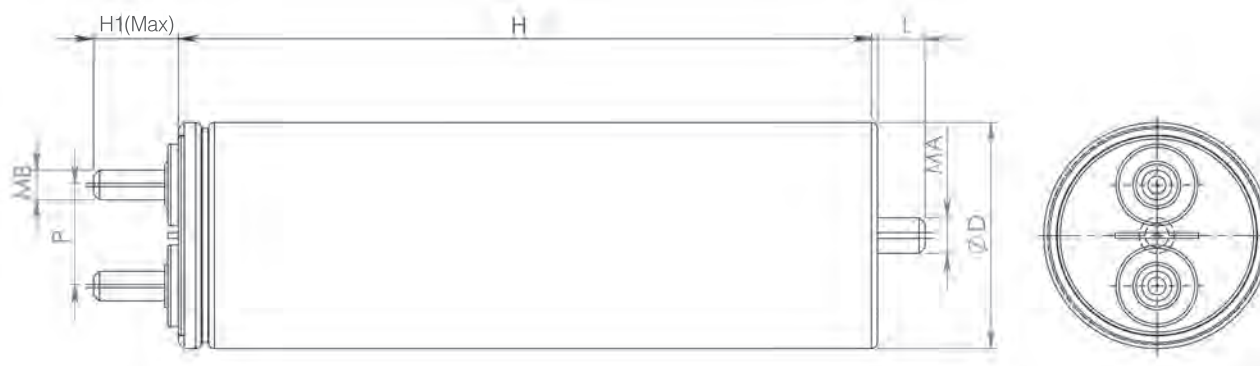


干式交流滤波电容器 AC filter capacitor (Dry-type)

■ 外形图 Outline Drawing



D	P ± 1.0	H1(Max)	MA	L ± 1.0
50	22.5	25	M8	10
55	22.5	25	M10	12
76	34	35	M12	16
86	34	35	M12	16

■ 特点

- 适用于电力电子设备、UPS电源中的交流滤波电路，能承受较高的纹波电流及峰值电流、电压
- 具有优良的自愈特性
- 高稳定性，可靠性
- 干式设计，安装方式更灵活

■ Features

- The capacitors particularly suit for AC filter circuit in power electric equipment and UPS power unit. They have ability to withstand high r.m.s current and high peak voltage.
- Self-healing property
- Excellent stable performance and reliability
- Dry type design, installation is more flexible

■ 技术要求 Specifications

引用标准 Reference standards	GB/T 17702 (IEC 61071)
额定电压 (方均根值) Rated voltage(U_{rms})	300Vac, 500Vac
额定频率 Rated frequency (f_N)	50/60Hz
电容偏差值 Capacitance tolerance	± 5%, ± 10%, -5% ~ +10%
冲击电流 Inrush current ($\hat{I}_s$)	100I _N
极间耐压 Test voltage between Terminals, (U_{T-T})	2.15 U_{rms} 或 1.5 U_{NAC} , 10s
极壳耐压 Test voltage between terminals to case, (U_{T-C})	3 000Vac, 10s
损耗角正切值 Dissipation factor (tg δ) @50Hz	≤ 0.0010



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气候类别 Climatic category	40/70/21
可运行温度范围 Operating temperature(θ_{hs})	-25℃ ~ 70℃
贮存温度范围 Storage Temperature	-40℃ ~ 85℃
防护等级 Degree of protection	IP00
预期寿命 Life Expectancy	After 60 000 hours at U_{rms} 、50℃ $\Delta C/C \leq 5\%$
安装位置 Mounting position	任意方向 Any position
冷却方式 Cooling	自然空气或强制制冷 Naturally air-cooled or force cooled
最大电极扭矩 Max Torque of terminals	M6: 3Nm; M8: 5Nm; M10: 8Nm
最大安装扭矩 Max. Torque of installation	M8: 5Nm; M10: 7Nm; M12: 10Nm
最高海拔 Max Altitude	2 000m

产品编码说明 Part number system

■ 18位产品代码如下:

The 18 digits part number is formed as follow:

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18
C	6	9															

第1~3位	型号代码	Digit 1 to 3	Series code
第4~5位	交流额定电压 Q1=300V H2=500V	Digit 4 to 5	A.C. rated voltage Q1=300V H2=500V
第6~8位	标称容量 举例: $107=10 \times 10^7 \text{ pF} = 100 \mu\text{F}$	Digit 6 to 8	Rated capacitance value For example: $107=10 \times 10^7 \text{ pF} = 100 \mu\text{F}$
第9位	容量等级 $J=\pm 5\%, K=\pm 10\%, 6=-5\% \sim +10\%$	Digit 9	Capacitance tolerance $J=\pm 5\%, K=\pm 10\%, 6=-5\% \sim +10\%$
第10位	产品外形尺寸代码	Digit 10	Dimension code

D	H	Code	D	H	Code	D	H	Code
76	235	1	76	185	4	55	135	7
86	235	2	50	100	5	76	130	8
76	140	3	55	100	6	50	85	9

第11位	内部特征码	Digit 11	Internal use
第12~15位	引出端形式代码	Digit 12 to 15	Terminals code

第 12 位 Digit 12		第 13 位 Digit 13		第 14 位 Digit 14		第 15 位 Digit 15	
Code	引出端形式 Terminal form	Code	安装形式 Fixed style	Code	引线长度 Length of lead wire	Code	是否有放电电阻 With or without discharge resistor
2	螺栓式 M10 Bolt M10	7	下部螺栓 M12 Bottom-bolt M12	0	标准形式 Standard form	0	无放电电阻 Without resistor
K	螺栓式 M8 Bolt M8	6	下部螺栓 M10 Bottom-bolt M10				
J	螺栓式 M6Bolt M6	5	下部螺栓 M8 Bottom-bolt M8				

第16~18位	内部特征码	Digit 16 to 18	Internal use
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■ 技术参数 Technical data

$U_{NAC} = 420Vac$ $U_{rms} = 300Vac$										
C_N (μF)	$D \pm 1.0$ (mm)	$H \pm 3.0$ (mm)	MB	R_s (m Ω)	R_{th} ($^{\circ}C/W$)	I_{max} (A)	$\hat{I}$ (kA)	$\hat{I}_s$ (kA)	M (kg)	Part number
20	50	85	M6	22.0	14.2	8	0.1	0.2	0.2	C69Q1206-90J500+++
40	50	100	M6	17.3	10.4	11	0.2	0.4	0.2	C69Q1406-50J500+++
50	55	100	M6	13.8	9.6	11	0.2	0.5	0.3	C69Q1506-60J600+++
60	55	135	M6	24.8	8.3	11	0.3	0.6	0.3	C69Q1606-70J600+++
100	76	140	M10	9.7	6.2	14	1.0	3	0.9	C69Q1107-322700+++
200	76	140	M6	4.8	6.3	28	2.0	6	0.9	C69Q1207-30J700+++
200	76	140	M10	4.8	6.3	28	2.0	6	0.9	C69Q1207-322700+++
200	76	235	M10	4.9	3.7	42	6.0	18	1.4	C69Q1207-102700+++

$U_{NAC} = 700Vac$ $U_{rms} = 500Vac$										
C_N (μF)	$D \pm 1.0$ (mm)	$H \pm 3.0$ (mm)	MB	R_s (m Ω)	R_{th} ($^{\circ}C/W$)	I_{max} (A)	$\hat{I}$ (kA)	$\hat{I}_s$ (kA)	M (kg)	Part number
10	50	85	M6	16.0	14.0	9	0.2	0.5	0.2	C69H2106-90J500+++
20	50	100	M6	13.0	10.2	12	0.3	0.7	0.2	C69H2206-50J500+++
30	55	135	M6	16.0	7.4	13	0.5	0.7	0.4	C69H2306-70J600+++
50	76	130	M10	9.6	6.7	18	0.8	1.2	0.8	C69H2506-802700+++
80	76	185	M10	3.4	4.5	37	1.3	3.8	1.1	C69H2806-402700+++
100	76	235	M10	9.5	3.7	35	4.0	12	1.4	C69H2107-102700+++
133	86	235	M10	7.2	3.4	47	5.3	15.9	1.8	C69H2A00-202700+++
150	86	235	M10	6.4	3.2	53	6.0	18	1.7	C69H2157-202700+++

备注：1. “-”表示容量偏差。 “-”=capacitance tolerance code K= $\pm 10\%$, J= $\pm 5\%$

2. “+++”表示内部特征码。 “+++”= Internal use

3. 上表中所列的尺寸为本产品系列中的常用壳号尺寸，其它规格尺寸也可生产。引出端尺寸参照国家标准。

Sizes above are normally used dimension, other dimension can be produced in pursuance of customer's request.

Sizes of terminals please refer to corresponding national standard.

■ 使用温度 temperature

温度对于聚丙烯膜式电容器来讲是影响损耗的一大因素，这会影响到产品的使用寿命。

Temperature is one of the main stress factors for polypropylene type capacitors, means it has a major influences on the life cycle of the capacitor.

■ 谐波 Harmonics

谐波是由于一些非线性电器运行时造成的，这些载荷诸如现代电力电子中的转换器、电气传动、焊接机、备用电源等。纹波由一系列频率为50赫或60赫倍数的正弦电流和电压组成。

Harmonics result from the operation of electrical loads with non-linear voltage-current characteristics.

They are caused by loads operated with modern power electronic, such as converters, electrical drives, welding machines and stand-by power supplies. Harmonics are sinusoidal voltages and currents with frequencies that are multiples of a 50Hz or 60Hz power supply frequency.



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■ 安全注意事项 **Safety**

电容器外壳保持良好和可靠接地.

Maintain good and effective earthing for enclosures of capacitors.

拆装电容器时要确保电容器已放电干净

Handle capacitor to ensure capacitor has discharge clean

遵循良好的工程规范

Follow good engineering practices

■ 过流/短路保护 **Over current/short circuit protection**

必须使用限流熔断器或塑壳断路器来进行短路保护。短路保护的元件以及连接电缆需能长时间承受1.5倍电容器额定电流。

HRC-fuse or MCCB for short circuit protection have to be used. Short circuit protection equipment and connection cable should be selected so that the 1.5 times rated current of the capacitor can be managed permanently.

限流熔断器额定电流值应为正常电容电流的1.6~1.8倍

HRC-fuse rating has to be 1.6 to 1.8 times nominal capacitor current

使用热磁继电器为过载保护

Use thermal magnetic overcurrent relays for overload protection

■ 维护 **Maintenance**

检查连接线与端子螺丝是否打紧

Check tightness of Connections/terminals periodically

定期清理引出端子避免因灰尘或其他可导电的垃圾引起短路

Clean the terminals periodically to avoid dust or other conductive garbage can cause a short-circuit

检查短路保护保险丝

Check short circuit protection fuses

每半年使用电流钳表或其他在线测电流的工具测量电容器电流

Every half a year use current clamp table or other on-line measuring tools of current measurement capacitor current