

# MZ Series

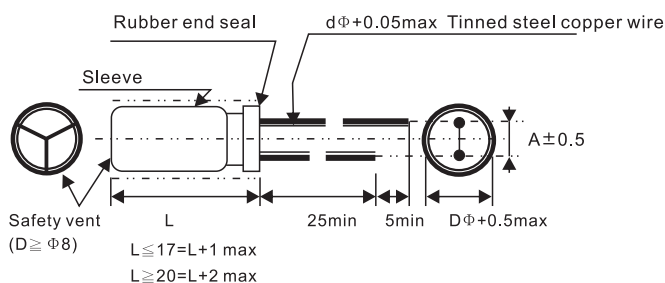
- 105°C, 8000~10000 hours, for switching power supplies, UPS, Ballast (紋波疊加)
- 採用了新型高穩定、高導電率電解液、高信賴技術



## • SPECIFICATIONS

Items	Characteristics					
Category						
Temperature Range	-40 to +105°C					
Rated Voltage Range	200V to 450Vdc					
Capacitance Tolerance	± 20% (M) (at 20°C, 120Hz)					
Leakage Current	I=0.01CV + 10 μA, whichever is greater. Where, I :Max. Leakage current (μA). C : Nominal capacitance (μF) .V :Rated voltage(V) (at 20°C, after 2 minutes)					
Dissipation Factor (tan δ)	Rated voltage (Vdc)	200V	250V	350V	400V	450V
	tan δ (Max.)	0.20	0.20	0.24	0.24	0.24
Low Temperature Characteristics	Impedance ration max at 120Hz					
	Working voltage	200v	250v	350v	400v	450v
	Z-25°C/ Z+20°C	3	3	5	5	6
Load. Life	The following specifications shall be satisfied when the capacitors are restored to 20°C after the voltage is applied for the specified at 105°C					
	Capacitance change	≤ ±25% of the initial value			φ D	load life
	DF (tan δ)	≤ 200 % of the initial specified value			10 φ	8000
	Leakage current	≤ The initial specified value			13 φ~	10000
Shelf Life	The following specifications shall be satisfied when the capacitors are restored to 20°C after exposing them for 1000 hours at 105°C without voltage applied.					
	Capacitance change	≤ ±20% of the initial value				
	DF (tan δ)	≤ 200 % of the initial specified value				
	Leakage current	≤ The initial specified value				
Ripple Current Multiplier	Temperature coefficient					
	Temperature(°C)	~55	60	70	85	105
	Factor	2.23	2.17	2.0	1.75	1
	Frequency coefficient					
	cap \ freq	120	1k	10k	100k	
	~100	0.4	0.65	0.85	1.00	
100up	0.4	0.68	0.90	1.00		

## • Diagram: (Unit: mm)



Body Dia φD	10	13		16	18
		L ≤ 21	L ≥ 25		
Lead Dia φd	0.6	0.6	0.8	0.8	0.8
Lead Space A		5		7.5	7.5/10



● STANDARD RATING

Vdc Item CAP(μF)	200v			250v			350v			400v		
	D*L	120Hz	100KHz	D*L	120Hz	100KHz	D*L	120Hz	100KHz	D*L	120Hz	100KHz
10				10*20	140	350				10*20	140	350
15										13*21	220	550
22	10*20	200	500	13*21	200	500				13*25	260	650
							13*21	260	650	16*20	270	680
33	13*21	260	650	13*25	320	800				16*25	360	900
							16*20	360	900	18*20	450	1125
47	13*21	386	970	13*25	390	975				16*32	470	1175
				16*20	405	1015	16*25	430	1075	18*25	455	1135
68	13*25	470	1175	16*25	520	1300	18*20	420	1045	16*36	575	1445
	16*20	490	1225	18*20	505	1265	16*32	560	1400	18*32	585	1465
100	16*25	630	1420	16*32	680	1530	18*25	550	1375	18*36	765	1720
	18*20	615	1385	18*25	655	1480	18*30	700	1570			
150	16*32	840	1890	18*30	860	1940						
220	18*30	1050	2365	18*40	1130	2545						
330	18*40	1430	3220									

Vdc Item CAP(μF)	450v		
	D*L	120Hz	100KHz
4.7	10*12	80	200
	10*20	90	240
10	13*21	180	450
15	13*25	240	600
22	16*25	290	725
	18*20	280	705
33	16*32	390	975
	18*25	380	950
47	18*30	480	1200
68	18*36	630	1575

Ripple Current :mA/rms at 105°C, 100KHz

Chip Type SMD  
Miniature Type  
General Purpose  
High Frequency Low Impedance  
High Voltage High Reliability  
Non-polar Type  
Large Size Snap-in  
Large Size Screw  
X Metallized Polypropylene Film Capacitors