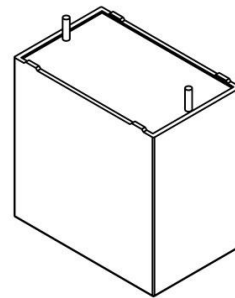
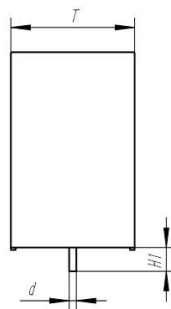
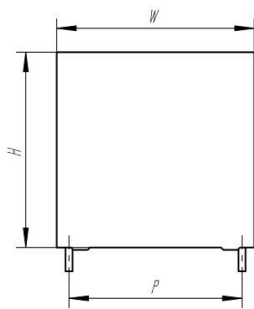
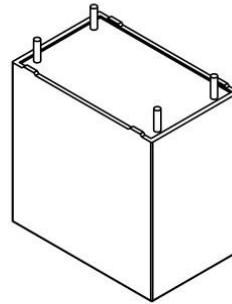
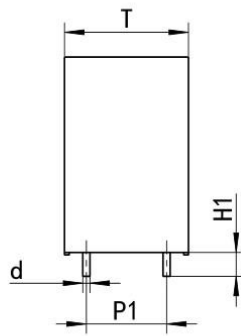
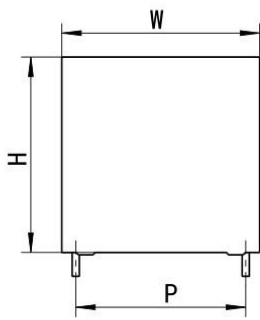


外形图 Outline Drawing

PCB 板用交流滤波电容器
AC-filter Capacitor



应用

Applications

- ◆ 小功率交流滤波电路
- ◆ Small power AC filter
- ◆ 风能发电、太阳能发电用变频器上 LCL 滤波
- ◆ Solar Photovoltaic DC/AC inverter with LCL filter



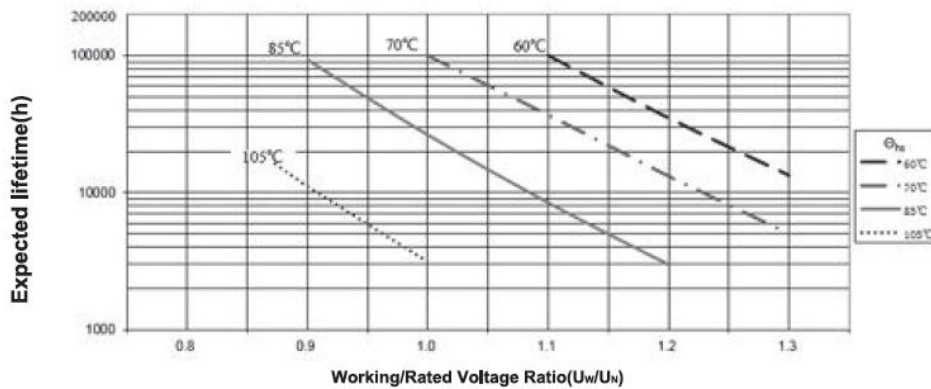
特征

- ◆ 低等效串联电阻，高纹波电流处理能力
- ◆ 低电感
- ◆ 寿命时间长
- ◆ 自愈特性

Features

- ◆ Low ESR, high ripple current handling capabilities
- ◆ Low ESL
- ◆ Long Lifetime
- ◆ Self-healing property

预期寿命曲线图 Expected lifetime curve



新能源电容产品编码规则 (10 位)

The 10 digits part number is formed as follow.

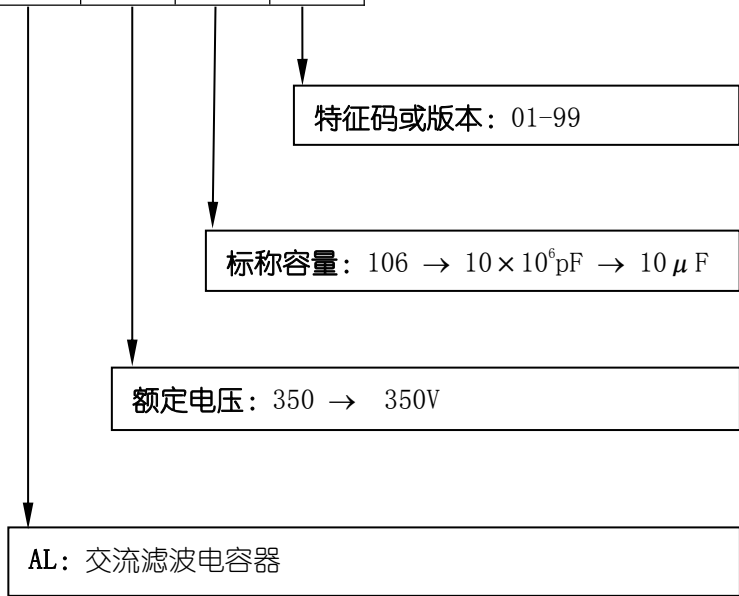
型号代码:

Model type code:

AL***:交流滤波电容器 (AC filter capacitor)

1 2 3 4 5 6 7 8 9 10

AL	350	1 0 6	0 1
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范例: 交流滤波电容器 350VAC $10 \mu\text{F}$
 编码: AL350106**



技术要求 Specifications

引用标准 Reference Standard	GB/T 17702(IEC 61071)
气候类别 Climatic Category	40/105/56
工作温度范围 Operating Temperature Range	-40℃~105℃ ($\theta_{hs} \leq 105^\circ\text{C}$)
储存温度范围 Storage Temperature Range	-40℃~85℃
额定电压 (Un) Rated Voltage	180Vac~350Vac
额定容量 (Cn) Reted Capacitance	1~60 μF
电容量允许偏 Capacitance Tolerance	±5% (J)、±10% (K)
耐电压(两极之间) Test Voltage Between Terminals	1.5 U _{ac} (10S, 20±5℃)
耐电压(极壳之间) Test Voltage Between Terminals&Case	2000+2U _{NAC} , min 3,000Vac (10S, 50Hz, 20℃±5℃)
介质损耗 tg δ_0	0.0002
IR×Cn	≥5,000S (20℃, 100Vdc, 1min)
过电压 Over Voltage	1.1U _{rms} (8h/day)
	1.15r _{ms} (30min/day)
	1.2U _{rms} (5 min/day)
	1.3U _{rms} (200times/lifetime)
最大使用海拔 Max. Altitude	2,000m
安装 Installation	任意方向 Any Position
预期寿命 Expected Lifetime	参考预期寿命曲线 Refer to Expected Lifetime curve
失效率 Failure rate	50FIT

注：如果使用海拔高度超过 2,000m, 应考虑海拔对对流冷却及外绝缘的影响。

The effect of altitude on convection cooling and external insulation should be taken into consideration, if the altitude exceeds 2,000m.



技术参数 Technical data

Urms =180Vac Un=250Vac Undc = 300Vdc

Cn (μ F)	W (mm)	H (mm)	T (mm)	P (m Ω)	P1 (nH)	d mm	Ls (nH)	ESR (m Ω)	\hat{I} (A)	\hat{I}_s (kA)	I _{max} (A)	Part number
10	41	32	17	37.5	-	1.2	22	5.5	400	1200	10	AL18010601
15	41	37	22	37.5	-	1.2	24	3.8	600	1800	14	AL18015601
18	42	36	23	37.5	-	1.2	25	3.2	720	2160	14	AL18018601
20	42	36	23	37.5	-	1.2	25	3.0	800	2400	14	AL18020601
22	41	41	26	37.5	-	1.2	26	2.7	880	2640	14	AL18022601
25	41	41	30	37.5	-	1.2	27	2.5	1000	3000	14	AL18025601
30	42	45	30	37.5	-	1.2	28	2.1	1200	3600	14	AL18030601
33	42	45	30	37.5	-	1.2	29	2.0	1320	3960	14	AL18033601
40	57	43.5	29.5	52.5	20.3	1.2	26	3.1	800	2400	20	AL18040601
50	57	50	35	52.5	20.3	1.2	28	2.6	1000	3000	24	AL18050601
60	57	50	35	52.5	20.3	1.2	29	2.2	1200	3600	27	AL18060601

技术参数 Technical data

Urms =250Vac Un=350Vac Undc = 475Vdc

Cn (μ F)	W (mm)	H (mm)	T (mm)	P (m Ω)	P1 (nH)	d mm	Ls (nH)	ESR (m Ω)	\hat{I} (A)	\hat{I}_s (kA)	I _{max} (A)	Part number
5.0	42	28	14	37.5	-	1.2	26	7.3	300	900	8	AL25050501
6.0	41	32	17	37.5	-	1.2	26	6.1	360	1080	9	AL25060501
6.5	41	32	17	37.5	-	1.2	26	5.6	390	1170	10	AL25065501
6.8	41	33.5	18.5	37.5	-	1.2	27	5.4	408	1224	10	AL25068501
7.5	41	33.5	18.5	37.5	-	1.2	27	4.9	450	1350	11	AL25075501
8.0	41	37	22	37.5	-	1.2	27	4.6	480	1440	12	AL25080501
10	41	37	22	37.5	-	1.2	28	3.7	600	1800	13	AL25010601
12	41	41	26	37.5	-	1.2	29	3.0	720	2160	14	AL25012601
15	41	41	26	37.5	-	1.2	30	2.4	900	2700	14	AL25015601
18	41	43	28	37.5	-	1.2	31	2.0	1080	3240	14	AL25018601
20	42	45	30	37.5	-	1.2	32	1.8	1200	3600	14	AL25020601
22	42	45	30	37.5	-	1.2	33	1.7	1320	3960	14	AL25022601
25	57	43.5	29.5	52.5	20.3	1.2	31	3.3	750	2250	18	AL25025601
30	57	43.5	29.5	52.5	20.3	1.2	32	2.7	900	2700	20	AL25030601
35	57	50	35	52.5	20.3	1.2	32	2.3	1050	3150	23	AL25035601
40	57	50	35	52.5	20.3	1.2	33	2.0	1200	3600	25	AL25040601



技术参数 Technical data

Urms =300Vac Un=425Vac Undc = 560Vdc

Cn (μ F)	W (mm)	H (mm)	T (mm)	P (m Ω)	P1 (nH)	d mm	Ls (nH)	ESR (m Ω)	\hat{I} (A)	\hat{I}_s (kA)	I _{max} (A)	Part number
4.0	41	32	17	37.5	-	1.2	22	7.6	280	840	8	AL30040501
4.7	41	32	17	37.5	-	1.2	23	6.4	330	990	9	AL30047501
5.0	41	33.5	18.5	37.5	-	1.2	24	6.0	350	1050	10	AL30050501
6.0	41	33.5	18.5	37.5	-	1.2	25	5.0	420	1260	11	AL30060501
6.8	41	37	22	37.5	-	1.2	25	4.4	476	1428	12	AL30068501
8.0	41	37	22	37.5	-	1.2	26	3.8	560	1680	13	AL30080501
10	41	41	26	37.5	-	1.2	28	3.0	700	2100	14	AL30010601
12	41	43	28	37.5	-	1.2	29	2.5	840	2520	14	AL30012601
15	42	45	30	37.5	-	1.2	30	2.1	1050	3150	14	AL30015601
18	57	43.5	29.5	52.5	20.3	1.2	29	3.8	720	2160	17	AL30018601
20	57	43.5	29.5	52.5	20.3	1.2	29	3.4	800	2400	18	AL30020601
22	57	43.5	29.5	52.5	20.3	1.2	30	3.1	880	2640	20	AL30022601
25	57	50	35	52.5	20.3	1.2	31	2.7	1000	3000	21	AL30025601
28	57	50	35	52.5	20.3	1.2	32	2.4	1200	3360	23	AL30028601

技术参数 Technical data

Urms =350Vac Un=480Vac Undc = 600Vdc

Cn (μ F)	W (mm)	H (mm)	T (mm)	P (m Ω)	P1 (nH)	d mm	Ls (nH)	ESR (m Ω)	\hat{I} (A)	\hat{I}_s (kA)	I _{max} (A)	Part number
8.0	41	41	26	37.5	-	1.0	30	5.1	292	876	10.5	AL35080501
8.5	41	43	28	37.5	-	1.0	32	4.9	310	930	10.5	AL35085501
9.0	41	43	28	37.5	-	1.0	31	4.7	328	985	10.5	AL35090501
9.5	42	45	30	37.5	-	1.0	33	4.5	347	1040	10.5	AL35095501
10	42	45	30	37.5	-	1.0	32	4.4	365	1095	10.5	AL35010601
10	57	45	25	52.5	-	1.2	34	5.7	260	781	11.6	AL35010602
11	57	45	25	52.5	-	1.2	33	5.3	286	859	11.9	AL35011601
12	57	43.5	29.5	52.5	20.3	1.2	29	4.4	312	937	14.1	AL35012602
15	57	45	35	52.5	20.3	1.2	31	3.7	391	1172	16.4	AL35015601
16	57	45	35	52.5	20.3	1.2	30	3.5	417	1250	16.8	AL35016601
18	57	50	35	52.5	20.3	1.2	33	3.2	469	1406	18.1	AL35018601
20	57	50	40	52.5	20.3	1.2	32	2.9	521	1562	19.8	AL35020601

可依客户要求定制电容

