

Miniature Aluminum Electrolytic Capacitors

FZ
Series

Extra long life (105°C 10000Hrs.)
Low impedance, High performance (solvent proof)

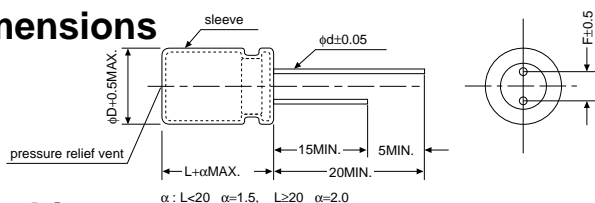
FZ series has stable characteristics at the temperature of wide range (-55 to +105°C).
Also FZ series has low impedance at high frequency, long life and solvent proof (within 5 minutes).



Specifications

Items	Specifications				
Rated voltage (V)	10	16	25	35	50
Operating temperature range (°C)	-55 to +105				
Capacitance tolerance (%)	±20 (120Hz)				
Tangent of loss angle (tan δ) (MAX.)	0.20	0.16	0.14	0.12	0.10
	0.02 to be added to the above value every time nominal capacitance exceeds 1000μF. (120Hz)				
Leakage current (L.C.)(μA/after 2min.)(MAX.)	The greater value of either 0.01CV or 3				
Impedance (120Hz) ratio at low temperature (MAX.)	Z _{-40°C} /Z _{20°C}	2	2	2	2
	Z _{-55°C} /Z _{20°C}	4	4	3	3
High-temperature load rated voltage applied	Test	105°C 10000hrs. (φD≤10, 5000hrs.)			
	ΔC/C	Within ±25% of the initial value			
	tan δ	≤ Twice the initial standard			
	L.C.	≤ The initial standard			
Other characteristics	Conform to IEC 384-4				

Dimensions



(unit : mm)

φD	8	10	12.5	16	18
F	3.5	5.0	5.0	7.5	7.5
φd	0.6	0.6	0.6	0.8	0.8

Size List

(φD×Lmm)

μF \ V	10	16	25	35	50
10					8×11.5
22					8×11.5
33				8×11.5	10×12.5
47			8×11.5	8×12.5	10×16
100		8×11.5	10×12.5	10×16	12.5×20
220	8×12.5	10×12.5	10×20	12.5×20	16×25
330	10×12.5	10×20	10×20	12.5×25	16×25
470	10×16	10×20	12.5×25	16×25	16×30
1000	12.5×20	12.5×25	16×25	16×30	
2200	16×25	16×30	18×35.5		
3300	16×30	18×35.5			
4700	18×35.5				

Impedance, Maximum Permissible Ripple Current

μF \ V	10	16	25	35	50
10					0.77 180
22					0.51 230
33				0.47 240	0.30 390
47			0.43 250	0.43 260	0.24 540
100		0.43 250	0.28 400	0.26 470	0.13 880
220	0.32 380	0.26 420	0.17 560	0.14 720	0.060 1250
330	0.26 500	0.19 550	0.15 630	0.094 950	0.051 1400
470	0.15 600	0.13 700	0.068 900	0.060 1300	0.043 1500
1000	0.085 1000	0.051 1100	0.051 1350	0.043 1500	
2200	0.051 1450	0.043 1600	0.034 1800		
3300	0.038 1700	0.034 1900			
4700	0.034 2050				

Left figure ; Impedance (ΩMAX. at 100kHz, 20°C), Right figure ; MAX. ripple current (mA r.m.s. at 10k to 100kHz, 105°C)

Model No. 16MV100FZ

└─ 100μF, nominal capacitance
└─ 16V, rated voltage