

Application

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

Construction

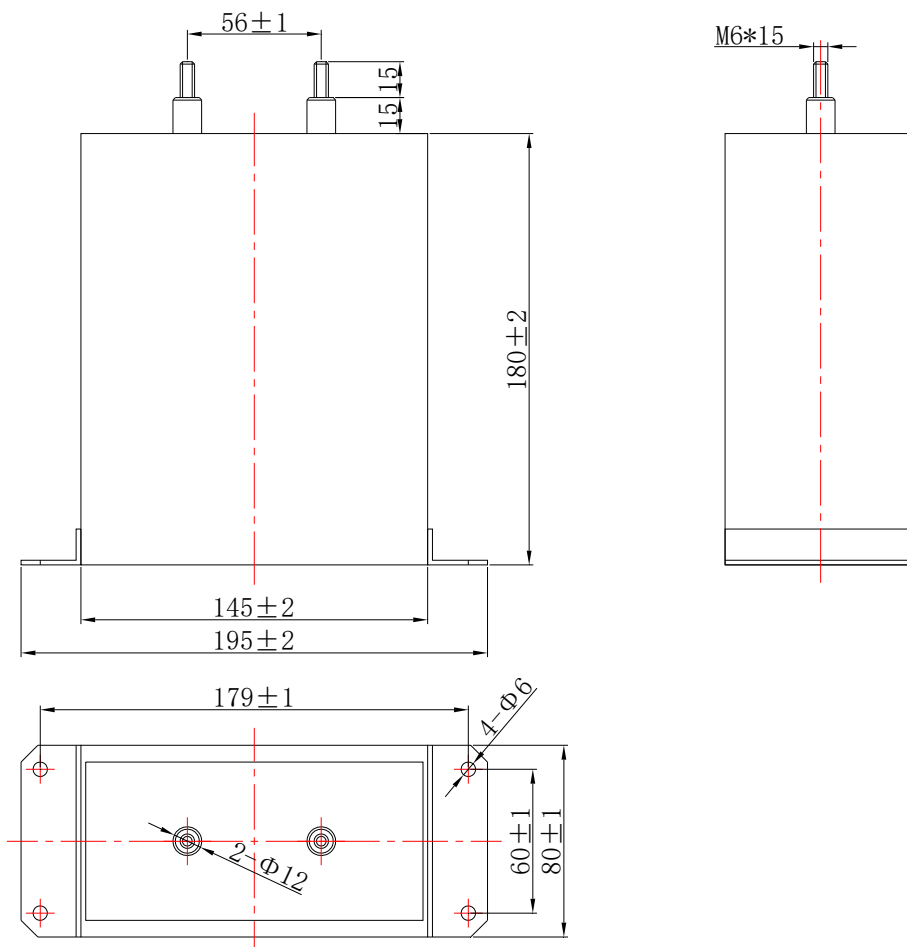
- Dielectric: Polypropylene film
- Epoxy resin, dry type, Non-PCB
- Concentric winding
- Case material: aluminum

Model Number : MIH800 2uF 8/12kv

Standards: IEC61071

Outline drawing

Unit:mm (undeclared tolerance: ± 1 mm)



Technical data

Rated capacitance	C_N	$2 \mu F \pm 10\%$
Rated voltage	U_{NAC}	2600V.AC (50 to 400Hz)
	U_{NDC}	8000V.DC
Non-recurrent surge voltage	U_S	12000V
Rated current	I_{max}	20A (10kHz)
Voltage climb rate	Dv/dt	500V/ μs
Maximum peak current	\hat{I}	1000A
Maximum surge current	I_S	3000A
Series resistance	R_S	$\leq 25m \Omega$ (10kHz)
Tangent of the loss	$\tan \delta$	0.0007(1kHz)
Tangent of the loss angle	$\tan \delta 0$	0.0002
Self discharge time const.	$C \times R_{is}$	$> 20000S$ (500VDC,60s)
Self inductance	L_e	$\leq 60nH$
Lowest operating temperature	\ominus_{min}	-25°C
Maximum operating temperature	\oplus_{max}	70°C
Storage temperature	$\oplus_{storage}$	-40°C ~ 85°C
Service life	at $\oplus_{hotspot}$	100000 h ($\leq 70^\circ C$)
Failure quota		100Fit
Test data		
Voltage test between terminals	V_{tt}	12000V.DC/10S
A.C. voltage test terminal/container	V_{t-c}	12000V.AC/10S
Operating altitude		2000m(max)
Weight		$\approx 9kg$