

交流滤波电容器(PCB)

AC filter capacitor for (PCB)

■ 引用标准 reference standards

GB/T17702, IEC 61071

■ 结构

- 介质: 聚丙烯膜
- 电极: 特殊工艺金属真空蒸发层
- 封装: 阻燃环氧树脂, 符合 UL94 V-0
- 外壳: 阻燃 PBT 塑壳, 符合 UL94 V-0
- 引脚: 镀锡铜引线

■ 典型应用

- 适用于小功率交流滤波电路 (如: UPS、太阳能光伏 DC/AC 逆变器中的 LCL 滤波)

■ 特点

- 外观一致性好; 有良好自愈性; 抗湿性强; 寿命长; 耐过电压优良。

■ 符合 ROHS 标准 conform to ROHS standards

■ structure

- Dielectric: Polypropylene film
- Electrode: special craft metal vacuum evaporation layer
- Encapsulation: inflame retardant epoxy resin, conforming to UL94 V-0.
- Shell: inflame retardant PBT plastic shell, conforming to UL94 V-0
- Lead foot: tinned copper wire

■ typical application

- Suitable for small power AC filter, i.e. UPS, Solar Photovoltaic DC/AC inverter with LCL filter

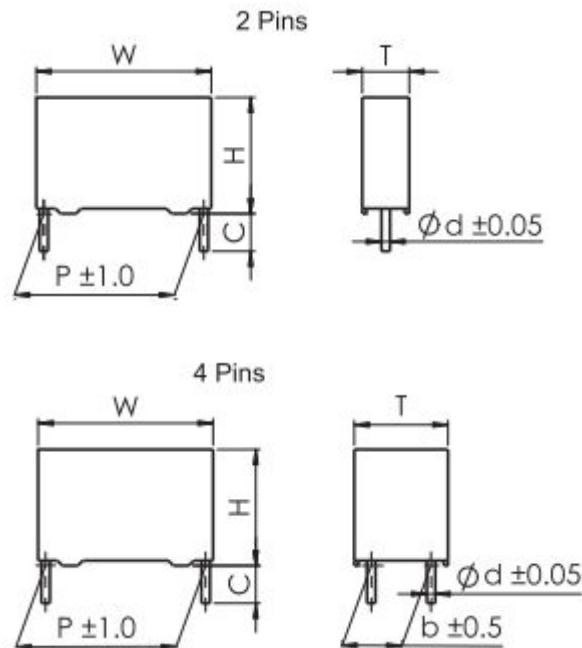
■ characteristics

- Good appearance consistency, good self-healing property, good humidity resistance. It can withstand large pulse current and excellent ability to withstand overvoltage.

■ 技术参数 technical parameter

气候类别 Climatic Category	40/85/56			
工作温度（外壳温度） Operating Temperature Range (Case)	-40℃~105℃ （+85℃to105℃:decreasing factor1.5%per℃ for U _{rms} ）			
额定均方根电压 Rated RMS Voltage(U _{rms})	180Vac	250Vac	300Vac	350Vac
额定交流电压 Rated a.c.Voltage(U _n)	250Vac	350Vac	425Vac	480Vac
最大连续直流电压 Max continuous DC voltage	300Vdc	475Vdc	560Vdc	600Vdc
电容量范围 Capacitance Range	4.0μF~60.0μF	1.0μF~40.0μF	1.0~28.0μF	0.33μF~27.0μF
电容量误差 Capacitance Tolerance	J—±5% , K—±10%			
耐电压 Voltage Proof	引线之间 Between Terminals: 1.5U _N (Vac) (10s)			
	极壳之间 Between Terminals To Case: 3000Vac			
绝缘电阻 Insulation Resistance(IR _x C _N)	≥3000s (20℃,100Vdc,60s)			
损耗角 Dissipation Factor	≤20x10 ⁻⁴ (1Khz,20℃)			
注：若用于户外或产期湿度较大场合，建议选用防潮设计。 Note: If used for outdoor or production humidity is high, choose moisture design is recommended.				

■ 外形图 Outline Drawing



■ C6A 产品编码规则 C6A product coding principle

■ 16 位产品代码规定如下: 16-digit product code is specified as follows:



■ 各部分组成内容 Composition and content of various parts

■ 型号代码 (第 1~3 位数) type code (1th to 3th digit)

■ C6A 交流滤波电容器(PCB)

C6A AC filter capacitor for (PCB)

■ 标称容量 (第 4~6 位数) Nominal capacitance (4th to 6th digit)

例如 e.g.: 104 = $10 \times 10^4 \text{ pF} = 0.1 \mu\text{F}$

■ 标容量误差代码 (第 7 位数) Nominal capacitance tolerance code (7th digit)

例如 e.g.: J = $\pm 5\%$ K = $\pm 10\%$

■ 额定电压 (第 8~9 位数) rated voltage: (8th to 9th digit)

18=500Vac 25=250Vac 30=300Vac 35=350Vac

■ 塑壳代码 (第 10~11 位数) plastic code (10 th to 11th digit)

塑壳代码 Plastic shell code	塑壳尺寸 Plastic shell dimension W*T*H	塑壳代码 Plastic shell code	塑壳尺寸 Plastic shell dimension W*T*H	塑壳代码 Plastic shell code	塑壳尺寸 Plastic shell dimension W*T*H	塑壳代码 Plastic shell code	塑壳尺寸 Plastic shell dimension W*T*H
F0	31.5*9*18	F1	31.5*10.8*19.5	F2	31.5*13*21.5	F3	31*14*25
F4	31.5*16*25.5	F5	31.5*16*30	F6	31*18*33	FA	31.5*22*37
S0	41.5*11*22	S1	41.5*12*26	S2	41.5*14*28	S3	41.5*16*30
S4	41.5*17*32	S5	41.5*18.5*33.5	S6	41.5*22*37	S7	41.5*26*41
S8	41.5*28*43	S9	42*30*45	H3	57*25*45	H4	57*29.5*43.5
H5	57*35*45	H6	57*35*50	H7	57*40*50		

备注: 使用涉及到和极限参数有关问题请与圣融达联系

Note: Any questions related to the parameters using, please contact Sincerity.

<http://www.srdkj.com>

交流滤波电容器(PCB)

AC filter capacitor for (PCB)

■ (SRD 商标 / 塑壳颜色) (第 12 位数) internal recognition code (12th to digit)

■ (线径) (第 13 位数) internal recognition code (13th to digit)

■ 引线加工和包装代码 (14~16) 见表 1 所示

Lead process and package code (14th~15th digit), see table one:

第 14 位 14 th digit			第 15~16 位 15 th to 16 th digit		
代码 code	内容说明 Content explanation		代码 code	内容说明	
1	4 条引线 4 lead	b=15.0mm	35	引线 lead	L=3.5±0.5mm
2	4 条引线 4 lead	b=10.0mm	38	引线 lead	L=3.8±0.5mm
3	4 条引线 4 lead	b=12.7mm	40	引线 lead	L=4.0±0.5mm
4	4 条引线 4 lead	b=20.0mm	45	引线 lead	L=4.5±0.5mm
5	4 条引线 4 lead	b=20.3mm	50	引线 lead	L=5.0±0.5mm
6	4 条引线 4 lead	b=10.2mm	55	引线 lead	L=5.5±0.5mm
7	4 条引线 4 lead	b=5.10mm	60	引线 lead	L=6.0±0.5mm
8	4 条引线 4 lead	b=15.2mm	65	引线 lead	L=6.5±0.5mm

■ 技术参数 Technical data (mm)

Urms=180Vac, U _N =250Vac, U _{NDC} =300Vdc													
CN (μF)	Part number	Dimension (mm) ±1.0			P ± 1.0	b ± 0.5	pins	d ±0.05	L _s (nH)	Î (A)	Î _s (A)	ESR @10KHZ (mΩ)	I _{max} 10KHZ@70℃ (A)
		W	T	H									
4.0	C6A405J18F2**0=	31.5	13.0	21.5	27.5	--	2	1.0	16	280	840	6.7	7
5.0	C6A405J18F4**0=	31.5	16.0	25.5	27.5	--	2	1.0	18	350	1050	5.3	8
6.8	C6A685J18F6**0=	31.0	18.0	33.0	27.5	--	2	1.2	21	476	1428	3.9	11
10.0	C6A106J18F6**0=	31.0	18.0	33.0	27.5	--	2	1.2	20	700	2100	2.7	13
10.0	C6A106J18S4**0=	41.5	17.0	32.0	37.5	--	2	1.2	22	400	1200	4.9	10
15.0	C6A106J18S6**0=	41.5	22.0	37.0	37.5	--	2	1.2	24	600	1800	3.3	14
18.0	C6A186J18S6**0=	41.5	22.0	37.0	37.5	--	2	1.2	25	720	2160	2.7	14
20.0	C6A206J18S6**0=	41.5	22.0	37.0	37.5	--	2	1.2	25	800	2400	2.5	14
22.0	C6A226J18S7**0=	41.5	26.0	41.0	37.5	--	2	1.2	26	880	2640	2.2	14
25.0	C6A256J18S7**0=	41.5	26.0	41.0	37.5	--	2	1.2	27	1000	3000	2.0	14
30.0	C6A306J18S9**0=	42.0	30.0	45.0	37.5	--	2	1.2	28	1200	3600	1.6	14
33.0	C6A306J18S9**0=	42.0	30.0	45.0	37.5	--	2	1.2	29	1320	3960	1.5	14
40.0	C6A406J18H4**0=	57.0	29.5	43.5	52.5	20.3	4	1.2	26	800	2400	2.6	20
50.0	C6A406J18H6**0=	57.0	35.0	50.0	52.5	20.3	4	1.2	28	1000	3000	2.1	24
60.0	C6A606J18H6**0=	57.0	35.0	50.0	52.5	20.3	4	1.2	29	1200	3600	1.7	27

备注: 使用涉及到和极限参数有关问题请与圣融达联系

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■ 技术参数 Technical data (mm)

Urms=250Vac, U _N =350Vac, U _{NDC} =475Vdc													
CN (μF)	Part number	Dimension (mm) ±1.0			P ±1.0	b ±0.5	pins	d ±0.05	L _S (nH)	Î (A)	Î _S (A)	ESR @10KHZ (mΩ)	I _{max} 10KHZ@70℃ (A)
		W	T	H									
1.0	C6A105J25F0**0==	31.5	9.0	18.0	27.5	--	2	1.0	20	90	270	19.3	3
1.5	C6A155J25F1**0==	31.5	10.8	19.5	27.5	--	2	1.0	20	135	405	12.9	4
2.0	C6A205J25F2**0==	31.5	13.0	21.5	27.5	--	2	1.0	20	180	540	9.6	5
2.2	C6A225J25F2**0==	31.5	13.0	21.5	27.5	--	2	1.0	20	198	594	8.8	6
2.5	C6A255J25F2**0==	31.5	13.0	21.5	27.5	--	2	1.0	20	225	675	7.7	6
3.0	C6A305J25F3**0==	31.0	14.0	25.0	27.5	--	2	1.0	20	270	810	6.4	7
3.3	C6A335J25F3**0==	31.0	14.0	25.0	27.5	--	2	1.0	21	294	891	5.8	8
3.5	C6A355J25F4**0==	31.5	16.0	25.5	27.5	--	2	1.0	23	315	945	5.5	8
4.0	C6A405J25F6**0==	31.0	18.0	33.0	27.5	--	2	1.2	22	360	1080	4.8	10
4.5	C6A455J25F6**0==	31.0	18.0	33.0	27.5	--	2	1.2	23	405	1215	4.3	10
5.0	C6A505J25F6**0==	31.0	18.0	33.0	27.5	--	2	1.2	23	450	1350	3.9	11
6.8	C6A685J25FA**0==	31.5	22.0	37.0	27.5	--	2	1.2	24	612	1836	2.8	14
4.7	C6A475J25S2**0==	41.5	14.0	28.0	37.5	--	2	1.2	24	282	846	7.8	7
5.0	C6A505J25S2**0==	41.5	14.0	28.0	37.5	--	2	1.2	26	300	900	7.3	8
6.0	C6A605J25S4**0==	41.5	17.0	32.0	37.5	--	2	1.2	26	360	1080	6.1	9
6.5	C6A655J25S4**0==	41.5	17.0	32.0	37.5	--	2	1.2	26	390	1170	5.6	10
6.8	C6A685J25S5**0==	41.5	18.5	33.5	37.5	--	2	1.2	27	408	1224	5.4	10
7.5	C6A755J25S5**0==	41.5	18.5	33.5	37.5	--	2	1.2	27	450	1350	4.9	11
8.0	C6A805J25S6**0==	41.5	22.0	37.0	37.5	--	2	1.2	27	480	1440	4.6	12
10.0	C6A106J25S6**0==	41.5	22.0	37.0	37.5	--	2	1.2	28	600	1800	3.7	13
12.0	C6A126J25S7**0==	41.5	26.0	41.0	37.5	--	2	1.2	29	720	2160	3.0	14
15.0	C6A156J25S7**0==	41.5	26.0	41.0	37.5	--	2	1.2	30	900	2700	2.4	14
18.0	C6A186J25S8**0==	41.5	28.0	43.0	37.5	--	2	1.2	31	1080	3240	2.0	14
20.0	C6A206J25S9**0==	41.5	30.0	45.0	37.5	--	2	1.2	32	1200	3600	1.8	14
22.0	C6A226J25S7**0==	41.5	30.0	45.0	37.5	--	2	1.2	33	1320	3960	1.7	14
25.0	C6A256J25H4**0==	57.0	29.5	43.5	52.5	20.3	4	1.2	31	750	2250	3.3	18
30.0	C6A306J25H4**0==	57.0	29.5	43.5	52.5	20.3	4	1.2	32	900	2700	2.7	20
35.0	C6A356J25H6**0==	57.0	35.0	50.0	52.5	20.3	4	1.2	32	1050	3150	2.3	23
40.0	C6A406J25H6**0==	57.0	35.0	50.0	52.5	20.3	4	1.2	33	1200	3600	2.0	25

■ 技术参数 Technical data (mm)

Urms=300Vac, U _N =425Vac, U _{NDC} =560Vdc													
CN (μF)	Part number	Dimension (mm) ±1.0			P ± 1.0	b ± 0.5	pins	d ±0.05	L _S (nH)	Î (A)	Î _S (A)	ESR @10KHZ (mΩ)	I _{max} 10KHZ@70℃ (A)
		W	T	H									
1.0	C6A105J30F1**0==	31.5	20.8	19.5	27.5	--	2	1.0	16	100	300	15.9	4
1.5	C6A155J30F2**0==	31.5	13.0	21.5	27.5	--	2	1.0	17	150	450	10.6	5
2.0	C6A205J30F3**0==	31.0	14.0	25.0	27.5	--	2	1.0	18	200	600	8.9	6
2.2	C6A225J30F3**0==	31.0	14.0	25.0	27.5	--	2	1.0	18	220	660	8.0	7
2.5	C6A255J30F4**0==	31.6	16.0	25.5	27.5	--	2	1.0	19	250	750	7.2	8
3.0	C6A305J30F6**0==	31.0	18.0	33.0	27.5	--	2	1.2	21	300	900	6.4	9
3.3	C6A335J30F6**0==	31.0	18.0	33.0	27.5	--	2	1.2	20	330	990	5.3	10
3.5	C6A355J30F6**0==	31.0	18.0	33.0	27.5	--	2	1.2	21	350	1050	4.8	10
4.0	C6A405J30F6**0==	31.0	18.0	33.0	27.5	--	2	1.2	21	400	1200	4.6	11
4.7	C6A475J30FA**0==	31.5	22.0	37.0	27.5	--	2	1.2	22	470	1410	4.0	13
5.0	C6A505J30FA**0==	31.5	22.0	37.0	27.5	--	2	1.2	22	500	1500	3.4	13
6.8	C6A685J30FA**0==	31.5	22.0	37.0	27.5	--	2	1.2	23	680	2040	3.2	14
3.0	C6A305J30S2**0==	41.5	14.0	28.0	37.5	--	2	1.2	22	210	630	10.1	6
3.3	C6A335J30S2**0==	41.5	14.0	28.0	37.5	--	2	1.2	22	231	693	9.2	7
3.5	C6A355J30S2**0==	41.5	14.0	28.0	37.5	--	2	1.2	23	245	375	8.6	7
4.0	C6A405J30S4**0==	41.5	17.0	32.0	37.5	--	2	1.2	24	280	840	7.6	8
4.5	C6A455J30S4**0==	41.5	17.0	32.0	37.5	--	2	1.2	24	315	945	6.7	9
4.7	C6A475J30S4**0==	41.5	17.0	32.0	37.5	--	2	1.2	24	329	987	6.4	9
5.0	C6A505J30S5**0==	41.5	18.5	33.5	37.5	--	2	1.2	24	350	1050	6.0	10
6.0	C6A605J30S5**0==	41.5	18.5	33.5	37.5	--	2	1.2	25	420	1260	5.0	11
6.8	C6A685J30S6**0==	41.5	22.0	37.0	37.5	--	2	1.2	25	476	1428	4.4	12
8.0	C6A805J30S6**0==	41.5	22.0	37.0	37.5	--	2	1.2	26	560	1680	3.8	13
10.0	C6A106J30S7**0==	41.5	26.0	41.0	37.5	--	2	1.2	28	700	2100	3.0	14
12.0	C6A126J30S8**0==	41.5	28.0	43.0	37.5	--	2	1.2	29	840	2520	2.5	14
15.0	C6A156J30S9**0==	42.0	30.0	45.0	37.5	--	2	1.2	30	1050	315	2.1	14
18.0	C6A186J30H4**0==	57.0	29.5	43.5	52.5	20.3	4	1.2	29	720	2160	3.8	17
20.0	C6A206J30H4**0==	57.0	29.5	43.5	52.5	20.3	4	1.2	29	800	2400	3.4	18
22.0	C6A226J30H4**0==	57.0	29.5	43.5	52.5	20.3	4	1.2	30	880	2640	3.1	20
25.0	C6A256J30H6**0==	57.0	35.0	50.0	52.5	20.3	4	1.2	31	1000	3000	2.7	21
28.0	C6A286J30H6**0==	57.0	35.0	50.0	52.5	20.3	4	1.2	32	1120	3360	2.4	23

交流滤波电容器(PCB)

AC filter capacitor for (PCB)

■ 技术参数 Technical data (mm)

Urms=350Vac, U _N =480Vac, U _{NDC} =600Vdc													
CN (μF)	Part number	Dimension (mm) ±1.0			P ± 1.0	b ± 0.5	pins	d ±0.05	L _s (nH)	Î (A)	Î _s (A)	ESR @10KHZ (mΩ)	I _{max} 10KHZ@70℃ (A)
		W	T	H									
0.33	C6A334J35F0**0==	31.5	9.0	18.0	27.5	--	2	0.8	17	17	51	53.9	1.6
0.39	C6A394J35F0**0==	31.5	9.0	18.0	27.5	--	2	0.8	17	20	60	46.0	1.7
0.47	C6A474J35F0**0==	31.5	9.0	18.0	27.5	--	2	0.8	17	24	72	38.6	1.9
0.68	C6A684J35F1**0==	31.5	10.8	19.5	27.5	--	2	0.8	18	35	105	27.5	2.5
0.82	C6A824J35F2**0==	31.5	13.0	21.5	27.5	--	2	0.8	18	42	126	23.3	3.0
1.0	C6A105J35F2**0==	31.5	13.0	21.5	27.5	--	2	1.0	18	51	153	19.6	3.2
1.5	C6A155J35F3**0==	31.0	14.0	25.0	27.5	--	2	1.0	19	76	228	14.0	4.2
2.0	C6A205J35F5**0==	31.5	16.0	30.0	27.5	--	2	1.0	21	102	306	11.1	5.0
2.2	C6A225J35F5**0==	31.5	16.0	30.0	27.5	--	2	1.0	20	112	336	10.4	5.2
2.5	C6A255J35F6**0==	31.0	18.0	33.0	27.5	--	2	1.0	22	127	381	7.0	6.2
3.0	C6A305J35FA**0==	31.5	22.0	37.0	27.5	--	2	1.0	24	153	459	5.8	7.4
3.3	C6A335J35FA**0==	31.5	22.0	37.0	27.5	--	2	1.0	24	168	504	5.3	7.7
3.5	C6A355J35FA**0==	31.5	22.0	37.0	27.5	--	2	1.0	23	178	534	5.0	7.9
4.0	C6A405J35FA**0==	31.5	22.0	37.5	27.5	--	2	1.0	23	204	612	4.4	8.2
1.0	C6A105J35S0**0==	41.5	11.0	22.0	37.5	--	2	1.0	24	36	108	28.0	2.8
1.5	C6A155J35S1**0==	41.5	12.0	26.0	37.5	--	2	1.0	25	55	165	19.3	3.7
2.0	C6A205J35S2**0==	41.5	14.0	28.0	37.5	--	2	1.0	26	73	219	14.9	4.6
2.2	C6A225J35S2**0==	41.5	14.0	28.0	37.5	--	2	1.0	25	80	240	13.7	4.8
2.5	C6A255J35S3**0==	41.5	16.0	30.0	37.5	--	2	1.0	27	91	273	12.3	5.3
3.0	C6A305J35S3**0==	41.5	16.0	30.0	37.5	--	2	1.0	26	109	327	10.5	5.7
3.3	C6A335J35S4**0==	41.5	17.0	32.0	37.5	--	2	1.0	29	120	360	9.7	6.2
3.5	C6A355J35S4**0==	41.5	17.0	32.0	37.5	--	2	1.0	28	128	384	9.3	6.4
4.0	C6A405J35S5**0==	41.5	18.5	33.5	37.5	--	2	1.0	29	146	438	8.3	7.0
4.5	C6A455J35S6**0==	41.5	22.0	37.0	37.5	--	2	1.0	31	164	492	7.6	8.0
5.0	C6A505J35S6**0==	41.5	22.0	37.0	37.5	--	2	1.0	30	182	546	7.0	8.3
5.5	C6A555J35S6**0==	41.5	22.0	37.0	37.5	--	2	1.0	29	201	603	6.6	8.6
6.0	C6A605J35S7**0==	41.5	26.0	41.0	37.5	--	2	1.0	32	219	657	6.2	9.7
6.5	C6A655J35S7**0==	41.5	26.0	41.0	37.5	--	2	1.0	31	237	711	5.8	10.0
7.0	C6A705J35S7**0==	41.5	26.0	41.0	37.5	--	2	1.0	31	255	765	5.5	10.3
7.5	C6A755J35S7**0==	41.5	26.0	41.0	37.5	--	2	1.0	30	274	822	5.3	10.5

备注: 使用涉及到和极限参数有关问题请与圣融达联系

Note: Any questions related to the parameters using, please contact Sincerity.

<http://www.srdkj.com>

■ 技术参数 Technical data (mm)

Urms=350Vac, U _N =480Vac, U _{NDC} =600Vdc													
CN (μF)	Part number	Dimension (mm) ±1.0			P ± 1.0	b ± 0.5	pins	d ±0.05	L _S (nH)	Î (A)	Î _S (A)	ESR @10KHZ (mΩ)	I _{max} 10KHZ@70℃ (A)
		W	T	H									
8.0	C6A805J35S7**0==	41.5	26.0	41.0	37.5	--	2	1.0	30	292	876	5.1	10.5
8.5	C6A855J35S8**0==	41.5	28.0	43.0	37.5	--	2	1.0	32	310	930	4.9	10.5
9.0	C6A905J35S8**0==	41.5	28.0	43.0	37.5	--	2	1.0	31	328	986	4.7	10.7
9.5	C6A955J35S9**0==	42.0	30.0	45.0	37.5	--	2	1.0	33	347	1041	4.5	10.7
10.0	C6A106J35S9**0==	42.0	30.0	45.0	37.5	--	2	1.0	32	365	1095	4.4	10.9
10.0	C6A106J35H3**0==	57.0	25.0	45.0	52.5	--	2	1.2	34	260	780	5.7	11.6
11.0	C6A116J35H3**0==	57.0	25.0	45.0	52.5	--	2	1.2	33	286	858	5.3	11.9
12.0	C6A126J35H4**0==	57.0	29.5	43.5	52.5	20.3	4	1.2	29	312	936	4.4	14.1
15.0	C6A156J35H5**0==	57.0	35.0	45.0	52.5	20.3	4	1.2	31	391	1173	3.7	16.4
16.0	C6A166J35H5**0==	57.0	35.0	45.0	52.5	20.3	4	1.2	30	417	1251	3.5	16.8
18.0	C6A186J35H6**0==	57.0	35.0	50.0	52.5	20.3	4	1.2	33	469	1408	3.2	18.1
20.0	C6A206J35H7**0==	57.0	40.0	50.0	52.5	20.3	4	1.2	32	521	1563	2.9	19.8

备注 Note: 1. “* *”表示内部识别码。“* *” stands for internal recognition code.

2. “=”表示引线加工和包装代码见表 1 所示。stands for lead process and package code, see table one.

3. “I_{max}”测试条件：环境温度 70℃，频率为 10KHz，外壳温度达到 85℃下的有效值。“I_{max}”test conditions: ambient temperature 70℃, frequency 10KHz, shell temperature reaching the valid value below 85℃.

4. “ESR”, “L_S”均为典型值测试数据。“ESR”and “L_S” are both typical value test data.

5. “Urms=300Vac”：随着电源电压波动，最大交流施加电压为 300Vac。300Vac 为相对额定电压 240Vac、电源电压波动时的最大值，并非连续施加电压的保证值。

“Urms=300Vac”：As the power supply voltage fluctuation, the maximum a.c. Voltage is 300Vac, And 300Vac is the maximum voltage when the power supply voltage (rated voltage is 240Vac) is in a Fluctuation, instead of guarantee of continuous voltage value.

6. “Urms=350Vac”：适用于 277Vac 电网电压场合。

“Urms=350Vac” use in 277Vac power supply voltage.