

SPECIFICATION FOR APPROVAL**(Model)** : AKMJ-PC**(Spec.)** : 50 μ F \pm 5% 420V.AC**(Size)** : ϕ 65 \times 132

Version	Description	Date
A/0		2022-12-03

MADE	CHECKED	APPROVED	APPROVED

Fastron
Electronics

- Power Semiconductors
- Electrical Measurement
- Process Control

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Application

- Widely used in power electronic equipment for AC filtering;
- Power Factor Correction

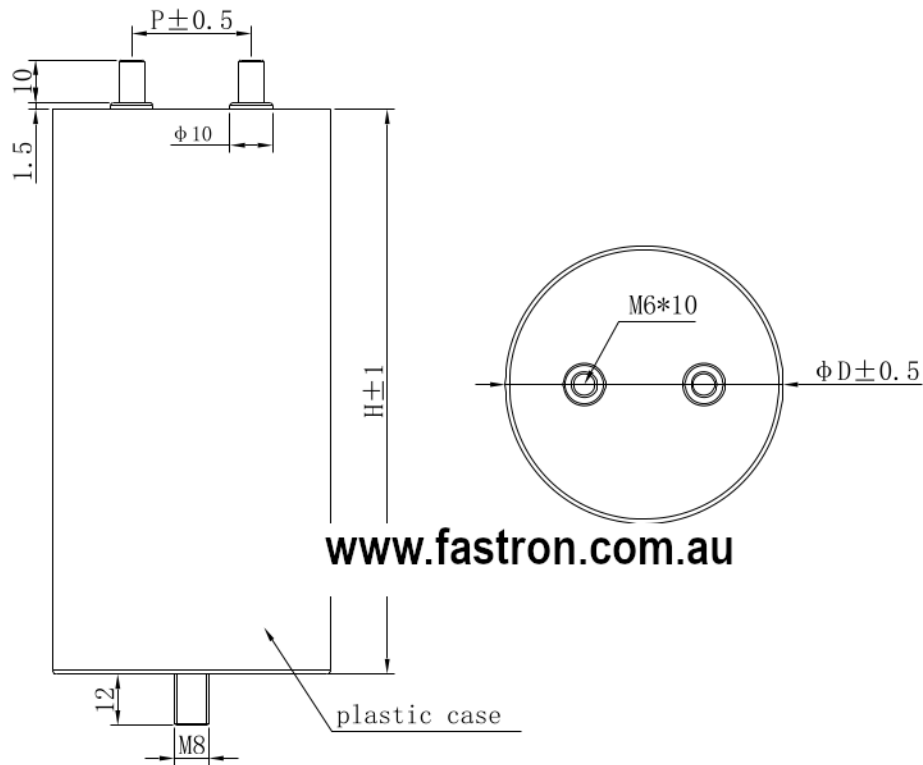
Construction

- Dielectric: Polypropylene film
- Soft polyurethane, dry type, Non-PCB
- Concentric winding

Standards: IEC61071

Outline drawing

Unit:mm



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Specification & size

C_N (μ F)	U_{NAC} (V.AC)	ϕ D(mm)	H(mm)	P(mm)
50	420	65	132	28

Technical data

Rated capacitance	C_N	$50 \mu F \pm 5\%$
Rated voltage	U_{NAC}	420V.AC
Non-recurrent surge voltage	U_s	1280V
Maximum current	I_{max}	30A
Maximum peak current	\hat{I}	1KA
Maximum surge current	I_s	3KA
Series resistance	R_s	$\leq 6.06m \Omega$
Tangent of the loss	$\tan \delta$	0.002 (100Hz)
Tangent of the loss angle	$\tan \delta 0$	0.0002
Self discharge time const.	$C \times R_{is}$	10000S (100VDC 60S)
Self inductance	L_e	$\leq 40nH$
Lowest operating temperature	\ominus_{min}	-40°C
Maximum operating temperature	\oplus_{max}	85°C
Storage temperature	$\ominus_{storage}$	-40°C ~85°C
Service life	at $\oplus_{hotspot}$	100000 h($\leq 70^\circ C$)
failure quota		100Fit
Test data		
Voltage test between terminals	Vtt	640V.AC/10S
Operating altitude		3500m(max)