

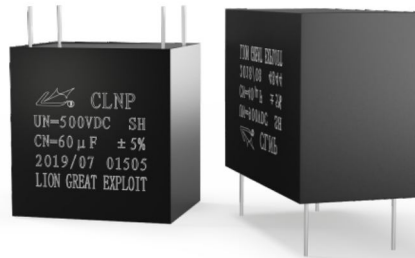
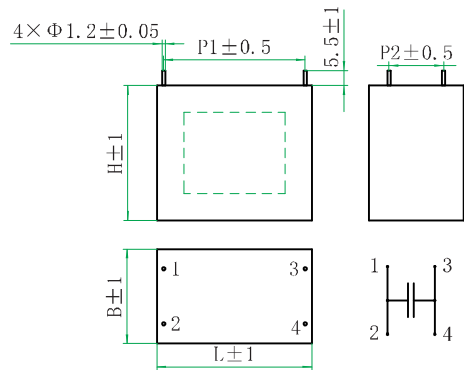
### 产品特点 Introduction

- ◆ 盒式封装，重量轻，体积小，针式引出，适用于电路板安装；  
Box packaging, light weight, small volume, pin out, suitable for circuit board installation ;
- ◆ ESR值小；  
Low ESR ;
- ◆ 可承受高频纹波电流；  
High Irms rating ;
- ◆ 可承受高的峰值电流；  
High I rating ;
- ◆ 自感低；  
Low self-inductance ;
- ◆ 可靠性高、寿命长；  
High reliability and life expectancy ;
- ◆ 具有自愈性；  
With self-healing ;
- ◆ 非极性介质。  
Non-polar.

### 应用领域 Applications

- ◆ 高性能直流链应用；  
High performance DC chain application;
- ◆ 混合动力汽车/电动汽车：即动力系统 and OBC；  
HEV/EV : i.e. power train and OBC;
- ◆ 新能源逆变器系统；  
Renewable energies inverters;
- ◆ 电机驱动系统；  
Motor drives system;
- ◆ 开关电源。  
Power supplies.

### 外形图 Outline Drawing



### 技术参数 Parameter

额定电压	$U_N$	450Vdc ~ 1200Vdc
标称电容量	$C_N$	3.9 $\mu$ F ~ 180 $\mu$ F
容量等级	Tolerance	$\pm 5\%$ 、 $\pm 10\%$
极间耐压	$U_{t-t}$	$1.5U_{NDC}$ ( 10s )
极间绝缘电阻	Insulation Resistance	$C_N \geq 10000s$ ( 500V, 1min )
损耗角正切	$\tan \delta$	$\leq 0.0010$ ( 100Hz ) ;
热点温度	$\theta$ hs	105°C
运行环境温度	Operating Temperature	- 40°C ~ +105°C
储存温度	Storage Temperature	-40°C ~ +85°C
阻燃等级	Flame Retardation	UL94 V-0
海拔高度	Altitude	$\leq 2000m$
预期寿命	Life expectancy	100 000h ( 85°C、 $U_N$ 、 $\Delta C/C \leq \pm 3\%$ )
参考标准	Reference standards	IEC 61071、GB/T 17702、AECQ 200
电压降额	Voltage derating	

DC voltage rating						
$U_N$ at 70°C	500	600	800	900	1100	1200
$U_N$ at 85°C	450	550	700	800	900	1100
$U_N$ at 105°C	300	350	500	575	650	700

选型表 Specifications table

这两个参数标反了

U <sub>N</sub> Vdc	C <sub>N</sub> μF	I <sub>max</sub> A	dV/dt V/μs	İ A	İ <sub>s</sub> kA	ESR mΩ 10kHz	L <sub>s</sub> nH 1MHz	L mm	B mm	H mm	P1 mm	P2 mm	Weight g	Part No.
450	12	5	470	39	2.3	6.3	19	31	14	28	26	9	24	P0450D00012uJN3**19
450	15	6	587	39	2.9	5.0	19	30.5	28	18	25.5	23	29	P0450D00015uJN3**19
450	18	7	705	39	3.5	4.2	19	31	18	33	26	13	33	P0450D00018uJN3**19
450	22	6	611	28	3.1	6.8	22	42.5	16	32	37.5	11	39	P0450D00022uJN3**19
450	27	8	750	28	3.8	5.6	22	42.5	19	32	37.5	14	44	P0450D00027uJN3**19
450	33	9	917	28	4.6	4.5	22	42.5	22	33.5	37.5	17	52	P0450D00033uJN3**19
450	39	11	1084	28	5.4	3.8	22	42.5	22	37	37.5	17	56	P0450D00039uJN37C19
450	47	13	1306	28	6.5	3.2	22	42.5	28	37	37.5	23	70	P0450D00047uJN37C19
450	56	16	1556	28	7.8	2.7	22	42.5	28	43	37.5	23	79	P0450D00056uJN3**19
450	68	19	1890	28	9.4	2.2	22	42.5	30	45	37.5	25	86	P0450D00068uJN37C19
450	82	23	2279	28	11.4	1.8	22	42.5	35	45	37.5	30	98	P0450D00082uJN37419
450	100	19	1873	19	9.4	3.3	25	57.5	30	45	52.5	25	112	P0450D00100uJN37419
450	120	22	2247	19	11.2	2.8	25	57.5	35	45	52.5	30	128	P0450D00120uJN37419
450	150	28	2809	19	14.0	2.2	25	57	38	54	52	33	165	P0450D00150uJN3**19
450	180	34	3371	19	16.9	1.8	25	57.5	42.5	56	52.5	37.5	191	P0450D00180uJN37119
550	10	4	420	42	2.1	7.1	19	31	14	28	26	9	24	P0550D00010uJN3**19
550	12	5	503	42	2.5	5.9	19	30.5	28	18	25.5	23	29	P0550D00012uJN3**19
550	15	6	629	42	3.1	4.7	19	31	18	33	26	13	34	P0550D00015uJN3**19
550	18	5	536	30	2.7	7.8	22	42.5	16	32	37.5	11	38	P0550D00018uJN3**19
550	22	7	655	30	3.3	6.4	22	42.5	19	32	37.5	14	45	P0550D00022uJN3**19
550	27	8	804	30	4.0	5.2	22	42.5	22	33.5	37.5	17	53	P0550D00027uJN3**19
550	33	10	983	30	4.9	4.2	22	42.5	22	37	37.5	17	56	P0550D00033uJN37C19
550	39	12	1161	30	5.8	3.6	22	42.5	28	37	37.5	23	70	P0550D00039uJN37C19
550	47	14	1400	30	7.0	3.0	22	42.5	28	43	37.5	23	80	P0550D00047uJN3**19
550	56	17	1667	30	8.3	2.5	22	42.5	30	45	37.5	25	87	P0550D00056uJN37419
550	68	20	2025	30	10.1	2.1	22	42.5	33	45	37.5	28	93	P0550D00068uJN37419
550	82	16	1645	20	8.2	3.8	25	57.5	28	45	52.5	23	105	P0550D00082uJN37419
550	100	20	2007	20	10.0	3.1	25	57.5	35	45	52.5	30	130	P0550D00100uJN37419
550	120	24	2408	20	12.0	2.6	25	57.5	35	50	52.5	30	140	P0550D00120uJN37519
550	150	30	3010	20	15.1	2.1	25	57.5	42.5	56	52.5	37.5	193	P0550D00150uJN37119
550	180	36	3612	20	18.1	1.7	28	57.5	50	53	52.5	45	211	P0550D00180uJN3**19
700	10	5	490	49	2.4	6.0	19	30.5	28	18	25.5	23	29	P0700D00010uJN3**19
700	12	6	587	49	2.9	5.0	19	31	18	33	26	13	33	P0700D00012uJN3**19
700	15	5	521	35	2.6	8.0	22	42.5	16	32	37.5	11	38	P0700D00015uJN3**19
700	18	6	625	35	3.1	6.7	22	42.5	19	32	37.5	14	44	P0700D00018uJN3**19
700	22	8	764	35	3.8	5.5	22	42.5	22	33.5	37.5	17	51	P0700D00022uJN3**19
700	27	9	938	35	4.7	4.4	22	42.5	28	37	37.5	23	71	P0700D00027uJN37C19
700	33	11	1146	35	5.7	3.6	22	42.5	28	37	37.5	23	68	P0700D00033uJN37C19
700	39	14	1355	35	6.8	3.1	22	42.5	28	43	37.5	23	77	P0700D00039uJN3**19
700	47	16	1633	35	8.2	2.6	22	42.5	33	45	37.5	28	94	P0700D00047uJN37419
700	56	19	1945	35	9.7	2.1	22	42.5	32.5	50	37.5	27.5	100	P0700D00056uJN37519
700	68	16	1592	23	8.0	3.9	25	57.5	30	45	52.5	25	110	P0700D00068uJN37419
700	82	19	1920	23	9.6	3.2	25	57.5	35	50	52.5	30	143	P0700D00082uJN37519
700	100	23	2341	23	11.7	2.6	25	57.5	38	54	52.5	33	164	P0700D00100uJN3**19
700	120	28	2809	23	14.0	2.2	25	57.5	42.5	56	52.5	37.5	188	P0700D00120uJN37119
800	8.2	5	459	56	2.3	6.5	19	30.5	28	18	25.5	23	28	P0800D0082uJN3**19
800	10	6	559	56	2.8	5.3	19	31	18	33	26	13	32	P0800D00010uJN3**19
800	12	5	476	40	2.4	8.8	22	42.5	16	32	37.5	11	38	P0800D00012uJN3**19
800	15	6	596	40	3.0	7.0	22	42.5	22	33.5	37.5	17	53	P0800D00015uJN3**19
800	18	7	715	40	3.6	5.8	22	42.5	22	37	37.5	17	56	P0800D00018uJN37C19
800	22	9	873	40	4.4	4.8	22	42.5	28	37	37.5	23	70	P0800D00022uJN37C19
800	27	11	1072	40	5.4	3.9	22	42.5	28	43	37.5	23	80	P0800D00027uJN3**19
800	33	13	1310	40	6.6	3.2	22	42.5	30	45	37.5	25	86	P0800D00033uJN37419
800	39	15	1548	40	7.7	2.7	22	42.5	32.5	50	37.5	27.5	103	P0800D00039uJN37519
800	47	13	1258	27	6.3	4.9	25	57.5	28	45	52.5	23	104	P0800D00047uJN37419
800	56	15	1498	27	7.5	4.1	25	57.5	35	45	52.5	30	130	P0800D00056uJN37419
800	68	18	1819	27	9.1	3.4	25	57.5	35	50	52.5	30	139	P0800D00068uJN37519
800	82	22	2194	27	11.0	2.8	25	57	38	54	52	33	159	P0800D00082uJN3**19
800	100	25	2542	25	12.7	2.4	25	57.5	42.5	56	52.5	37.5	189	P0800D00100uJN37119

错了一行，第一行是4，然后向下移动一行  
这两个参数标反了

$U_N$ Vdc	$C_N$ $\mu F$	$I_{max}$ A	$dV/dt$ V/ $\mu s$	$\hat{i}$ A	$\hat{I}_s$ KA	ESR $m\Omega$ 10kHz	$L_s$ nH 1MHz	L mm	B mm	H mm	P1 mm	P2 mm	Weight g	Part No.
900	5.6	4	360	64	1.8	8.2	19	31	28	18	26	23	29	P0900D005D6uJN3**19
900	6.8	4	437	64	2.2	6.8	19	31	18	33	26	13	33	P0900D006D8uJN3**19
900	8.2	5	374	46	1.9	11.1	22	42.5	16	32	37.5	11	39	P0900D008D2uJN3**19
900	10	5	457	46	2.3	9.1	22	42.5	19	32	37.5	14	44	P0900D00010uJN3**19
900	12	7	548	46	2.7	7.6	22	42.5	22	33.5	37.5	17	52	P0900D00012uJN3**19
900	15	8	685	46	3.4	6.1	22	42.5	22	37	37.5	17	55	P0900D00015uJN37C19
900	18	10	822	46	4.1	5.1	22	42.5	28	37	37.5	23	69	P0900D00018uJN37C19
900	22	12	1004	46	5.0	4.2	22	42.5	28	43	37.5	23	78	P0900D00022uJN3**19
900	27	10	1233	46	6.2	3.4	22	42.5	33	45	37.5	28	95	P0900D00027uJN37419
900	33	12	1015	31	5.1	6.1	25	57.5	28	45	52.5	23	107	P0900D00033uJN37419
900	39	14	1200	31	6.0	5.2	25	57.5	30	45	52.5	25	110	P0900D00039uJN37419
900	47	17	1446	31	7.2	4.3	25	57.5	35	50	52.5	30	144	P0900D00047uJN37519
900	56	21	1723	31	8.6	3.6	25	57	38	54	52	33	164	P0900D00056uJN3**19
900	68	25	2092	31	10.5	3.0	25	57.5	42.5	56	52.5	37.5	189	P0900D00068uJN37119
900	82	3	2523	31	12.6	2.5	28	57.5	50	53	52.5	45	206	P0900D00082uJN3**19
1100	4.7	4	329	70	1.6	9.0	19	31	28	18	26	23	29	P1100D004D7uJN3**19
1100	5.6	3	392	70	2.0	7.6	19	31	18	33	26	13	33	P1100D005D6uJN3**19
1100	6.8	4	337	50	1.7	12.4	22	42.5	16	32	37.5	11	39	P1100D006D8uJN3**19
1100	8.2	5	407	50	2.0	10.3	22	42.5	19	32	37.5	14	45	P1100D008D2uJN3**19
1100	10	6	496	50	2.5	8.4	22	42.5	22	33.5	37.5	17	52	P1100D00010uJN3**19
1100	12	7	596	50	3.0	7.0	22	42.5	22	37	37.5	17	56	P1100D00012uJN37C19
1100	15	9	744	50	3.7	5.6	22	42.5	28	37	37.5	23	69	P1100D00015uJN37C19
1100	18	11	893	50	4.5	4.7	22	42.5	28	43	37.5	23	79	P1100D00018uJN3**19
1100	22	13	1092	50	5.5	3.8	22	42.5	30	45	37.5	25	85	P1100D00022uJN37419
1100	27	11	1340	50	6.7	3.1	22	42.5	32.5	50	37.5	27.5	100	P1100D00027uJN37519
1100	33	13	1128	34	5.6	5.4	25	57.5	30	45	52.5	25	109	P1100D00033uJN37419
1100	39	16	1333	34	6.7	4.5	25	57.5	35	50	52.5	30	144	P1100D00039uJN37519
1100	47	19	1607	34	8.0	3.8	25	57	38	54	52	33	164	P1100D00047uJN3**19
1100	56	23	1915	34	9.6	3.2	25	57.5	42.5	56	52.5	37.5	190	P1100D00056uJN37119
1100	68	3	2325	34	11.6	2.6	28	57.5	50	53	52.5	45	206	P1100D00068uJN3**19

注：1、以上参数仅作参考，以实际规格书为准；

1、The above parameters for reference only, see the specification for details.