

# SMD Aluminum Electrolytic Capacitor – JCF

## FEATURES

- Impedance 5~25% less than JCZ series
- Extra low impedance with temperature range -55°C to +105°C and load life of 2000-5000 hour



## SPECIFICATIONS

Operating Temperature: -55°C ~ +105°C  
 Voltage Range: 6.3V ~ 100V.DC  
 Capacitance Range: 3.3 ~ 6800μF  
 Capacitance Tolerance: ±20% at 120Hz, 20°C  
 Leakage Current: For Ø4~Ø10, After 2 minutes' application of rated voltage, leakage current is not more than 0.01CV or 3μA, whichever is greater.  
 For Ø12.5~Ø16, After 1 minutes' application of rated voltage, leakage current is not more than 0.03CV or 4μA, whichever is greater.

Dissipation Factor (Tan δ)

Measurement Frequency: 120Hz, Temperature: 20°C

Rated Voltage (V)	6.3	10	16	25	35	50	63	80	100
Tanδ (MAX)	0.26	0.19	0.16	0.14	0.12	0.10	0.08	0.08	0.07
	Ø4~Ø10	0.26	0.22	0.18	0.16	0.14	0.10	0.08	0.07
	Ø12.5~Ø16								

Stability At Low Temp.

Measurement Frequency: 120Hz

Rated Voltage (V)	6.3	10	16	25, 35, 50, 63, 80, 100
Impedance Ratio Z (-25°C) / Z(20°C)	2	2	2	2
ZT / Z20 (Max.)	3	3	3	3
	Z (-40°C) / Z(20°C)	4	4	4
	Z (-55°C) / Z(20°C)			

Load Life

After 5000 hours (2000 hours for Ø4~Ø6.3 and for Ø8\*6.2 3000 hours for Ø8\*10.5~Ø10\*13.5) application of rated voltage at 105°C capacitors meet the characteristics requirements listed below.

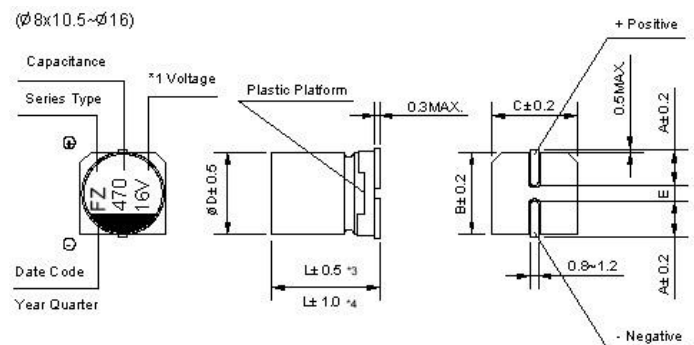
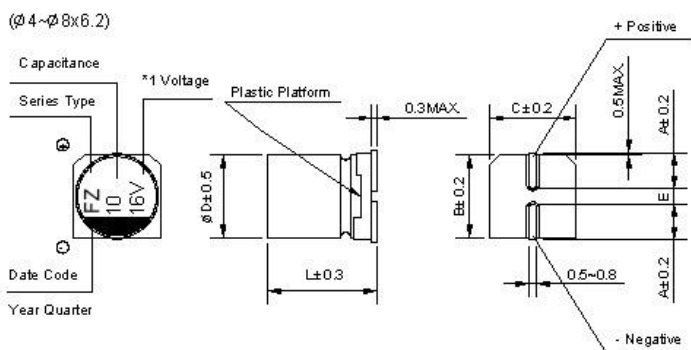
Capacitance Change	Within ± 30% of initial value
Dissipation Factor	200% or less of initial specified value
Leakage Current	Initial specified value or less

Resistance to Soldering Heat

After reflow soldering according and restored at room temperature, they meet the characteristics requirements listed below.

Capacitance Change	Within ± 10% of initial value
Dissipation Factor	Initial specified value or less
Leakage Current	Initial specified value or less

## DRAWING (Unit: mm)



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

\*3 [L±0.5] is applicable to Ø8×10.5~Ø10

\*4 [L±1.0] is applicable to Ø12.5~Ø16.

ØDxL	4x5.8	5x5.8	6.3x5.8/7.7	8 x6.2	8x10.5	10x10.5/13.5	12.5 x13.5/16	16 x16.5/21.5
A	1.8	2.1	2.4	3.3	2.9	3.2	4.7	5.5
V	4.3	5.3	6.6	8.3	8.3	10.3	13	17
C	4.3	5.3	6.6	8.3	8.3	10.3	13	17
E	10	1.3	2.2	2.2	3.1	4.5	4.4	6.7
L	5.8	5.8	5.8/7.7	6.2	10.5	10.5/13.5	13.5	16.5/21.5

Please visit our website to get more update data, those data & specification are subject to change without notice.

## SMD Aluminum Electrolytic Capacitor – JCF

### Frequency coefficient Factor of Rated Ripple current

Frequency Capacitance (uF)		50Hz	120Hz	300Hz	1kHz	10kHz~
Ø4~Ø10	4.7~68	0.35	0.50	0.64	0.83	1.00
	100~1500	0.40	0.55	0.70	0.85	1.00
Ø12.5~Ø16	~68	0.40	0.55	0.70	0.85	1.00
	100~680	0.45	0.65	0.80	0.90	1.00
	1000~6800	0.65	0.85	0.95	1.00	1.00

### DIMENSIONS & MAXIMUM PERMISSIBLE RIPPLE CURRENT & IMPEDANCE

WV/V Cap/µF		6.3			10			16		
		0J			1A			1C		
10	100	--	--	--	--	--	--	4×5.8	1.35	90
15	150	--	--	--	--	--	--	4×5.8	1.35	90
22	220	4×5.8	1.35	90	4×5.8	1.35	90	5×5.8 (4×5.8)	0.7 (1.35)	160 (90)
33	330	5×5.8 (4×5.8)	0.7 (1.35)	160 (90)	5×5.8 (4×5.8)	0.7 (1.35)	160 (90)	6.3×5.8 (5×5.8)	0.36 (0.7)	240 (160)
47	470	5×5.8 (4×5.8)	0.7 (1.35)	160 (90)	6.3×5.8 (5×5.8)	0.36 (0.7)	240 (160)	6.3×5.8 (5×5.8)	0.36 (0.7)	240 (160)
56	560	5×5.8	0.7	160	6.3×5.8	0.36	240	6.3×5.8	0.36	240
68	680	6.3×5.8 (5×5.8)	0.36 (0.7)	240 (160)	6.3×5.8	0.36	240	6.3×7.7 (6.3×5.8)	0.26 (0.36)	300 (240)
100	101	6.3×5.8 (5×5.8)	0.36 (0.7)	240 (160)	6.3×7.7 (6.3×5.8)	0.26 (0.36)	300 (240)	6.3×7.7 (6.3×5.8)	0.26 (0.36)	300 (240)
150	151	6.3×5.8	0.36	240	6.3×7.7	0.26	300	6.3×7.7	0.26	300
220	221	6.3×7.7 (6.3×5.8) (8×6.2)	0.26 (0.36) (0.26)	300 (240) (300)	6.3×7.7 (8×6.2)	0.26 (0.26)	300 (300)	8×10.5 (6.3×7.7)	0.16 (0.26)	600 (300)
330	331	6.3×7.7 (8×6.2)	0.26 (0.26)	300 (300)	10×10.5 (8×10.5)	0.08 (0.16)	850 (600)	10×10.5 (8×10.5)	0.08 (0.16)	850 (600)
470	471	8×10.5	0.16	600	10×10.5 (8×10.5)	0.08 (0.16)	850 (600)	10×10.5 (8×10.5)	0.08 (0.16)	850 (600)
680	681	10×10.5 (8×10.5)	0.08 (0.16)	850 (600)	10×10.5	0.08	850	10×13.5 (10×10.5)	0.07 (0.08)	950 (850)
1000	102	10×10.5 (8×10.5)	0.08 (0.16)	850 (600)	10×13.5 (10×10.5)	0.07 (0.08)	950 (850)	16×16.5 (12.5×16) (12.5×13.5)	0.05 (0.055) (0.06)	1450 (1200) (1100)
1500	152	10×13.5 (10×10.5)	0.07 (0.08)	950 (850)	12.5×13.5	0.06	1100	16×16.5	0.05	1450
2200	222	12.5×13.5	0.06	1100	12.5×16	0.055	1200	16×21.5	0.035	1750
3300	332	12.5×16	0.055	1200	16×16.5	0.05	1450	16×21.5	0.035	1750
4700	472	16×16.5	0.05	1450	16×21.5	0.035	1750			Ripple Current
6800	682	16×21.5	0.035	1750	--	--	--	Case size	Impedance	

Please visit our website to get more update data, those data & specification are subject to change without notice.



Just your best choice

## SMD Aluminum Electrolytic Capacitor – JCF

### DIMENSIONS & MAXIMUM PERMISSIBLE RIPPLE CURRENT & IMPEDANCE

WV/V Cap/μF		25			35			50		
		1E			1V			1H		
4.7	4R7	--	--	--	4×5.8	1.35	90	5×5.8 (4×5.8)	1.52 (2.9)	85 (60)
10	100	4×5.8	1.35	90	5×5.8 (4×5.8)	0.7 (1.35)	160 (90)	6.3×5.8 (5×5.8)	0.88 (1.52)	165 (85)
15	150	5×5.8	0.7	160	5×5.8	0.7	160	6.3×5.8	0.88	165
22	220	6.3×5.8 (5×5.8)	0.36 (0.7)	240 (160)	6.3×5.8 (5×5.8)	0.36 (0.7)	240 (160)	6.3×7.7 (6.3×5.8) (8×6.2)	0.68 (0.88) (0.68)	195 (165) (195)
33	330	6.3×5.8 (5×5.8)	0.36 (0.7)	240 (160)	6.3×5.8 (8×6.2)	0.36 (0.26)	240 (300)	6.3×7.7 (8×6.2)	0.68 (0.68)	195 (195)
47	470	6.3×7.7 (6.3×5.8) (8×6.2)	0.26 (0.36) (0.26)	300 (240) (300)	6.3×7.7 (6.3×5.8) (8×6.2)	0.26 (0.36) (0.26)	300 (240) (300)	6.3×7.7 (8×6.2)	0.68 (0.68)	195 (195)
56	560	6.3×7.7 (6.3×5.8)	0.26 (0.36)	300 (240)	6.3×7.7	0.26	300	8×10.5	0.34	350
68	680	6.3×7.7	0.26	300	6.3×7.7	0.26	300	8×10.5	0.34	350
100	101	6.3×7.7 (8×6.2)	0.26 (0.26)	300 (300)	8×10.5	0.16	600	10×10.5 (8×10.5)	0.18 (0.34)	670 (350)
150	151	8×10.5 (6.3×7.7)	0.16 (0.26)	600 (300)	10×10.5 (8×10.5)	0.08 (0.16)	850 (600)	10×10.5	0.18	670
220	221	8×10.5	0.16	600	10×10.5 (8×10.5)	0.08 (0.16)	850 (600)	10×13.5 (10×10.5)	0.14 (0.18)	780 (670)
330	331	10×10.5 (8×10.5)	0.08 (0.16)	850 (600)	10×10.5	0.08	850	12.5×13.5	0.12	900
470	471	10×13.5 (10×10.5)	0.07 (0.08)	950 (850)	12.5×13.5 (10×13.5)	0.06 (0.07)	1100 (950)	16×16.5 (12.5×16)	0.08 (0.1)	1250 (1050)
680	681	12.5×13.5	0.06	1100	12.5×16	0.055	1200	16×21.5	0.06	1450
1000	102	16×16.5 (12.5×16)	0.05 (0.055)	1450 (1200)	16×16.5	0.05	1450	--	--	--
1500	152	16×16.5	0.05	1450	16×21.5	0.035	1750	--	--	Ripple Current
2200	222	16×21.5	0.035	1750	--	--	--	Case size	Impedance	Current

WV/V Cap/μF		63			80			100		
		1J			1K			2A		
3.3	3R3	--	--	--	5×5.8	5.0	25	--	--	--
4.7	4R7	5×5.8	3.0	50	6.3×5.8	3.0	40	--	--	--
10	100	6.3×7.7 (6.3×5.8)	1.2 (1.5)	120 (80)	6.3×7.7 (8×6.2)	2.4 (2.4)	60 (60)	8×10.5	1.3	130
22	220	8×10.5 (6.3×7.7) (8×6.2)	0.65 (1.2) (1.2)	250 (120) (120)	8×10.5	1.3	130	10×10.5 (8×10.5)	0.7 (1.3)	200 (130)
33	330	8×10.5	0.65	250	8×10.5	1.3	130	10×10.5	0.7	200
47	470	8×10.5	0.65	250	10×10.5	0.7	200	12.5×13.5 (10×13.5)	0.32 (0.6)	500 (250)
68	680	12.5×13.5 (8×10.5)	0.16 (0.65)	800 (250)	12.5×13.5	0.32	500	12.5×13.5	0.32	500
100	101	12.5×13.5 (10×10.5)	0.16 (0.35)	800 (400)	12.5×13.5	0.32	500	16×16.5 (12.5×16)	0.17 (0.26)	795 (550)
150	151	12.5×13.5 (10×13.5)	0.16 (0.25)	800 (650)	12.5×13.5	0.32	500	--	--	--
220	221	12.5×13.5 (10×13.5)	0.16 (0.25)	800 (650)	12.5×16	0.26	550	16×21.5	0.15	920
330	331	16×16.5	0.082	1400	16×16.5	0.17	795	--	--	Ripple Current
470	471	16×21.5	0.08	1700	16×21.5	0.15	920	Case size	Impedance	Current

Max. Impedance (Ω) at 20°C 100kHz, Allowable Ripple current (mA) at 105°C 100kHz

Please visit our website to get more update data, those data & specification are subject to change without notice.