



## MJ Series

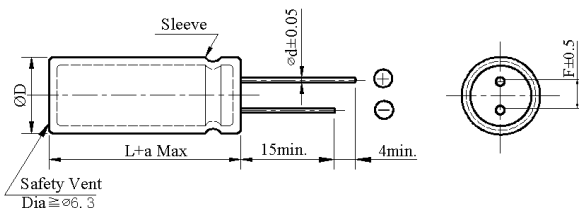
- For electronic ballast circuits and long life
- Low ESR
- High ripple current
- Load life: 8,000 to 10,000 hours at 105°C



### ◆ SPECIFICATIONS

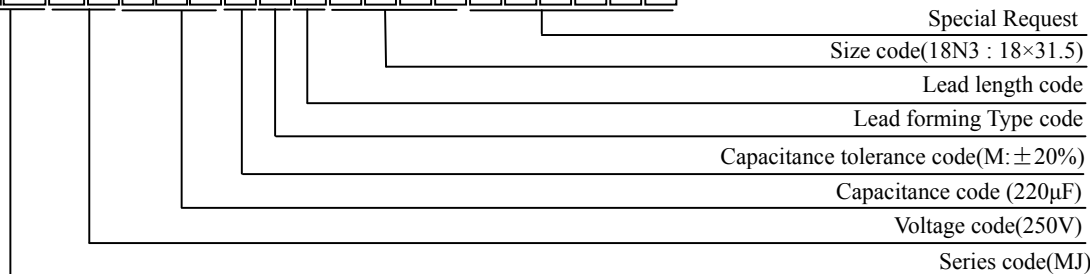
Item	Performance Characteristics				
Category Temperature Range	-25~ +105°C				
Working Voltage Range	200 ~ 450Vdc				
Capacitance Range	6.8 ~ 330 µF				
Capacitance Tolerance	±20% (at 25°C and 120Hz)				
Dissipation Factor (tanδ) (at 25°C, 120Hz)	Rated Voltage (V)	200 ~ 450			
	tanδ(Max)	0.15			
Leakage 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)	200~250	350	400	420 ~ 450
	Z(-25°C)/Z(+20°C)	3	5	5	6
(at 120Hz)					
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			
	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	10	12.5 L < 35	12.5 L ≥ 35	16	18
ΦD	ΦD + 0.5 Max				
Φd	0.6	0.6	0.8	0.8	0.8
F	5.0	5.0		7.5	7.5
a	L + 1.5 Max	≤ 35 L + 1.5 Max ≥ 40 L + 2.0 Max		L + 1.5 Max	

### ◆ PART NUMBER SYSTEM( Example : 250V 220µF )





# MJ Series

◆ Case size & Permissible rated ripple current: (mA rms) at 105°C / 120Hz

uF \ Vdc	200		250		350	
	ΦD × L	RC	ΦD × L	RC	ΦD × L	RC
6.8					10×12.5	110
10	10×12.5	120	10×16	135	10×16	140
22	10×16	220	10×20	245	12.5×20	260
33	10×20	270	12.5×20	320	16×20	360
47	12.5×20	390	12.5×20	408	16×25	430
68	12.5×25	535	16×20	550	16×31.5	560
					18×20	550
82	16×20	595	16×20	610	18×25	610
100	16×20	630	16×25	680	18×31.5	700
120	16×25	750	16×31.5	790	18×31.5	830
150	16×25	840	18×25	860	18×40	960
220	18×25	1050	18×31.5	1130		
330	18×35.5	1430				

uF \ Vdc	400		420		450	
	ΦD × L	RC	ΦD × L	RC	ΦD × L	RC
6.8	10×16	110	10×16	110	10×20	120
10	10×20	140	10×20	150	12.5×20	180
15	12.5×20	220	12.5×20	225	12.5×25	240
22	12.5×25	275	12.5×25	280	16×20	300
33	16×20	360	16×20	375	16×25	390
					18×20	380
47	16×25	470	18×20	465	18×25	480
	18×20	450				
68	18×25	585	18×31.5	595	18×31.5	630
82	18×31.5	660	18×31.5	670	18×35.5	715
100	18×31.5	765	18×35.5	775	18×40	800
120	18×35.5	865	18×40	875		
150	18×45	985	18×50	990		

◆ RIPPLE CURRENT MULTIPLIERS

Frequency Multipliers

Cap(uF)	Frequency (Hz)			
	120	1K	10K	100K
6.8 ~ 82	1.00	1.75	2.25	2.50
100 ~ 330	1.00	1.67	1.75	2.25