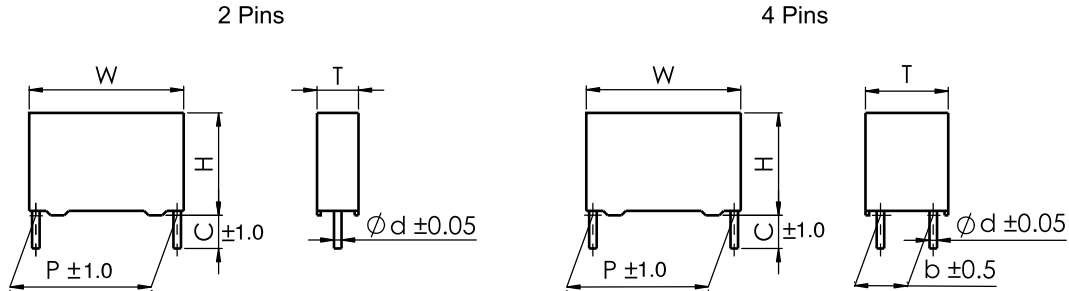




PCB用DC-Link电容器 DC-Link Capacitor for PCB

■ 外形图 Outline Drawing



■ 特点

- 金属化聚丙烯膜结构
- 良好的电气性能
- 塑料外壳封装(UL94 V-0), 树脂填充
- 高性能直流滤波应用场合
(如: 变频器、工业和高端电源、太阳能逆变器等)

■ Features

- Metallized polypropylene film structure
- Excellent electric property
- Plastic case (UL94 V-0), filled with resin
- High performance DC filtering applications
(i.e. Frequency converters, Industrial and high-end power supplies and Solar inverters)

■ 技术要求 Specifications

引用标准	GB/T 17702 (IEC 61071)
气候类别 Climatic Category	40/105/56
工作温度 (外壳) Operating temperature (case)	-40°C ~105°C (+85°C to +105°C : decreasing factor 1.5% per °C for $U_{N,85°C}$)
额定电压 $U_{N,85°C}$	500Vdc,600Vdc,800Vdc,900Vdc,1 000Vdc,1 100Vdc,1 200Vdc
容量偏差 Capacitance Tolerance	J (± 5%), K (± 10%)
耐电压 Voltage Proof	1.5 U_N (10s)
绝缘电阻 Insulation Resistance (IR × C_N)	≥ 10 000s (20°C ,100Vdc,1min)
自感 (L_s) Self Inductance(L_s)	< 1nH per mm of lead spacing
最大峰值电流 \hat{I} (A) Maximum peak current \hat{I} (A)	$\hat{I} = C \cdot dV/dt$
预期寿命 Expected lifetime	100 000hrs @ U_N , $\Theta_{hs}=70°C$

DC-Link Capacitor for PCB

尺寸 Dimensions(mm)

Vdc	Cap	Dimensions					Irms	Peak	ESR	ESL	Thermal	dv/dt	Lead	Part Number
	Value	W	H	T	P	P1	10KHz	Current	10KHz		Res		Wire	
	uF	mm	mm	mm	mm	mm	A @70°C	A	mΩ		nH		°C/W	
450	5	32	20	11	27.5	\	5	250	15.0	25	47.1	50	0.8	
450	10	32	28	14	27.5	\	7.5	500	8.5	25	23.7	50	0.8	
450	18	32	37	22	27.5	\	11	900	6.0	28	13.8	50	0.8	
450	20	32	37	22	27.5	\	12.5	1000	5.0	28	12.8	50	0.8	
450	22	32	37	22	27.5	\	12.5	1100	5.0	28	12.8	50	0.8	
450	30	42.5	40	20	37.5	10.2	12	900	6.0	30	11.6	30	1.2	
450	40	42.5	37	28	37.5	10.2	14	1200	5.5	30	9.3	30	1.2	
450	50	42.5	45	30	37.5	20.3	15	1500	4.0	30	11.1	30	1.2	
450	60	42.5	45	30	37.5	20.3	16.5	1800	4.0	30	9.2	30	1.2	
450	80	57.5	45	30	52.5	20.3	16	1200	4.0	35	7.4	15	1.2	
450	100	57.5	50	35	52.5	20.3	18	1500	3.8	35	6.2	15	1.2	
550	3	32	20	11	27.5	\	4	150	28.0	25	22.3	50	0.8	
550	5	32	22	13	27.5	\	6	250	14.0	25	16.8	50	0.8	
550	8	32	28	14	27.5	\	8.5	400	12.5	25	12.6	50	0.8	
550	10	32	33	18	27.5	\	10	500	8.0	25	12.5	50	0.8	
550	15	32	37	22	27.5	\	13	750	6.5	28	9.1	50	0.8	
550	15	32	37	22	27.5	10.2	15	750	5.5	28	8.1	50	1.2	
550	20	42.5	40	20	37.5	10.2	12.5	600	6.5	30	9.8	30	1.2	
550	22	42.5	40	20	37.5	10.2	13.5	660	6.5	30	8.4	30	1.2	
550	25	42.5	40	20	37.5	10.2	14.5	750	6.5	30	7.3	30	1.2	
550	30	42.5	44	24	37.5	10.2	16	900	6.0	30	6.5	30	1.2	
550	35	42.5	45	30	37.5	20.3	18	1050	6.0	30	5.1	30	1.2	
550	40	42.5	45	30	37.5	20.3	18	1200	5.5	30	5.1	30	1.2	
550	50	42.5	50	35	37.5	20.3	20	1500	5.0	30	5.0	30	1.2	
550	60	57.5	45	30	37.5	20.3	18	900	4.8	35	6.2	15	1.2	
550	75	57.5	50	35	52.5	20.3	20	1125	5.0	35	5.0	15	1.2	
550	100	57.5	55	45	52.5	20.3	24	1500	4.5	35	3.9	15	1.2	
550	110	57.5	53	50	52.5	20.3	26	1650	4.0	35	3.7	15	1.2	
600	3	32	20	11	27.5	\	4	150	28.0	25	22.3	50	0.8	
600	4	32	20	11	27.5	\	5	200	26.0	25	14.3	50	0.8	
600	5	32	28	14	27.5	\	6	250	14.5	25	26.5	50	0.8	
600	8	32	28	14	27.5	\	7.5	400	12.0	25	17.8	50	0.8	
600	10	32	33	18	27.5	\	8.5	500	7.5	25	19.8	50	0.8	
600	12	32	33	18	27.5	\	9.5	600	7.5	25	15.8	50	0.8	
600	15	32	37	22	27.5	\	10.5	750	7.5	28	12.1	50	0.8	
600	20	42.5	40	20	37.5	10.2	11	600	6.0	30	13.8	30	1.2	
600	30	42.5	37	28	37.5	10.2	13	900	5.5	30	10.8	30	1.2	
600	40	42.5	45	30	37.5	20.3	18	1200	4.0	30	7.7	30	1.2	
600	50	57.5	50	35	52.5	20.3	14	750	6.5	35	7.8	15	1.2	
600	60	57.5	50	35	52.5	20.3	16	900	5.0	35	7.8	15	1.2	
600	70	57.5	50	35	52.5	20.3	18	1050	5.0	35	6.2	15	1.2	
600	80	57.5	55	45	52.5	20.3	20	1200	4.0	35	6.3	15	1.2	
600	90	57.5	55	45	52.5	20.3	24	1350	4.0	35	4.3	15	1.2	
600	100	57.5	53	50	52.5	20.3	26	1500	4.0	35	3.7	15	1.2	
600	110	57.5	53	50	52.5	20.3	28	1650	3.5	35	3.6	15	1.2	
700	3	32	20	11	27.5	\	4.5	150	28.0	25	47.0	50	0.8	
700	3.3	32	28	14	27.5	\	5.5	165	26.0	25	31.5	50	0.8	
700	5	32	28	14	27.5	\	6	250	14.0	25	26.5	50	0.8	
700	8	32	33	18	27.5	\	9	400	10.0	25	12.3	50	0.8	
700	10	32	33	18	27.5	\	10	500	7.0	25	14.3	50	0.8	



DC-Link Capacitor for PCB

尺寸 Dimensions(mm)

Vdc	Cap	Dimensions					Irms	Peak	ESR	ESL	Thermal	dv/dt	Lead	Part Number	
	Value	W	H	T	P	P1	10KHz	Current	10KHz		Res		V/us		Wire
	uF	mm	mm	mm	mm	mm	A @70°C	A	mΩ		nH		°C/W		mm
700	10	32	37	22	27.5	\	12	500	6.5	28	10.7	50	0.8		
700	10	42.5	18	24	37.5	\	11.5	300	7.5	30	10.1	30	1.0		
700	15	42.5	33.5	22	37.5	\	9	450	9.0	30	13.7	30	1.0		
700	15	42.5	33.5	22	37.5	10.2	10	450	8.0	30	12.5	30	1.2		
700	15	42.5	40	20	37.5	10.2	10	450	8.0	30	12.5	30	1.2		
700	20	42.5	37	28	37.5	10.2	12	600	7.5	30	11.6	30	1.2		
700	22	42.5	44	24	37.5	10.2	14	660	6.5	30	9.3	30	1.2		
700	25	42.5	44	24	37.5	10.2	16	750	6.0	30	7.8	30	1.2		
700	30	42.5	45	30	37.5	20.3	16	900	5.8	30	8.7	30	1.2		
700	35	42.5	50	35	37.5	20.3	20	1050	5.5	30	6.3	30	1.2		
700	40	57.5	45	30	52.5	20.3	14	600	5.0	35	8.5	15	1.2		
700	45	57.5	45	30	52.5	20.3	15.5	675	5.0	35	7.6	15	1.2		
700	50	57.5	50	35	52.5	20.3	15	750	4.8	35	8.1	15	1.2		
700	55	57.5	50	35	52.5	20.3	16	825	4.5	35	8.7	15	1.2		
700	60	57.5	50	35	52.5	20.3	18	900	4.0	35	7.7	15	1.2		
700	65	57.5	55	45	52.5	20.3	20	975	4.0	35	6.3	15	1.2		
700	70	57.5	55	45	52.5	20.3	20	1050	3.8	35	6.3	15	1.2		
700	75	57.5	55	45	52.5	20.3	20	1125	3.8	35	6.3	15	1.2		
700	80	57.5	53	50	52.5	20.3	22	1200	3.5	35	5.9	15	1.2		
700	90	57.5	53	50	52.5	20.3	24	1350	3.5	35	5.0	15	1.2		
800	3.3	32	28	14	27.5	\	4	165	25.0	25	32.1	50	0.8		
800	5	32	28	14	27.5	\	6	250	12.0	25	26.5	50	0.8		
800	9	32	33	18	27.5	\	10	198	10.5	25	9.1	22	0.8		
800	10	32	37	22	27.5	\	11.5	220	9.5	28	8.0	22	0.8		
800	15	42.5	40	20	37.5	10.2	10	450	8.0	30	12.5	30	1.2		
800	20	42.5	37	28	37.5	10.2	12	600	7.0	30	11.6	30	1.2		
800	22	42.5	44	24	37.5	10.2	14	660	6.0	30	9.3	30	1.2		
800	25	42.5	45	30	37.5	20.3	14	425	5.5	30	7.5	17	1.2		
800	30	42.5	45	30	37.5	20.3	16	900	4.5	30	8.7	30	1.2		
800	35	57.5	45	30	52.5	20.3	14.2	420	6.5	35	7.6	12	1.2		
800	40	57.5	45	30	52.5	20.3	14	600	6.0	35	8.5	15	1.2		
800	45	57.5	45	30	52.5	20.3	15.5	675	5.5	35	7.6	15	1.2		
800	47	57.5	50	35	52.5	20.3	17.5	564	5.0	35	6.5	12	1.2		
800	50	57.5	50	35	52.5	20.3	16	600	5.0	35	7.8	12	1.2		
800	55	57.5	50	35	52.5	20.3	17	660	4.6	35	6.9	12	1.2		
800	65	57.5	60	35	52.5	20.3	19	780	4.0	35	7.3	12	1.2		
800	65	57.5	55	45	52.5	20.3	20	975	4.0	35	6.3	15	1.2		
800	70	57.5	55	45	52.5	20.3	20	1050	3.8	35	6.3	15	1.2		
800	75	57.5	55	45	52.5	20.3	20	1125	3.8	35	6.3	15	1.2		
800	80	57.5	53	50	52.5	20.3	22	1200	3.5	35	5.9	15	1.2		
800	90	57.5	53	50	52.5	20.3	24	1350	3.5	35	5.0	15	1.2		
900	2	32	20	11	27.5	\	3	120	25.0	25	44.4	60	0.8		
900	3	32	22	13	27.5	\	5	180	18.5	25	21.6	60	0.8		
900	3.3	32	24.5	15	27.5	\	5	198	18.5	25	21.6	60	0.8		
900	5	32	28	18	27.5	\	7	300	12.5	25	16.3	60	0.8		
900	6	32	33	18	27.5	\	8	360	11.0	25	14.2	60	0.8		
900	8	32	37	22	27.5	\	10.5	480	10.0	28	9.1	60	0.8		
900	10	32	37	22	27.5	\	12	600	10.0	28	6.9	60	0.8		
900	10	42.5	40	20	37.5	\	8.5	350	12.0	30	11.5	35	1.0		
900	10	42.5	40	20	37.5	10.2	9.5	350	11.5	30	9.6	35	1.2		

DC-Link Capacitor for PCB

尺寸 Dimensions(mm)

Vdc	Cap	Dimensions					I _{rms} 10KHz A @70°C	Peak Current A	ESR 10KHz mΩ	ESL nH	Thermal	dv/dt V/us	Lead	Part Number
	Value	W	H	T	P	P1					Res		Wire	
	uF	mm	mm	mm	mm	mm					°C/W		mm	
900	15	42.5	44	24	37.5	\	10.5	525	8.0	30	11.3	35	1.0	
900	15	42.5	44	24	37.5	10.2	12	525	7.5	30	9.3	35	1.2	
900	18	42.5	44	24	37.5	\	10.5	630	8.0	30	11.3	35	1.0	
900	18	42.5	44	24	37.5	10.2	12	630	7.5	30	9.3	35	1.2	
900	20	42.5	45	30	37.5	\	14	700	6.0	30	8.5	35	1.0	
900	20	42.5	45	30	37.5	20.3	15	700	5.5	30	8.1	35	1.2	
900	25	42.5	45	30	37.5	20.3	17	875	5.5	30	6.3	35	1.2	
900	30	42.5	50	35	37.5	20.3	19	1050	5.0	30	5.5	35	1.2	
900	30	57.5	45	30	52.5	20.3	15	450	5.5	35	8.1	15	1.2	
900	35	57.5	50	35	52.5	20.3	15.5	525	5.5	35	7.6	15	1.2	
900	40	57.5	50	35	52.5	20.3	16	600	6.5	35	6.0	15	1.2	
900	50	57.5	50	35	52.5	20.3	18	750	3.6	35	8.6	15	1.2	
900	55	57.5	60	35	52.5	20.3	19	825	3.5	35	7.9	15	1.2	
900	55	57.5	55	45	52.5	20.3	20	825	3.4	35	7.4	15	1.2	
900	60	57.5	55	45	52.5	20.3	20	900	3.4	35	7.4	15	1.2	
900	70	57.5	53	50	52.5	20.3	20	1050	3.2	35	7.8	15	1.2	
1000	2	32	22	13	27.5	\	3.5	120	30.0	25	27.2	60	0.8	
1000	3	32	24.5	15	27.5	\	5	180	25.0	25	16.0	60	0.8	
1000	5	32	33	18	27.5	\	8	300	14.0	25	11.2	60	0.8	
1000	8	32	37	22	27.5	\	10	480	12.0	28	8.3	60	0.8	
1000	10	42.5	40	20	37.5	\	8.5	350	12.0	30	11.5	35	1.0	
1000	10	42.5	40	20	37.5	10.2	9.5	350	11.5	30	9.6	35	1.2	
1000	12	42.5	44	24	37.5	10.2	10.5	420	9.0	30	10.1	35	1.2	
1000	15	42.5	44	24	37.5	\	10.5	525	8.0	30	11.3	35	1.0	
1000	15	42.5	44	24	37.5	10.2	12	525	7.5	30	9.3	35	1.2	
1000	15	42.5	45	30	37.5	20.3	14	525	7.5	30	6.8	35	1.2	
1000	20	42.5	45	30	37.5	20.3	15	700	6.5	30	6.8	35	1.2	
1000	25	42.5	50	35	37.5	20.3	18	875	5.5	30	5.6	35	1.2	
1000	30	57.5	45	30	52.5	20.3	15	450	5.5	35	8.1	15	1.2	
1000	35	57.5	50	35	52.5	20.3	16	525	5.5	35	7.1	15	1.2	
1000	40	57.5	50	35	52.5	20.3	16	600	5.0	35	7.8	15	1.2	
1000	50	57.5	55	45	52.5	20.3	19	750	4.5	35	6.2	15	1.2	
1000	60	57.5	53	50	52.5	20.3	22	900	4.0	35	5.2	15	1.2	
1100	1	32	20	11	27.5	\	2.5	70	45.0	25	35.6	70	0.8	
1100	1.5	32	22	13	27.5	\	3.5	105	30.0	25	27.2	70	0.8	
1100	2	32	24.5	15	27.5	\	4	140	25.0	25	25.0	70	0.8	
1100	2.2	32	28	14	27.5	\	5	154	16.5	25	24.2	70	0.8	
1100	3.3	32	28	18	27.5	\	6.5	231	11.5	25	20.6	70	0.8	
1100	4	32	33	18	27.5	\	8	280	10.5	25	14.9	70	0.8	
1100	5	32	37	22	27.5	\	8.5	350	9.5	28	14.6	70	0.8	
1100	6	42.5	33.5	22	37.5	10.2	12	272	13.5	30	5.1	40	1.2	
1100	8	42.5	40	20	37.5	\	10.5	320	14.0	30	6.5	40	1.0	
1100	8	42.5	40	20	37.5	10.2	12.5	320	12.5	30	5.1	40	1.2	
1100	10	42.5	44	24	37.5	\	14	400	9.0	30	5.7	40	1.0	
1100	10	42.5	44	24	37.5	10.2	15	400	8.5	30	5.2	40	1.2	
1100	12	42.5	45	30	37.5	20.3	15.5	480	7.5	30	5.5	40	1.2	
1100	18	42.5	50	35	37.5	20.3	15.5	720	7.5	30	5.5	40	1.2	
1100	20	57.5	45	30	52.5	20.3	12	400	8.5	35	8.2	20	1.2	
1100	30	57.5	50	35	52.5	20.3	15	600	5.0	35	8.9	20	1.2	
1100	40	57.5	55	45	52.5	20.3	17	800	5.5	35	6.3	20	1.2	



DC-Link Capacitor for PCB

尺寸 Dimensions(mm)

Vdc	Cap	Dimensions					Irms	Peak	ESR	ESL	Thermal	dv/dt	Lead	Part Number
	Value	W	H	T	P	P1	10KHz	Current	10KHz		Res		Wire	
	uF	mm	mm	mm	mm	mm	A @70°C	A	mΩ	nH	°C/W	V/us	mm	
1100	50	57.5	53	50	52.5	20.3	20	1000	4.5	35	5.6	20	1.2	
1200	1	32	20	11	27.5	\	4.5	80	32.5	25	15.2	80	0.8	
1200	2	32	24.5	15	27.5	\	5	160	32.5	25	12.3	80	0.8	
1200	2.2	32	28	18	27.5	\	5.5	176	17.0	25	19.4	80	0.8	
1200	3	32	28	18	27.5	\	7	240	16.0	25	12.8	80	0.8	
1200	3.3	32	33	18	27.5	\	8	264	13.5	25	11.6	80	0.8	
1200	5	32	37	22	27.5	\	10	400	12.0	28	8.3	80	0.8	
1200	5	42.5	33.5	22	37.5	\	7.5	225	15.5	30	11.5	45	1.0	
1200	6	42.5	40	20	37.5	\	7.5	270	15.5	30	11.5	45	1.0	
1200	8	42.5	44	24	37.5	10.2	9	360	12.5	30	9.9	45	1.2	
1200	10	42.5	44	24	37.5	10.2	10	450	10.5	30	9.5	45	1.2	
1200	10	42.5	45	30	37.5	20.3	12	450	8.0	30	8.7	45	1.2	
1200	15	42.5	50	35	37.5	20.3	15	675	6.5	30	6.8	45	1.2	
1200	20	57.5	45	30	52.5	20.3	13	500	8.5	35	9.7	25	1.2	
1200	25	57.5	50	35	52.5	20.3	15	625	6.5	35	9.1	25	1.2	
1200	30	57.5	55	45	52.5	20.3	17	750	5.5	35	8.1	25	1.2	
1200	35	57.5	55	45	52.5	20.3	18	875	5.0	35	6.9	25	1.2	
1200	40	57.5	53	50	52.5	20.3	20	1000	4.5	35	5.6	25	1.2	