100kHz, 20℃	Rated ripple current mArms (100kHz, 105℃)
1500	152	10×10.5	0.09	850	--	--	--			

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DIMENSIONS & MAXIMUM PERMISSIBLE RIPPLE CURRENT & IMPEDANCE

WV/V		25			35			50		
Cap/μF		1E			1V			1H		
4.7	4R7	--	--	--	4×5.8	1.45	90	4×5.8	2.90	60
10	100	4×5.8	1.45	90	5×5.8	0.76	170	6.3×5.8	0.88	165
15	150	5×5.8	0.76	170	5×5.8	0.76	170	--	--	--
22	220	5×5.8	0.76	170	5×5.8	0.76	170	6.3×5.8	0.88	165
27	270	6.3×5.8	0.44	250	6.3×5.8	0.44	250	6.3×7.7	0.68	195
33	330	6.3×5.8	0.44	250	6.3×5.8	0.44	250	6.3×7.7	0.68	195
47	470	6.3×5.8	0.44	250	6.3×5.8	0.44	250	6.3×7.7	0.68	195
56	560	6.3×5.8	0.44	250	6.3×7.7	0.34	300	8×10.5	0.34	350
68	680	6.3×5.8	0.44	250	6.3×7.7	0.34	300	8×10.5	0.34	350
100	101	6.3×7.7 (8×6.5)	0.34 (0.34)	300 (300)	6.3×7.7 (8×10.5)	0.34 (0.17)	300 (600)	8×10.5 (10×7.7)	0.34 (0.34)	350 (330)
150	151	8×10.5	0.17	600	8×10.5 (10×7.7)	0.17 (0.17)	600 (600)	10×10.5	0.18	670
220	221	8×10.5 (10×7.7)	0.17 (0.17)	600 (600)	8×10.5	0.17	600	10×10.5	0.18	670
330	331	8×10.5	0.17	600	10×10.5	0.09	850	Case size:φDxL (mm)	Impedance (Ω) max at 100kHz, 20°C	Rated ripple current mArms (100kHz, 105°C)
470	471	10×10.5	0.09	850	--	--	--			

WV/V		63			80			100		
Cap/μF		1J			1K			2A		
4.7	4R7	5×5.8	1.90	70	--	--	--	6.3×5.8	3.00	80
10	100	6.3×5.8	1.50	80	--	--	--	6.3×7.7	2.40	120
22	220	6.3×7.7	1.20	120	--	--	--	8×10.5	1.30	130
27	270	--	--	--	10×10.5	0.70	200	--	--	--
33	330	8×6.5	1.20	120	--	--	--	10×10.5	0.65	200
47	470	10×7.7	0.70	200	10×10.5	0.65	200	--	--	--
56	560	10×10.5	0.50	300	--	--	--	--	--	--
68	680	--	--	--	--	--	--	--	--	--
100	101	--	--	--	--	--	--	--	--	--
150	151	--	--	--	--	--	--	Case size:φDxL (mm)	Impedance (Ω) max at 100kHz, 20°C	Rated ripple current mArms (100kHz, 105°C)
220	221	--	--	--	--	--	--			

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