

SPECIFICATION FOR APPROVAL

(Model) : DMJ-MC

(Spec.) : 200 μ F \pm 5% 3200V.DC

(Size) : ϕ 136 \times 300mm

Version	Description	Date
A/0		2023-04-19

MADE	CHECKED	APPROVED	APPROVED

Fastron
Electronics

- Power Semiconductors
- Electrical Measurement
- Process Control

9B Lakewood Blvd
Braeside VIC 3195 Australia

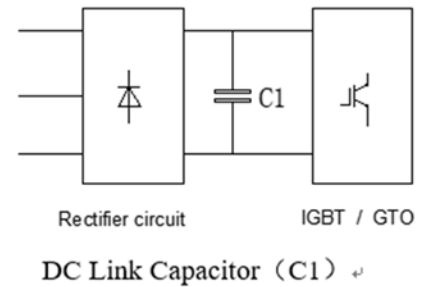
Web: www.fastron.com.au
Email: sales@fastron.com.au
Telephone: + 61- 3 - 97635155
Facsimile: + 61- 3 - 97635206

Application

- Widely used in DC-Link circuit for filtering energy storage.
- Can replace electrolytic capacitors, better performance and longer life.
- Wind power, photovoltaic power inverter; electric vehicles and hybrid vehicles; welding equipment, power supplies and induction heating equipment, for the DC link filter.

Construction

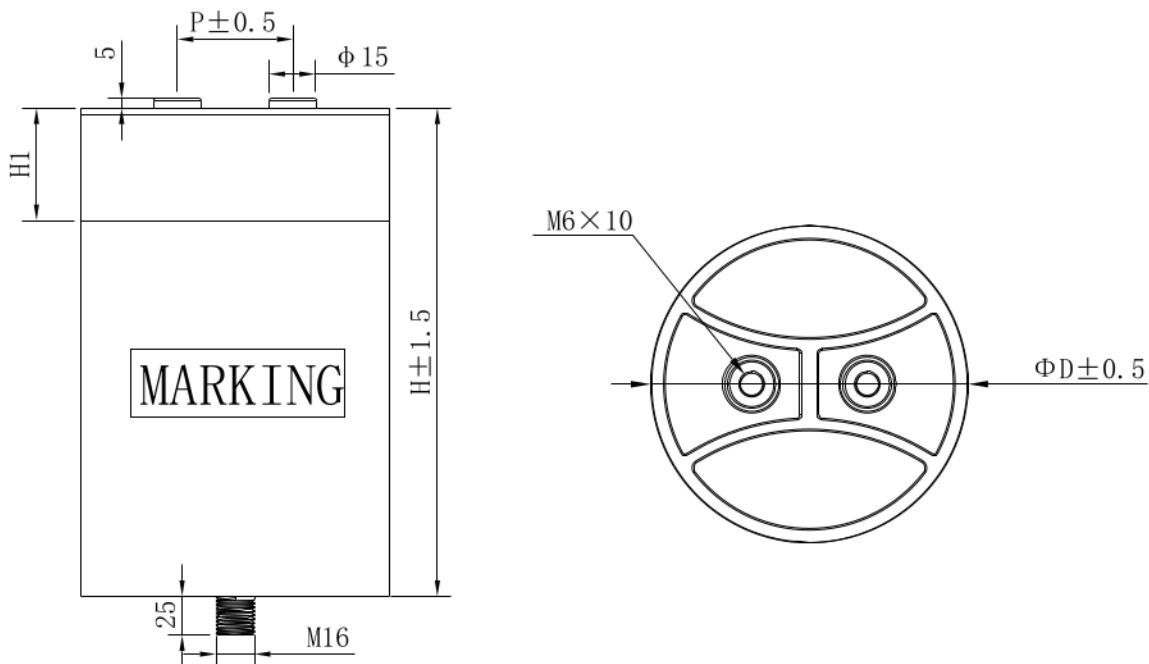
- Dielectric: Polypropylene film
- Soft polyurethane, dry type, Non-PCB
- Concentric winding
- Extruded round aluminum can with stud



Standards: IEC61071;

Outline drawing

Unit:mm (undeclared tolerance: ±1mm)



Specification & size

C _N (μF)	U _N (V.DC)	φ D(mm)	H(mm)	H1(mm)	P (mm)
200	3200	136	300	30	50

Technical data

Rated capacitance	C_N	$200 \mu F \pm 5\%$
Rated voltage	U_N	3200V.DC
Non-recurrent surge voltage	U_s	4800V
Rated energy	W_N	1024Ws
Maximum current	I_{max}	80A
Maximum peak current	\hat{I}	8kA
Maximum surge current	I_s	24kA
Series resistance	R_s	$\leq 1.6m \Omega$ (1kHz)
Tangent of the loss	$\tan \delta$	≤ 0.002 (100Hz)
Tangent of the loss angle	$\tan \delta_0$	0.0002
Self discharge time const.	$C \times R_{is}$	$\geq 10000S$ (100VDC 60S)
Self inductance	L_e	$\leq 80nH$
Lowest operating temperature	\ominus_{min}	-40°C
Maximum operating temperature	\ominus_{max}	85°C
Thermal resistance	R_{th}	1.5K/W
Storage temperature	$\ominus_{storage}$	-40°C ~85°C
Service life	at $\ominus_{hotspot}$	100000 h($\leq 70^\circ C$)
Failure quota		100Fit
Test data		
Voltage test between terminals	V_{tt}	$1.5U_N/10S$
A.C. voltage test terminal/container	V_{t-c}	3000V.AC/60S
Operating altitude		3500m(max)
Weight		$\approx 5.1kg$
Maximal torque	M6 Internal thread	5Nm(max)
	M16 bottom stud	10Nm(max)