

MZ Series

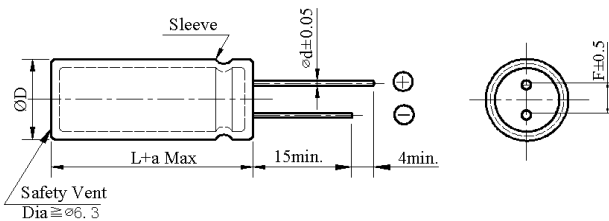
- Low ESR
- Load life 2,000 hours at 105°C
- Ideal for low profile power supply applications



◆ SPECIFICATIONS

Item	Performance Characteristics			
Category Temperature Range	-40 ~ +105°C	-25 ~ +105°C		
Working Voltage Range	200 ~ 400Vdc	420 ~ 450Vdc		
Capacitance Range	27 ~ 270 µF	18 ~ 270 µF		
Capacitance Tolerance	±20% (at 25°C and 120Hz)			
Dissipation Factor (tanδ) (at 25°C, 120Hz)	Rated Voltage (V)	200 ~ 450		
	tanδ(Max)	0.15		
Leakage Current	I=0.03CV + 10µA I : Leakage current (µA) C : Rated capacitance (µF) V : Rated voltage (V) Impress the rated voltage for 2 minutes			
Low Temperature Characteristics Impedance Ratio(MAX)	Rated voltage (V)	200	400	420 ~ 450
	Z(-40°C)/Z(+20°C)	6	6	—
	Z(-25°C)/Z(+20°C)	3	5	6
Endurance	The following specifications shall be satisfied when the capacitors are restored to 25°C after subjected to DC voltage with the rated ripple current is applied for 2,000 hours at 105°C.			
	Capacitance change	≡ ±20% of the initial value		
	Dissipation factor(tanδ)	≡ 200% of the specified value		
	Leakage current	≡ specified value		
Shelf Life	The following requirements shall be satisfied when the capacitor are restored to 25°C after the rated voltage applied for 1,000 hours at 105°C without voltage applied.			
	Capacitance change	≡ ±20% of the initial value		
	Dissipation factor(tanδ)	≡ 200% of the specified value		
	Leakage current	≡ 200% of the specified value		
Others	Conforms to JIS-C-5101-4 (1998), characteristic W			

◆ DIMENSIONS (mm)



ΦD	8	10	12.5	14.5
ΦD	ΦD + 0.5 Max			
Φd	0.6	0.6	0.6	0.8
F	3.5	5.0	5.0	7.5
a	L+ 1.5 Max	L+ 1.5 Max	≧ 35 L+1.5Max ≧ 40 L+2.0 Max	L+ 2.0 Max

◆ PART NUMBER SYSTEM(Example : 400V 100 µF)

M Z 2 G 1 0 1 M N N 1 4 4 5

Special Request

Size code(1445 : 14.5×45)

Lead length code

Lead forming Type code

Capacitance tolerance code(M: ±20%)

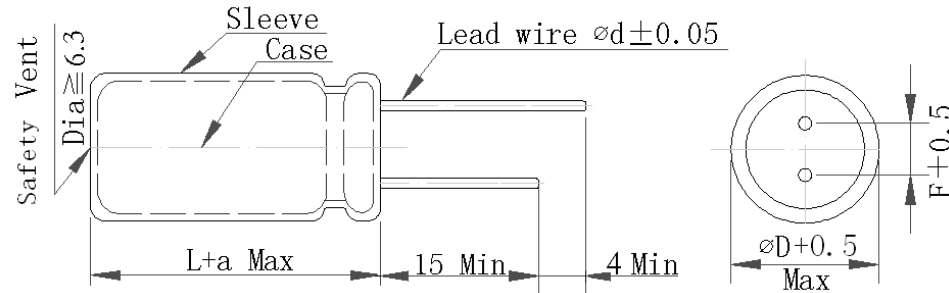
Capacitance code (100µF)

Voltage code (400V)

Series code (MZ)

Aluminum Electrolytic Capacitor

Customer	Digi-Key	SERIES	MZ	NO.:	PUBLISH DATE	2022-03-25
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No.	CHINSAN Part No.	Customer Part No.	Capacitance (uF)	Tolerance On rated Capacitance (%)	Working Voltage (Vdc)	Surge Voltage (Vdc)	Category Temp Range (°C)	Tan δ @ 25°C (120Hz) (Max)	Leakage Current (uA) (2 min.)	Rated Ripple Current (mA rms) @ 105°C 120Hz	Rated Ripple Current (mA rms) @ 105°C 100kHz	ESR @25°C (m Ω max/ 120Hz)	Impedance @20°C (m Ω max/ 100kHz)	Endurance @ 105°C (Hours)	Dimensions (mm)					Appearance Drawing No
															D Φ	L	a	d	F	
1	MZ2W490MNN1050A4E	/	49 μ F	$\pm 20\%$	450 V	/	-25~+105	/	/	350	/	/	800	2000	10	50	/	/	5	---

※Test leakage current before testing dissipation factor and capacitance during the electric characteristic test.

REMARKS:	APPROVED BY	CHECKED BY	PREPARED BY
Sleeve Color: Black.	张洪斌	曾爱娥	梁慧妍