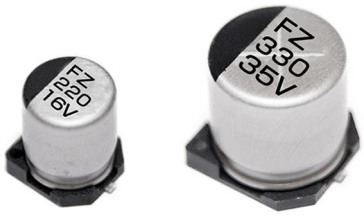
WFZ Series

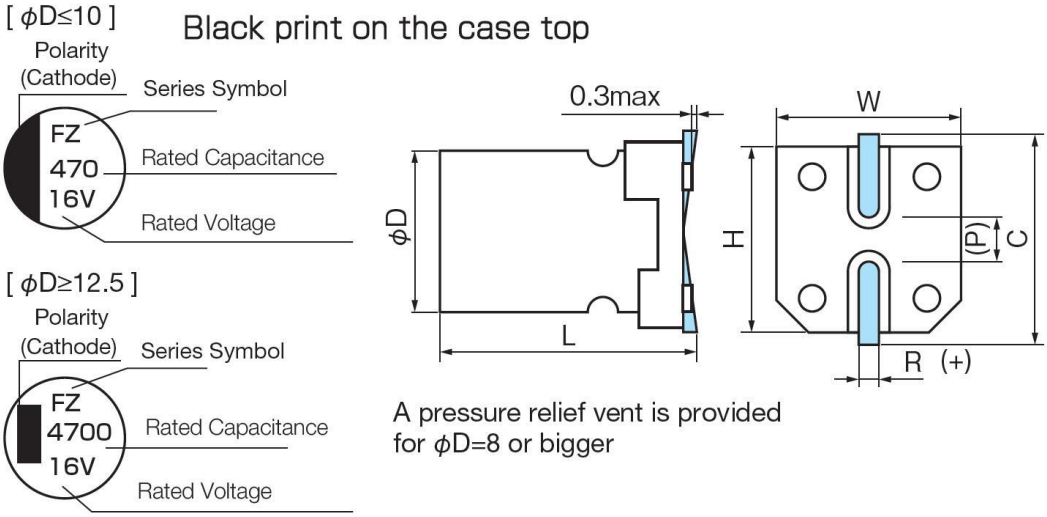
SMD Low Impedance Aluminum Electrolytic Capacitor

FEATURES

- Low Impedance
- 105℃ 3,000 to 5,000Hours
- Solvent proof (within 2 minutes)



DIMENSIONS (mm)



ΦD$^{\pm0.5}$	L	W$^{\pm0.2}$	H$^{\pm0.2}$	C$^{\pm0.2}$	R	P$^{\pm0.2}$
4	5.8$^{\pm0.4}$	4.3	4.3	5.1	0.5~0.8	1
5	5.8$^{\pm0.4}$	5.3	5.3	6.1	0.5~0.8	1.3
6.3	5.8$^{\pm0.4}$	6.6	6.6	7.3	0.5~0.8	2.2
6.3	7.7$^{\pm0.4}$	6.6	6.6	7.3	0.5~0.8	2.2
8	6.5$^{\pm0.5}$	8.3	8.3	9.2	0.7~1.2	3.1
8	10.5$^{\pm0.5}$	8.3	8.3	9.2	0.7~1.2	3.1
10	7.7$^{\pm0.5}$	10.3	10.3	11.2	0.7~1.2	4.4
10	10.5$^{\pm0.5}$	10.3	10.3	11.2	0.7~1.2	4.4
10	13.5$^{\pm0.5}$	10.3	10.3	11.2	0.7~1.2	4.4
12.5	13.5$^{\pm0.5}$	13	13	14	1.0~1.4	4.4
12.5	16.0$^{\pm0.5}$	13	13	14	1.0~1.4	4.4
16	16.5$^{\pm0.5}$	17	17	18	1.0~1.4	6.4

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SPECIFICATIONS

Items	Condition			Specifications								
Rated voltage (V)	—			6.3	10	16	25	35	50	63	80	100
Surge voltage (V)	Room temperature			8.0	13	20	32	44	63	79	100	125
Category temperature range (℃)	—			−55 to +105								
Capacitance tolerance (%)	120Hz/20℃			M : ±20								
Dissipation Factor（tan δ）	tanδ（max） 120Hz/20℃	φ4 to φ10		0.24	0.2	0.18	0.16	0.14	0.12	0.12	0.12	0.12
		φ12.5 to φ16		0.28	0.24	0.2	0.18	0.16	0.14	0.14	0.14	0.14
				Exceeding 1,000μF, +0.02 every 1,000μF								
Leakage current（LC）	μA/after 2 minutes (max)			The greater value of either 0.01CV or 3μA								
Impedance ratio at low temperature	Based on the value at 120Hz, +20℃	−25℃	$Z/Z_{20℃}$	3	3	3	3	3	3	2	2	2
		−40℃	$Z/Z_{20℃}$	4	4	4	3	3	3	3	3	3
Endurance	105℃ rated voltage applied (With the rated ripple current)	Test		φ4 to φ6.3, φ10×7.7 and φ8×6.5: 3,000hours; φ8toφ16: 5,000hours								
		△C/C		Within ±20% of the initial value								
		tanδ		Less than 200% of the specified value								
		LC		Less than the specified value								

RATED RIPPLE CURRENT FREQUENCY COEFFICIENT

Frequency:F(Hz)		100≤F<1k	1k≤F<10k	10k≤F<100k	100k≤F
Capacitance:C(μF)	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

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STANDARD RATINGS

μF \ V	6.3			10			16			25			35		
	Size	ESR	RC	Size	ESR	RC	Size	ESR	RC	Size	ESR	RC	Size	ESR	RC
4.7													4×5.8	1.45	90
10										4×5.8	1.45	90	5×5.8	0.76	170
15							4×5.8	1.45	90	5×5.8	0.76	170	5×5.8	0.76	170
22				4×5.8	1.45	90	5×5.8	0.76	170	5×5.8	0.76	170	5×5.8	0.76	170
27	4×5.8	1.45	90	5×5.8	0.76	170	5×5.8	0.76	170	6.3×5.8	0.44	250	6.3×5.8	0.44	250
33	5×5.8	0.76	170	5×5.8	0.76	170	6.3×5.8	0.44	250	6.3×5.8	0.44	250	6.3×5.8	0.44	250
47	5×5.8	0.76	170	6.3×5.8	0.44	250	6.3×5.8	0.44	250	6.3×5.8	0.44	250	6.3×5.8	0.44	250
56	5×5.8	0.76	170	6.3×5.8	0.44	250	6.3×5.8	0.44	250	6.3×5.8	0.44	250	6.3×7.7	0.34	300
68	6.3×5.8	0.44	250	6.3×5.8	0.44	250	6.3×5.8	0.44	250	6.3×5.8	0.44	250	6.3×7.7	0.34	300
100	5×5.8	0.76	170							6.3×7.7	0.34	300	6.3×7.7	0.34	300
	6.3×5.8	0.44	250	6.3×5.8	0.44	250	6.3×5.8	0.44	250	8×6.5	0.34	300	8×10.5	0.17	600
150	6.3×5.8	0.44	250	6.3×5.8	0.44	250	6.3×7.7	0.34	300	8×10.5	0.17	600	8×10.5	0.17	600
							8×6.5	0.34	300				10×7.7	0.17	600
220	6.3×5.8	0.44	250	6.3×7.7	0.34	300	6.3×7.7	0.34	300	8×10.5	0.17	600	8×10.5	0.17	600
				8×6.5	0.34	300				10×7.7	0.17	600			
330	6.3×7.7	0.3	300	8×10.5	0.17	600	8×10.5	0.17	600	8×10.5	0.17	600	10×10.5	0.09	850
	8×6.5	0.34	300				10×7.7	0.17	600						
470	8×10.5	0.17	600	8×10.5	0.17	600	8×10.5	0.17	600	10×10.5	0.09	850			
				10×7.7	0.17	600									
680	8×10.5	0.17	600	10×10.5	0.09	850	10×10.5	0.09	850						
	10×7.7	0.17	600												
1000	8×10.5	0.17	600	10×10.5	0.09	850									
1500	10×10.5	0.09	850												

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μF \ V	50			63			80			100		
	Size	ESR	RC	Size	ESR	RC	Size	ESR	RC	Size	ESR	RC
4.7	4×5.8	2.9	60	5×5.8	1.9	70				6.3×5.8	3	80
10	6.3×5.8	0.88	165	6.3×5.8	1.5	80				6.3×7.7	2.4	120
22	6.3×5.8	0.88	165	6.3×7.7	1.2	120				8×10.5	1.3	130
27	6.3×7.7	0.68	195				10×10.5	0.7	200			
33	6.3×7.7	0.68	195	8×6.5	1.2	120				10×10.5	0.65	200
47	6.3×7.7	0.68	195	10×7.7	0.7	200	10×10.5	0.65	200			
56	8×10.5	0.34	350	10×10.5	0.5	300						
68	8×10.5	0.34	350									
100	8×10.5	0.34	350									
	10×7.7	0.34	330									
150	10×10.5	0.18	670									
220	10×10.5	0.18	670									

↑ Case size:φDxL(mm)

↑ Impedance(Ω) max at 100kHz, 20℃

↑ Rated ripple current mArms(100kHz, 105℃)

Note: Other Values are available on request. WEET is capable of doing custom service for you.

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PN Structure

WFZ	0J	0R1	M	040054	T	R
Series	Rated Voltage 1.	Capacitance 2.	Capacitance Tolerance 3.	Dimension 4.	Packing 5.	Pb 6.

1. Rated Voltage

Code	0J	1A	1C	1D	1E	1V	1G	1H	1J	1K	2A
Voltage	6.3V	10V	16V	20V	25V	35V	40V	50V	63V	80V	100V

2. Capacitance

Code	0R1	R22	R33	R47	010	2R2	3R3	4R7	100	220	330	470	101
Capacitance (μF)	0.1	0.22	0.33	0.47	1	2.2	3.3	4.7	10	22	33	47	100

3. Capacitance Tolerance

Code	K	L	M
Tolerance	±10%	±15%	±20%

4. Dimension

Code	040054	050054	063054	080105	100105
Dimension (mm)	4x5.4	5×5.4	6.3×5.4	8x10.5	10x10.5

5. Packing

Code	T
Packing	Tape & Reel

6. Pb

Code	L	R
Pb	Leaded	RoHS

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