SPECIFICATION FOR APPROVAL

（**Model**）： AKMJ-MC

（**Spec.**）： 6.8uF±5% 1200V.AC

（**Size**） ： φ50×85

Version	Description	Date
A/0		2023-06-13

MADE	CHECKED	APPROVED	APPROVED

Fastron Electronics
9B Lakewood Blvd
Braeside VIC 3195 Australia

• Power Semiconductors
• Electrical Measurement
• Process Control

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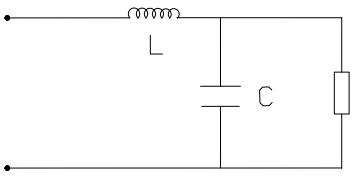
Application

■AC/DC capacitor for general use in power electronics,



AC Filter （C）

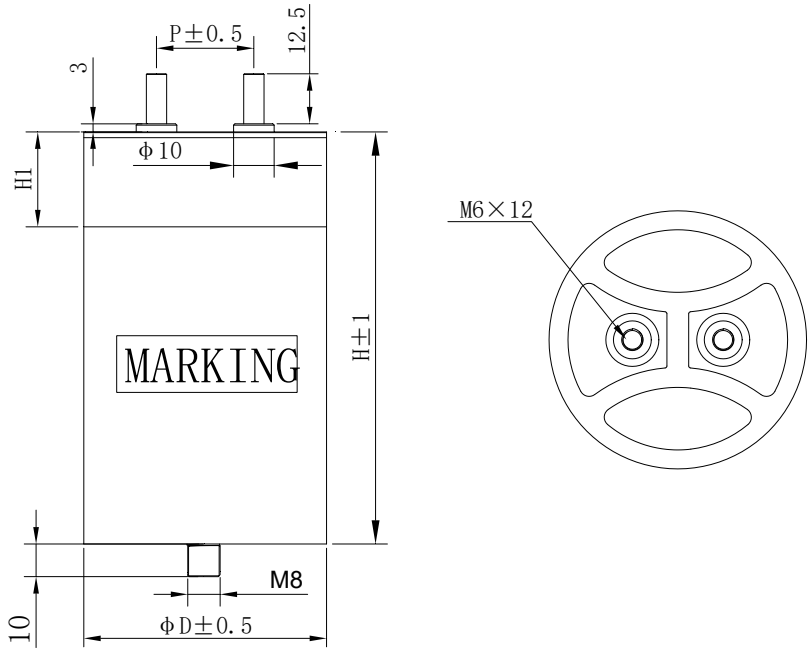
Construction

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

Standards: IEC61071;IEC60831

Outline drawing

Unit:mm



Specification & size

C_N (μ F)	U_N(V.AC)	U_{rms}(V.AC)	Φ D(mm)	H(mm)	H1(mm)	P （mm）
6.8	1200	850	50	85	15	22

Technical data

Rated capacitance	C_N	6.8μF±5%
Rated voltage	U_{NAC}	1200V.AC
	U_{NDC}	2000V.DC
Effective voltage	U_{rms}	850V.AC
Maximum current	I_{max}	33A
Maximum peak current	$\hat{I}$	0.5kA
Maximum surge current	I_S	1.5kA
Series resistance	R_S	≤3.7mΩ
Tangent of the loss	tan δ	0.001(100Hz)
Tangent of the loss angle	tan δ 0	0.0002
Self discharge time const.	$C \times R_{is}$	10000S（100VDC 60S）
Self inductance	L_e	≤100nH
Lowest operating temperature	Θ_{min}	-40°C
Maximum operating temperature	Θ_{max}	85°C
Thermal resistance	R_{th}	10.5K/W
Storage temperature	$\Theta_{storage}$	-40~85°C
Service life	at $\Theta_{hotspot}$	100000 h(≤70 °C)
Failure quota		*100Fit*
Test data		
Voltage test between terminals	Vtt	3000V.DC/10S
A.C. voltage test terminal/container	Vt-c	4000V.AC/60S
Operating altitude		3500m(max)
Weight		≈0.4kg

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