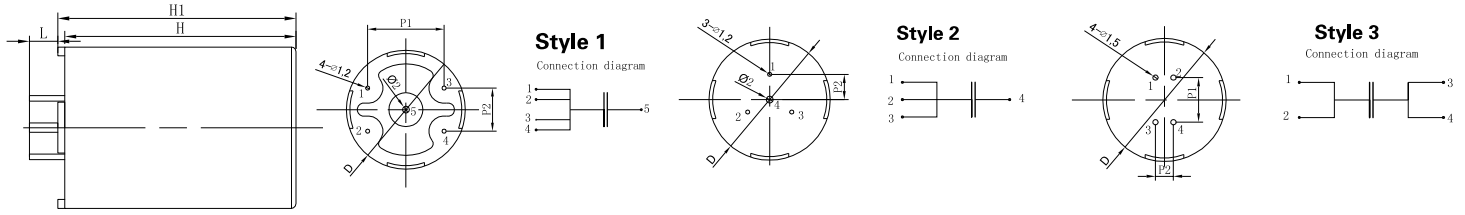




PCB用DC-Link电容器 DC-Link Capacitor for PCB

■ 外形图 Outline Drawing



■ 特点

- 塑料外壳，干式封装
- 等效串联电阻小，能承受较大的纹波电流
- 自感小
- 寿命长

■ 应用场合

- 用于DC-Link电路替代电解电容
- 用于中小功率太阳能逆变器
- 用于焊接设备，中央空调，商用空调变频器，电梯设备，工业电机驱动器

■ Features

- Plastic case, dry construction
- Low ESR, high ripple current ability
- Low L_s
- Long life

■ Applications

- Used to replace electrolytic capacitor in DC-Link circuits
- Used in small and medium power solar inverter
- Used in welding instruments, central air-conditioning inverter, commercial air conditioning inverter, elevator driver, industrial motor driver

■ 技术要求 Specifications

引用标准 Reference Standard	GB/T 17702 (IEC 61071)
气候类别 Climatic Category	40/85/56
工作温度范围 Operating Temperature Range	-40°C ~ 85°C ($\Theta_{hs} \leq 85^\circ\text{C}$)
贮存温度范围 Storage Temperature Range	-40°C ~ 85°C
电压范围 Voltage Range	500Vdc ~ 1 500Vdc
容量范围 Capacitance Range	4.7 μF ~ 260 μF
电容量允许偏差 Capacitance Tolerance	$\pm 5\%$ (J); $\pm 10\%$ (K)
耐电压 (两极之间) Test Voltage Between Terminals	1.5 U_N (10s, 20°C $\pm 5^\circ\text{C}$)
耐电压 (极壳之间) Test Voltage Between Terminals And Case	$U_N < 1\ 500\text{Vdc}$, 3 000Vac(10s, 50Hz, 20°C $\pm 5^\circ\text{C}$) $U_N \geq 1\ 500\text{Vdc}$, ($\sqrt{2} U_N + 1\ 000$)Vac(10s, 50Hz, 20°C $\pm 5^\circ\text{C}$)
介质损耗角正切 $\text{tg } \delta_d$	0.0002
$IR \times C_N$	$\geq 5\ 000\text{s}$ (20°C ,500Vdc,1min)
过电压 Over Voltage	1.1 U_N (30% of on-load-dur.)
	1.15 U_N (30min/day)
	1.2 U_N (5min/day)
	1.3 U_N (1min/day)
	1.5 U_N (30ms every time, 1 000 times during the life of the capacitor)
最高使用海拔 Max. Altitude	2 000m
安装 Installation	任意方向 Any Position
预期寿命 Expected lifetime	100 000hrs @ U_N , $\Theta_{hs}=70^\circ\text{C}$
失效率 Failure rate	50FIT

DC-Link Capacitor for PCB

尺寸 Dimensions(mm)

U _N (Vdc)	C _N (μF)	ESR @1kHz (mΩ)	L _s (nH)	R _{th} (K/W)	Ĉ (A)	I _{max} (A)			Dimension		
						40°C	50°C	60°C	ΦD	H	H1
500	35	4.6	40	19.0	1 050	20	17	13	35	50.5	52
	44	4.5	40	18.0	1 100	22	19	16	35	-	57
	55	5.3	45	15.5	1 100	22	19	16	35	-	67
	85	2.7	35	10.9	2 125	34	29	23	50	55.5	57
	100	3	45	10.0	2 000	34	29	22	50	61.5	63
	200	3.6	50	7.4	2 000	35	31	24	50	93.5	95
	260	4.7	65	6.1	1 300	35	30	23	50	118.5	120
600	30	4.6	40	19.0	900	20	17	13	35	50.5	52
	38	4.5	40	18.0	950	22	19	16	35	-	57
	50	5.0	45	15.5	1 000	23	20	16	35	-	67
	80	3.2	45	10.0	1 600	33	28	22	50	61.5	63
700	28	6.0	40	18.0	700	19	17	14	35	-	57
	36	6.8	45	15.5	720	19	17	14	35	-	67
	58	2.7	35	10.9	1 450	34	29	23	50	55.5	57
	150	3.1	50	7.4	1 400	35	35	30	50	-	95
	190	4.6	60	6.1	950	35	30	23	50	118.5	120
900	14	6.7	40	19.0	420	17	14	11	35	50.5	52
	35	4.7	45	10.0	875	27	23	18	50	61.5	63
	36	3.4	35	10.9	900	31	26	20	50	55.5	57
	45	2.8	35	10.9	1 125	34	29	22	50	55.5	57
	48	2.7	35	10.9	960	34	29	23	50	55.5	57
	110	3.9	50	7.4	1 100	35	29	23	50	93.5	95
	150	4.9	60	6.1	300	34	29	22	50	118.5	120
1000	10	7.3	40	19.0	300	16	13	10	35	50.5	52
	25	5.6	45	10.0	500	25	21	16	50	61.5	63
1100	30	3.1	35	10.9	750	32	27	21	50	55.5	57
	73	4.3	50	7.4	730	33	28	22	50	93.5	95
	100	5.6	60	6.1	500	32	27	21	50	118.5	120
1200	7.5	7.4	40	19.0	225	16	13	10	35	50.5	52
	20	5.4	45	10.0	400	25	22	17	50	61.5	63
1300	12	5.5	40	10.9	300	24	20	16	50	55.5	57
	17	4	35	10.9	425	28	24	19	50	55.5	57
	41	5.8	50	7.4	410	29	24	19	50	93.5	95
	50	7.8	60	6.1	250	27	23	18	50	118.5	120
1500	4.7	8.2	40	19.0	141	15	13	10	35	50.5	52
	13	5.9	45	10.0	260	24	21	16	50	61.5	63