

LARGE CAN TYPE

MP

Series

Screw Terminal, Wide Temperature Range

JAMICON

- High temperature 85°C, high ripple current and high reliability.
- Long life for 5000 hours.
- Corresponding product to RoHS



● SPECIFICATION

Item	Characteristic			
Operation Temperature Range	-40 ~ +85°C			
Rated Working Voltage	350 ~ 450VDC			
Capacitance Tolerance (120Hz 20°C)	$\pm 20\%(\text{M})$			
Leakage Current (20°C)	I $\leq 0.02CV$ or 5 (mA) I : Leakage Current(μA)	C : Rated Capacitance(μF)	V : Working Voltage(V)	*Whichever is smaller after 5 minutes
Surge Voltage (20°C)	W.V. S.V.	350 400	400 450	450 500
Dissipation Factor (tan δ) (120Hz 20°C)	W.V. tan δ	350 0.15	400 0.15	450 0.15
Impedance ratio at 120Hz				
Low Temperature Stability	Rated Voltage (V)	350~450		
	-25°C / +20°C	8		
After 5000 hours application of W.V. and +85°C ripple current value, the capacitor shall meet the following limits. (DC + ripple peak voltage \leq rate working voltage)				
Load Life	Capacitance Change	$\leq \pm 20\%$ of initial value		
	Dissipation Factor	$\leq 200\%$ of initial specified value		
	Leakage current	\leq initial specified value		
Shelf Life	At +85°C no voltage application after 1000 hours, the capacitor shall meet the limits for load life characteristics. (with voltage treatment)			

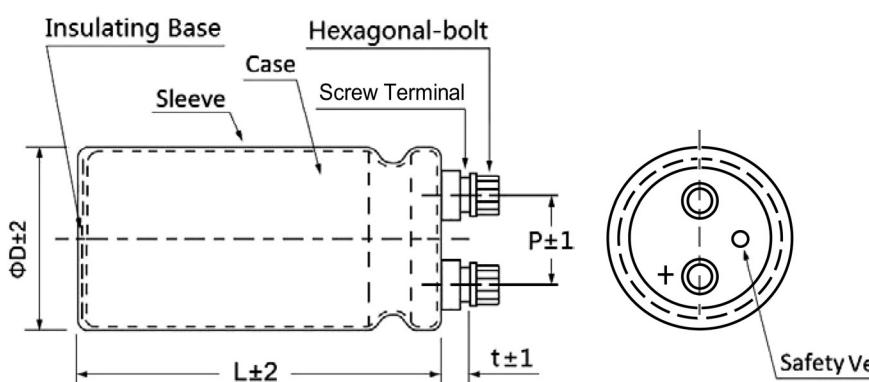
● TERMINAL TYPE

ϕD	P	t	Hexagonal-bolt
51	22.2	6.3	M5 × 0.8 × 10
64	28.5	6.3	M5 × 0.8 × 10
77	31.8	5.8	M5 × 0.8 × 10
90	31.6	5.8	M6 × 1.0 × 10

● RIPPLE CURRENT COEFFICIENTS

Frequency(Hz)	60	120	300	1k	$\geq 10\text{k}$
Multiplier	0.70	1.00	1.10	1.30	1.40

Temperature(°C)	40	60	85
Multiplier	1.89	1.67	1.00



※ Clamp enclosed and Hexagonal-bolt with box, not locked to cap body

● CASE SIZE & MAX RIPPLE CURRENT

Case size : D x L
Max ripple current : A(rms) 85°C 120Hz (mm)

μF	V(DC) ϕD	350				400				450			
		51	64	77	90	51	64	77	90	51	64	77	90
1000					75				75				
					4.76				4.99				
1200	75				75				96				
	5.21				5.21				6.09				
1500	75				96				115				
	5.82				6.48				7.38				
1800	96				96				130				
	7.10				7.10				8.54				
2200	96				130					96			
	7.85				8.99					8.93			
2700	130					96				115			
	9.97					9.64				10.69			
3300	130					115				130			
	11.02					11.53				12.48			
3900	115					130				155	115		
	12.53					13.23				14.68	13.56		
4700	130					155	115			195	130		
	14.53					15.72	14.10			17.91	15.69		
5600	155	115				195	130				155		
	17.16	15.39				19.06	16.23				18.51		
6800	195	130					155					157	
	21.00	17.88					19.33					21.21	
8200		155						157				157	
		21.22						22.64				23.29	
10000			157					157				196	
			25.00					25.00				28.37	
12000				157				196				236	
				27.39				30.22				33.80	
15000					196			236					
					33.78			36.74					
18000					236							L(mm)	
					40.25							R.C.	