

MJ Series

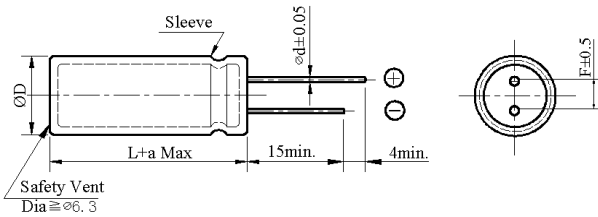
- For electronic ballast circuits and long life
- Low ESR
- High ripple current
- Load life: 8,000 to 10,000 hours at 105°C



SPECIFICATIONS

Item	Performance Characteristics			
Category Temperature Range	-25 ~ +105 °C			
Working Voltage Range	160 ~ 450Vdc			
Capacitance Range	10 ~ 560 µF			
Capacitance Tolerance	±20% (at 25°C and 120Hz)			
Dissipation Factor (tanδ) (at 25°C, 120Hz)	Rated Voltage (V)	160 ~ 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)	160~250	400	420 ~ 450
	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 10,000 (8,000 hours for Φ 10) hours at 105 °C.			
	Capacitance change	≒ ±20% of the initial value		
	Dissipation factor(tanδ)	≒ 200% of the 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		
Others	Leakage current			
	≒ 200% of the specified value			
Conforms to JIS-C-5101-4 (1998), characteristic W				

DIMENSIONS (mm)



ΦD	10	12.5	16	18
ΦD	ΦD + 0.5 Max			
Φd	0.6	0.6	0.8	0.8
F	5.0	5.0	7.5	7.5
a	L + 1.5 Max	≤ 35 L+1.5Max ≥ 40 L+2.0 Max	L + 1.5 Max	

PART NUMBER SYSTEM(Example : 250V 220µF)

M	J	2	E	2	2	I	M	N	N	1	8	N	3				
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Special Request

Size code(18N3 : 18×31.5)

Lead length code

Lead forming Type code

Capacitance tolerance code(M: ±20%)

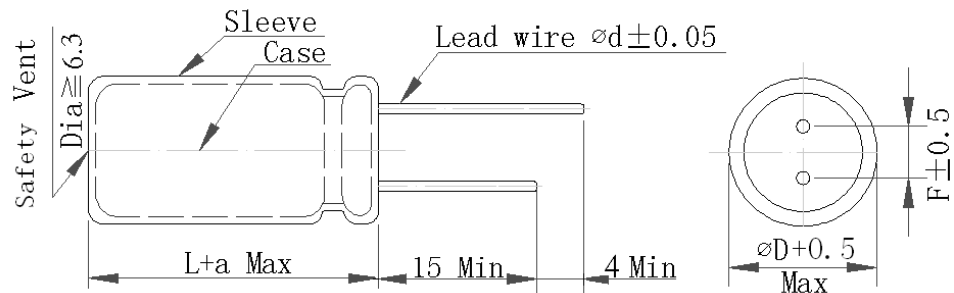
Capacitance code (220µF)

Voltage code(250V)

Series code(MJ)

Aluminum Electrolytic Capacitor

Customer	Digi-Key	SERIES	MJ	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	MJ2G270MNN1220	/	27 μ F	$\pm 20\%$	400 V	/	-25~+105	/	/	360	/	/	/	10000	12.5	20	/	/	5	---
2	MJ2G470MNN1620A6	/	47 μ F	$\pm 20\%$	400 V	/	-25~+105	/	/	550	/	/	1250	10000	16	20	/	/	7.5	---
3	MJ2W121MNN1835A4EJ	/	120 μ F	$\pm 20\%$	450 V	/	-25~+105	/	/	820	/	/	400	10000	18	35	/	/	7.5	---

※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