

C72

Ac Harmonic Filter Capacitor

AC谐波滤波电容器

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产品特点.Characteristics

- 圆形外壳封装, 干式树脂灌注;
 - 镀锡铜螺母/铜螺杆引出, 塑料定位盖, 安装方便;
 - 耐压高, 具有自愈性;
 - 高纹波电流, 高dv/dt承受能力;
 - 容量大、体积小
- Aluminum round case package, perfused with epoxy resin
 - Lead by tinned copper nut or copper screw, located plastic cover, easy installation
 - High withstand voltage, self-healing
 - High ripple current, high dv/dt withstand capability
 - Large capacitance, small size

产品应用.Application

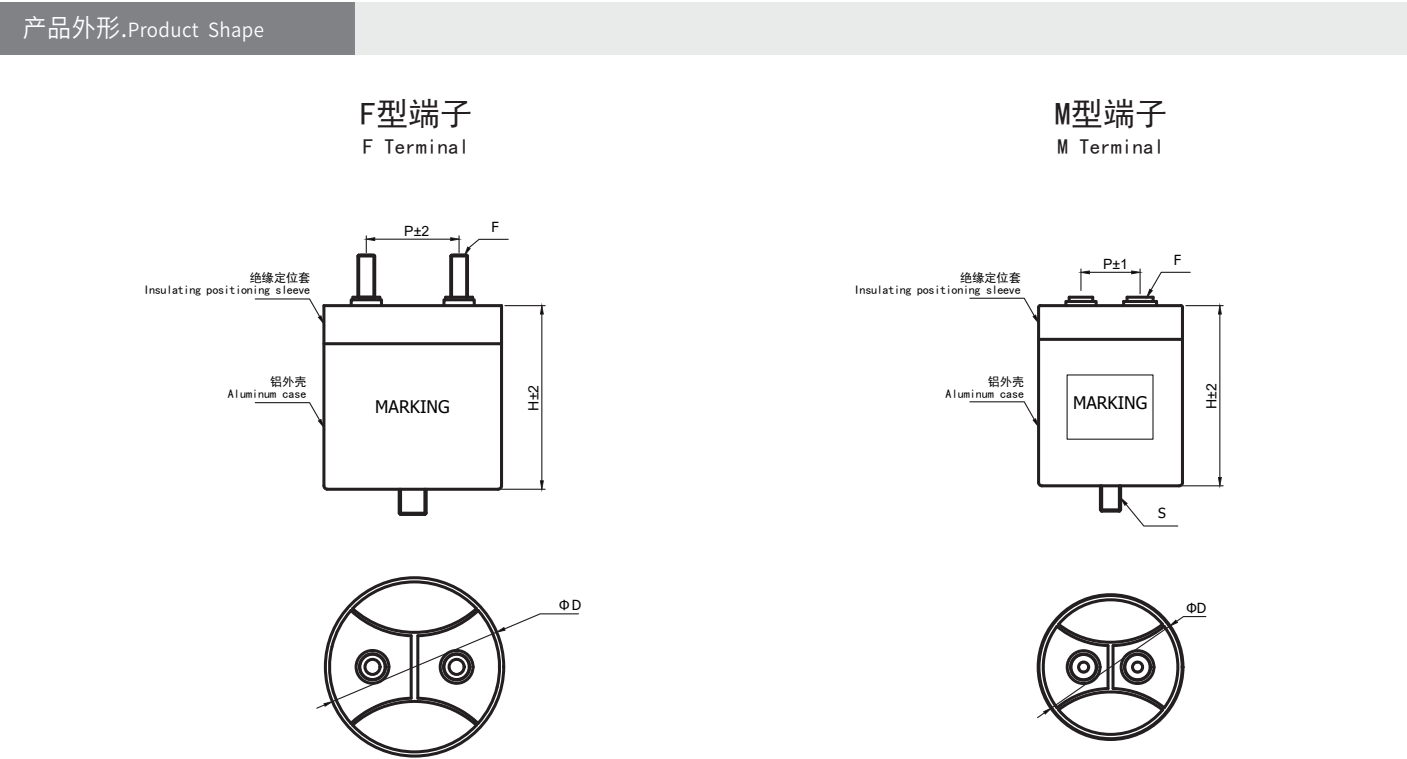
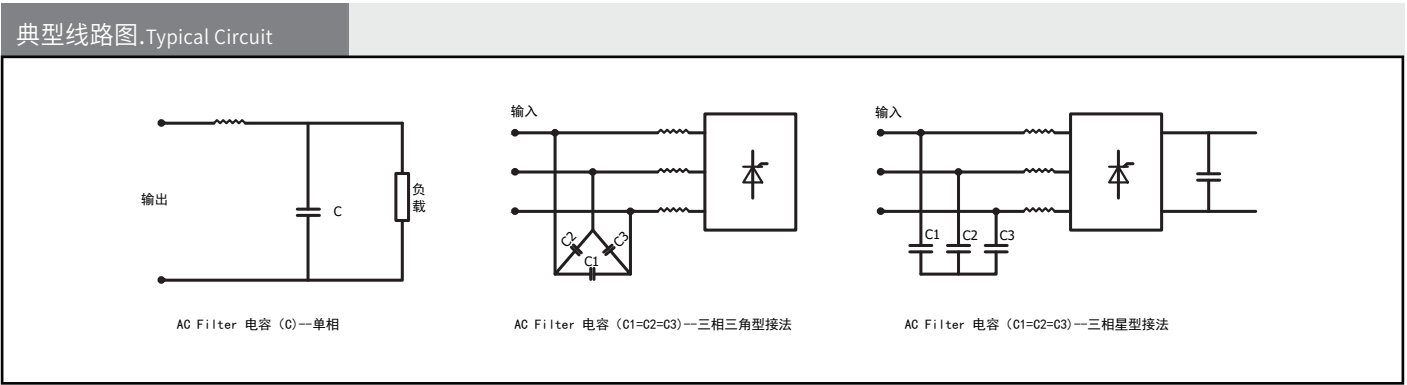
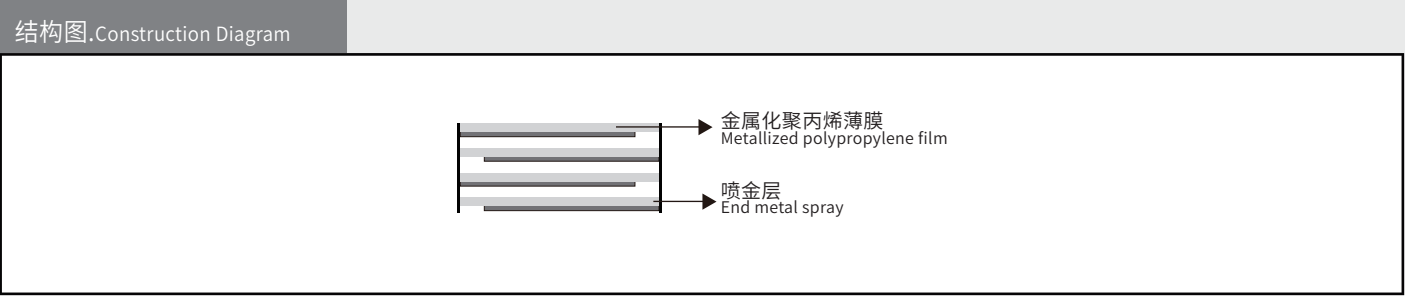
- 广泛应用于电力电子设备中作交流滤波用。
 - 在大功率UPS, 开关电源, 变频器等设备中作交流滤波, 治理谐波及提高功率因数。
- Widely used in power electronic equipment used for the AC filter
 - Acting as AC filter, harmonic control and power factor Improvement in high power UPS, switching power Supply, frequency converter and other equipment

性能参数.Technical Data	
● 引用标准 Reference Standards	GB/T 17702 IEC 61071
● 工作温度范围 Operating Temperature Range	-40℃~+70℃ Tmax+85℃
● 容量范围 Capacitance Range	20μF~500μF
	3×40μF~3×200μF
● 额定电压 Rated Voltage	250VAC/50Hz~1140VAC/50Hz
● 容量偏差 Capacity Tolerance	±5%(J); ±10%(K)
● 极间耐电压 Test Voltage Between Electrodes	2.15UN (AC) 10S 20℃
● 极壳耐电压 Test Voltage Between Electrode And Case	1000+2×UN (VAC) 50Hz 60S (min 3000VAC)
● 损耗角正切 Dissipation Factor	tgδ≤2×10-3 at 20℃, 100Hz
● 绝缘电阻 Insulation Resistance	C•R≥10000S, at 100VDC, 20℃, 60S
● 最高使用海拔高度/maximum Altitude	2000m
	海拔2000m以上至5000m以内, 需要考虑降额使用 (每增加1000m, 电压及电流降额10%使用) For altitudes between 2000m and 5000m, consideration should be given to the use of deductions (10% reduction in voltage and current per 1000m increase)
● 预期寿命 Life Expectancy	100000hrs (Un θhotspot ≤ 55℃)

过压运行.Overtoltage Operation	
1.1×Un	One operation cycle allows 30% of the time the voltage is 1.1 times or less than 1.1 times.
1.15×Un	30 min/day
1.2×Un	5 min/day
1.3×Un	1min/day
1.5×Un	100ms each time, and no more than 1000 times during the lifetime

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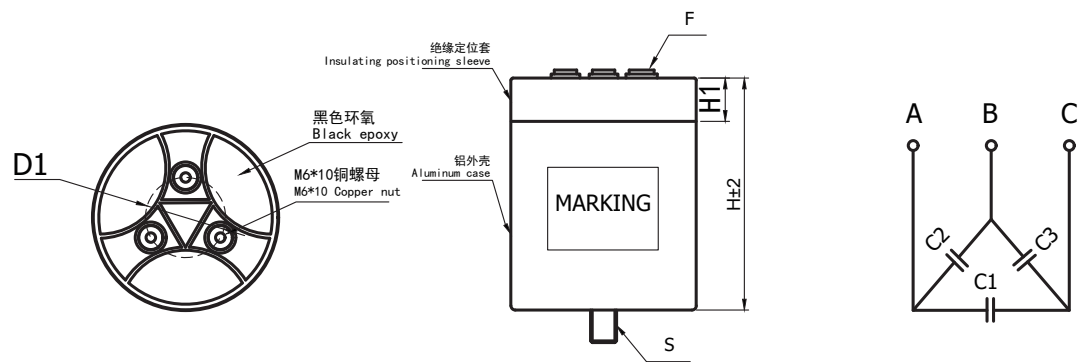
单相交流电容器外形图 The contour map

D(mm)	P(mm)	H1(mm)	S(mm)	F(mm)	M(mm)
76	32	20	M12×16	M6×10	M8×20
86	32	20	M12×16	M6×10	M8×20
96	45	20	M12×16	M6×10	M8×20
106	50	35	M12×16	M6×10	M8×20
116	50	40	M12×16	M6×10	M8×20
136	50	30	M16×25	M6×10	M8×20

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产品外形.Product Shape



三相交流电容器外形图 The contour map

D(mm)	H1(mm)	S(mm)	F(mm)	M(mm)	D1(mm)
116	40	M12×16	M6×10	M8×20	50
136	30	M16×25	M6×10	M8×20	60

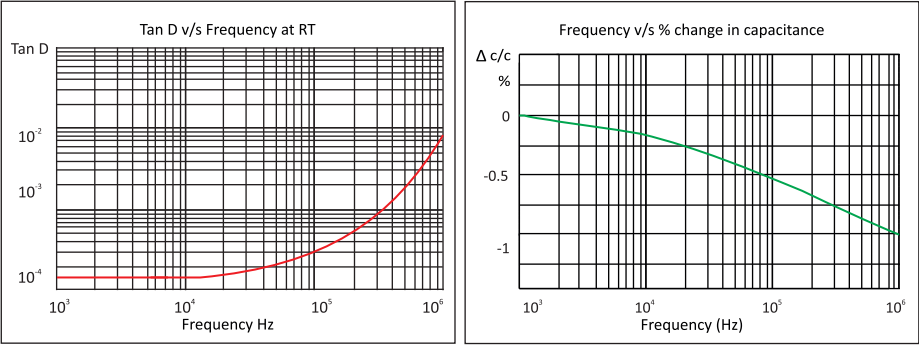
产品编码.Product Coding

01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19			
C	7	2	X	X	N	N	X	X	X	N							-				
产品型号 Product model			额定电压 Rated voltage XX*10 ⁿ (V)			多个容量引出 Multiple capacity extraction 单相 空缺 三相 3X		标称容量 Nominal capacity XX*10 ⁿ (pF)			引出电极 Extraction electrode F-螺母 F-Nut			容量偏差 Capacity deviation J ±5% K ±10%			引线型号 Lead wire type			序号号 Serial number 01、02 ...	

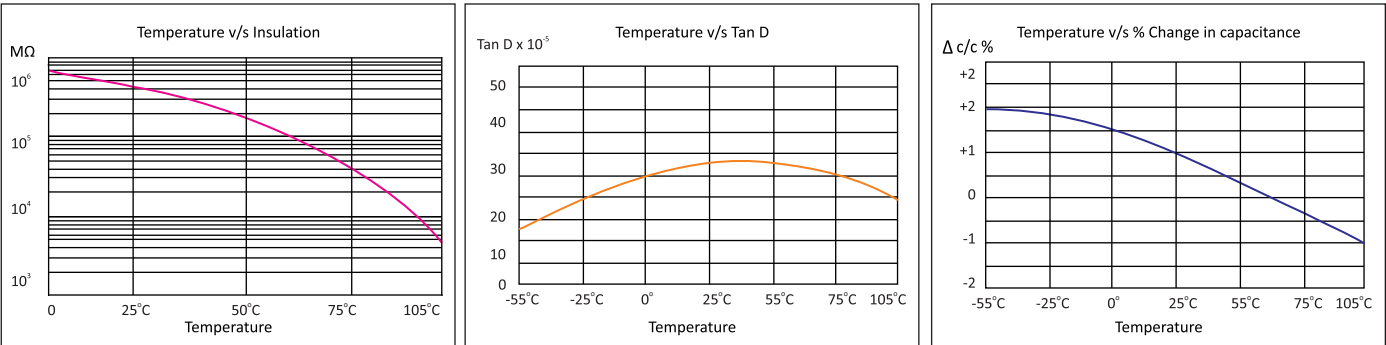
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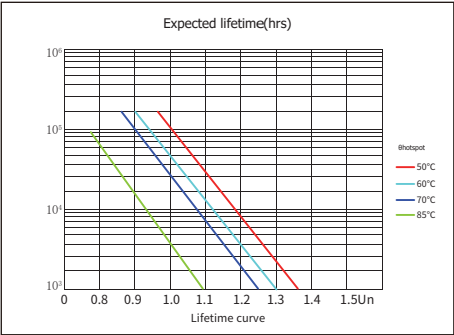
频率特性.Temperature Characteristics



温度特性.Frequency Characteristics



预期寿命 Life Expectancy



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参数表.Article Table

Part Number	CAP μF	Dimension (mm)			dV/dt (V/μS)	Ip (KA)	Is (KA)	Irms @ 50℃ (A)	Rth (K/W)	ESL (nH)	ESR @1KHz (mΩ)
		D	H	P							
UN =250VAC US=800VDC											
C72251507JMM10-01	500	86	195	32	25	12.5	37.5	60	1.4	60	1.8
UN =300VAC US=1000VDC											
C72301157JMM8-01	150	76	185	32	30	4.5	13.5	45	2.0	50	3.8
C72301257JMM8-01	250	86	185	32	40	10.0	30.0	60	1.6	60	3.2
UN =330VAC US=1200VDC											
C72331806J••••••	80	76	80	32	80	6.4	19.2	30	4.2	40	4.0
C72331127J••••••	120	86	80	32	70	8.4	25.2	40	3.3	40	2.8
C72331157J••••••	150	96	80	45	70	10.5	31.5	50	1.7	45	3.5
C72331177J••••••	170	76	130	32	60	10.2	30.6	60	1.3	50	3.2
C72331237J••••••	230	86	130	32	60	13.8	41.4	70	1.3	50	2.4
C72331307J••••••	300	96	130	45	50	15.0	45.0	75	1.0	50	2.8
C72331427J••••••	420	116	130	50	50	21.0	63.0	80	1.2	60	1.9
UN =450VAC US=1520VDC											
C72451306JFM6-01	30	76	85	32	90	2.7	8.1	20	4.5	40	5.0
C72451506J••••••	50	76	80	32	90	4.5	13.5	30	4.2	40	4.0
C72451656J••••••	65	86	80	32	80	5.2	15.6	40	3.3	50	2.8
C72451806J••••••	80	96	80	45	80	6.4	19.2	50	1.7	45	3.5
C72451107J••••••	100	76	130	32	70	7.0	21.0	60	1.3	50	3.2
C72451137J••••••	130	86	130	32	60	7.8	23.4	70	1.3	45	2.4
C72451167J••••••	160	96	130	45	50	8.0	24.0	75	1.0	50	2.8
C72451257J••••••	250	116	130	50	50	12.5	37.5	80	1.2	60	1.9
UN =690VAC US=2100VDC											
C72691406J••••••	40	76	130	32	100	4.0	12.0	30	6.0	50	2.8
C72691506J••••••	50	76	150	32	90	4.5	13.5	35	5.1	45	2.4
C72691606J••••••	60	86	130	32	80	4.8	14.4	40	4.3	45	2.2
C72691656J••••••	65	86	150	32	80	5.2	15.6	45	4.1	50	1.8
C72691756J••••••	75	96	130	45	80	6.0	18.0	50	4.0	50	1.5
C72691806J••••••	80	96	150	45	75	6.0	18.0	60	3.5	55	1.2
C72691117J••••••	110	116	130	50	70	7.7	23.1	65	4.4	60	0.8
C72691127J••••••	120	116	150	50	50	6.0	18.0	75	4.4	65	0.6

以上表格/图形仅供参考，以实物为准，(单位:mm)
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		D	H	P							
UN =850VAC Us2850VDC											
C72851256J●●●●●●	25	76	130	32	110	2.8	8.4	35	8.2	50	1.5
C72851306J●●●●●●	30	76	150	32	100	3.0	9.0	40	7.8	60	1.2
C72851326J●●●●●●	32	86	130	32	100	3.2	9.6	50	5.2	45	1.15
C72851406J●●●●●●	40	96	130	45	90	3.6	10.8	50	6.0	50	1.0
C72851456J●●●●●●	45	86	150	32	90	4.1	12.2	50	5.7	50	1.05
C72851606J●●●●●●	60	96	150	45	85	5.1	15.3	60	4.6	60	0.9
C72851606J●●●●●●	60	116	130	50	80	4.8	14.4	65	4.2	60	0.85
C72851906J●●●●●●	90	116	150	50	75	6.8	20.3	75	3.3	65	0.8
UN =450VAC Us=1520VDC											
C724513×117J●●●●●●	3×110	116	100	43.5	60	6.6	19.8	3×50	4.5	100	3×0.78
C724513×147J●●●●●●	3×145	116	110	43.5	50	7.3	21.8	3×60	3.8	110	3×0.72
C724513×177J●●●●●●	3×175	116	120	43.5	50	8.8	26.3	3×75	3.5	120	3×0.67
C724513×207J●●●●●●	3×200	136	230	52.0	40	8.0	24.0	3×85	2.1	125	3×0.6
UN =500VAC Us=1520VDC											
C725013×107J●●●●●●	3×100	116	180	43.5	80	8.0	24.0	3×45	4.5	100	3×0.78
C725013×127J●●●●●●	3×120	116	230	43.5	70	8.4	25.2	3×50	3.8	120	3×0.72
C725013×127J●●●●●●	3×125	136	180	52	40	5.0	15.0	3×70	3.5	110	3×0.67
C725013×137J●●●●●●	3×135	136	230	52	50	6.8	20.3	3×80	2.1	130	3×0.6
UN =690VAC Us=2100VDC											
C726913×496J●●●●●●	3×49	116	230	43.5	70	3.4	10.2	3×56	2.1	120	3×0.55
C726913×556J●●●●●●	3×55.7	136	230	52.0	90	5.0	15.0	3×60	2.1	130	3×0.4
UN =850VAC Us2850VDC											
C728513×416J●●●●●●	3×41.5	116	230	43.5	80	3.3	9.0	3×56	2.1	120	3×0.55
C728513×556J●●●●●●	3×55.7	136	230	52.0	70	4.0	12.0	3×75	1.8	130	3×0.45

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