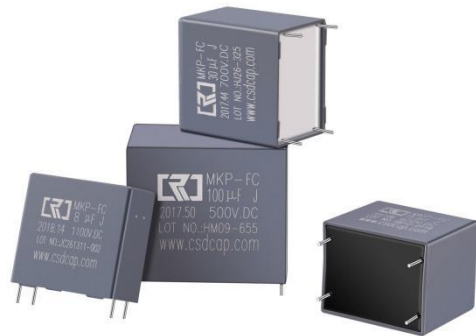




# MKP-FC (DC-LINK)



- PCB 焊接
- PCB 焊接，适合批量化生产
- 低 ESR, 低 ESL
- 优异的频率特性
- 可靠性高，可替代电解电容

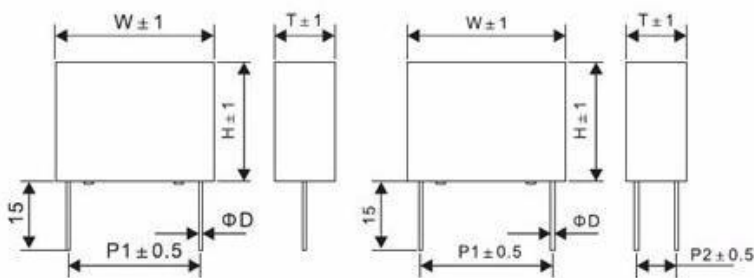


DC-LINK Series, Radial Lead, 105°C High C/V  
 Low ESR & high ripple current capability  
 High reliability performance, replacement of electric Cap

### 性能参数 Technical data

项目 Item	性能 Performance Characteristics	
使用温度范围 Operating Temperature range	-40+105°C	
贮存温度范围 Storage Temperature range	-40+105°C	
额定电压 Rated Voltage Range	400~1100V. DC	
额定容量 Rated Capacity	8~120 μF	
静电容量范围 Capacitance Tolerance	±5% (J) / ±10% (K)	
介质损耗 (tan δ) Dissipation Factor (tan δ)	≤0.0025 at 20°C, 1K Hz	
耐电压 Voltage Proof	极间Vt-t	1.5Un (10S, 20°C ±5°C)
	极壳Vt-c	---
杂散电感 ESL	≤30nH	
绝缘电阻 IR	≥5000s at 100VDC/60S	
耐久性试验 Endurance	测试条件: 温度 85°C ±3°C; 施加 1.3 倍额定电压Un; 试验时间 1000h.	
	静电容量变化 Capacitance change	ΔC/C0   ≤10%
预期寿命 Life	100000h (可参考寿命曲线图)	

### 尺寸图 Dimension Unit: mm

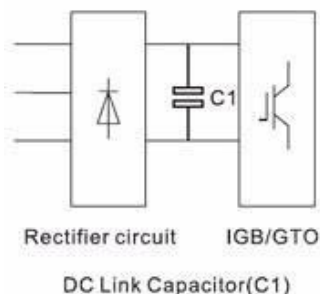


W(mm)	P1(mm)	P2(mm)
32	27.5	
42.5	37.5	20.3
57.5	52.5	20.3



# MKP-FC (DC-LINK)

## ■ 典型线路图 Typical Circuit



Over Voltage	1.1Un (30% of on-load-dur.)
	1.15Un (30 min/ day)
	1.2Un (5 min/ day)
	1.3Un (1 min/ day)
	1.5Un(100ms every time, 1000times during the lifetime)

Un=85°C 500VDC												
Rated Capacitance (μF)	mm			P1	P2	d	Dv/dt	tanθ×10-4		ESR (mΩ)	Imax (A)	品番 Part Number
	W	H	T					1KHZ	10KHZ			
5	32	20	11	27.5	-	0.8	65	10	100	8.5	5.0	
8	32	28	14	27.5	-	0.8	65	10	100	8.5	6.0	
10	32	28	14	27.5	-	0.8	65	10	100	7.5	6.5	
10	32	28	18	27.5	-	0.8	65	10	100	7.5	7.0	
22	32	37	22	27.5	-	0.8	65	10	100	5.0	8.0	
22	32	37	22	27.5	12.7	0.8	65	15	150	5.0	10.0	
30	42	40	20	37.5	10.2	1.0	30	15	150	8.0	12.5	
35	42.5	37	28	37.5	10.2	1.0	30	15	150	8.0	13.5	
40	42.5	37	28	37.5	10.2	1.0	30	15	150	5.0	14.5	
50	42	45	30	37.5	20.3	1.2	30	15	150	4.0	16.0	
60	42	45	30	37.5	20.3	1.2	30	15	150	3.0	16.5	
75	57.5	45	30	52.5	20.3	1.2	15	35	350	5.5	16.0	
80	57.5	45	30	52.5	20.3	1.2	15	35	350	5.0	16.5	
100	57.5	50	35	52.5	20.3	1.2	15	35	350	4.0	18.0	
110	57.5	50	35	52.5	20.3	1.2	15	35	350	4.0	19.0	
Un=85°C 600VDC												
3	32	20	11	27.5	-	0.8	65	11	100	31.8	4.0	
5	32	22	13	27.5	-	0.8	65	11	100	19.1	7.0	
6	31	25	14	27.5	-	0.8	65	11	100	18.6	7.1	
7	31	25	14	27.5	-	0.8	65	11	100	15.9	8.3	
8	32	28	18	27.5	-	0.8	65	11	100	13.9	9.0	
10	32	30	15	27.5	-	0.8	65	11	100	11.1	9.0	
12	32	33	18	27.5	-	0.8	65	11	100	10.8	9.0	
15	32	37	22	27.5	-	1.0	65	11	100	9.0	9.0	
15	32	37	22	27.5	12.7	1.0	65	11	100	7.4	16.5	
18	32	37	22	27.5	-	1.0	65	11	100	8.0	9.0	
18	32	37	22	27.5	12.7	1.0	65	11	100	6.2	17.0	



# MKP-FC (DC-LINK)

Un=85°C 600VDC												
Rated Capacitance (μF)	mm			P1	P2	d	Dv/dt	tanθ×10 <sup>-4</sup>		ESR (mΩ)	Imax (A)	Part Number
	W	H	T					1KHZ	10KHZ			
	20	42	40					30	37.5			
25	42	40	20	37.5	10.2	1.0	30	20	175	7.8	15.4	
30	42	44	24	37.5	10.2	1.2	30	20	175	6.5	18.5	
35	42	45	30	37.5	20.3	1.2	30	20	175	6.0	20.1	
40	42	45	30	37.5	20.3	1.2	30	20	175	5.2	23.0	
45	42	50	35	37.5	20.3	1.2	30	20	175	4.6	25.8	
50	42	50	35	37.5	20.3	1.2	30	20	175	4.2	28.7	
50	57.5	45	30	52.5	20.3	1.2	15	36	350	7.8	20	
60	42	55	40	37.5	20.3	1.2	30	20	175	3.5	25.8	
60	57.5	45	30	52.5	20.3	1.2	15	36	350	6.5	18.5	
70	57.5	50	35	52.5	20.3	1.2	15	36	350	5.6	21.5	
80	57.5	50	35	52.5	20.3	1.2	15	36	350	4.9	24.6	
90	57.5	54	38	52.5	20.3	1.2	15	36	350	4.6	25.8	
100	57.5	54	38	52.5	20.3	1.2	15	36	350	4.2	25.8	
110	57.5	56	42.5	52.5	20.3	1.2	15	36	350	3.8	25.8	
Un=85°C 800VDC												
Rated Capacitance	mm			P1	P2	d	Dv/dt	tanθ×10 <sup>-4</sup>		ESR (mΩ)	Imax (A)	Part Number
	W	H	T					1KHZ	10KHZ			
	3	32	20					11	27.5			
5	31	25	14	27.5	-	0.8	65	10	95	18.2	7.3	
5	31	28	18	27.5	-	0.8	65	7	60	12.5	8.1	
7	32	28	18	27.5	-	0.8	65	10	95	13	10	
10	32	37	22	27.5	-	0.8	65	10	95	11	10	
10	32	37	22	27.5	12.7	0.8	65	10	95	9.1	14.5	
14	32	37	22	27.5	-	0.8	65	10	95	8.2	10	
14	32	37	22	27.5	12.7	0.8	65	10	95	7.6	16.5	
15	42	40	20	37.5	10.2	1.0	30	18	160	11.9	10.1	
20	42	40	20	37.5	10.2	1.0	30	18	160	8.9	13.5	
25	42	44	24	37.5	10.2	1.0	30	18	160	7.1	16.8	
30	42	45	30	37.5	12.7	1.2	30	18	160	5.9	20	
30	42	45	30	37.5	20.3	1.2	30	18	160	5.9	20	
40	42	50	35	37.5	20.3	1.2	30	18	160	4.8	24	
40	57.5	45	30	52.5	20.3	1.2	15	33	320	8.9	13.5	
45	42	55	40	37.5	20.3	1.2	30	18	160	4.2	24	
45	57.5	45	30	52.5	20.3	1.2	15	33	320	7.9	15.1	
50	42	55	40	37.5	20.3	1.2	30	18	160	3.8	25	
50	57.5	50	35	52.5	20.3	1.2	15	33	320	7.1	16.8	
60	57.5	50	30	52.5	20.3	1.2	15	33	320	5.9	20.2	
70	57.5	56	42.5	52.5	20.3	1.2	15	33	320	5.1	23.6	
80	57.5	56	42.5	52.5	20.3	1.2	15	33	320	4.5	25.2	
90	57.5	56	42.5	52.5	20.3	1.2	15	33	320	4.2	25.2	



# MKP-FC (DC-LINK)

Un=85°C 900VDC												
Rated Capacitance (μF)	mm			P1	P2	d	Dv/dt	tanθ×10 <sup>-4</sup>		ESR (mΩ)	Imax (A)	Part Number
	W	H	T					1KHZ	10KHZ			
2	32	20	11	27.5	-	0.8	70	9	90	43	3.1	
3	32	22	13	27.5	-	0.8	70	9	90	28.7	4.6	
4	31	25	14	27.5	-	0.8	70	9	90	21.5	6.1	
5	32	28	18	27.5	-	0.8	70	9	90	17.2	7.7	
8	32	37	22	27.5	-	1.0	70	9	90	11.5	10	
8	32	37	22	27.5	12.7	0.8	70	9	90	10.7	12.3	
10	32	37	22	27.5	-	1.0	70	9	90	12	10	
10	32	37	22	27.5	12.7	0.8	70	9	90	8.6	15.4	
15	42	44	24	37.5	10.2	1.0	35	17	150	11.1	10.8	
20	42	44	24	37.5	10.2	1.0	35	17	150	8.4	14.4	
25	42	45	30	37.5	10.2	1.0	35	17	150	6.7	17.9	
30	42	50	35	37.5	20.3	1.2	35	17	150	5.6	21.5	
35	42	50	35	37.5	20.3	1.2	35	17	150	5.1	23.4	
40	42	55	40	37.5	20.3	1.2	35	17	150	4.5	25	
45	42	55	40	37.5	20.3	1.2	35	17	150	4	25	
25	57.5	45	30	52.5	20.3	1.2	15	31	300	13.4	17.9	
30	57.5	45	30	52.5	20.3	1.2	15	31	300	11.1	10.8	
35	57.5	45	30	52.5	20.3	1.2	15	31	300	9.6	12.6	
40	57.5	50	35	52.5	20.3	1.2	15	31	300	8.4	14.4	
50	57.5	50	35	52.5	20.3	1.2	15	31	300	6.7	17.9	
55	57.5	50	35	52.5	20.3	1.2	15	31	300	6.1	19.7	
60	57.5	54	38	52.5	20.3	1.2	15	31	300	5.6	21.5	
Un=85°C 1100VDC												
1	32	20	11	27.5	-	0.8	80	8	70	59.4	2.2	
2	32	22	13	27.5	-	0.8	80	8	70	27.9	4.7	
3	32	30	16	27.5	-	0.8	80	8	70	20.4	6.5	
5	32	37	22	27.5	-	0.8	80	8	70	14	9.8	
5	32	37	22	27.5	12.7	0.8	80	8	70	12.3	10.8	
6	32	37	22	27.5	-	1.0	80	8	70	12.3	10.8	
6	32	37	22	27.5	12.7	0.8	80	8	70	10.2	12.9	
7	42	40	20	37.5	10.2	1.0	40	15	130	20.7	5.8	
10	42	44	24	37.5	10.2	1.0	40	15	130	14.5	8.3	
12	42	44	24	37.5	10.2	1.0	40	15	130	12.1	9.9	
15	42	45	30	37.5	10.2	1.0	40	15	130	9.7	12.4	
20	42	50	35	37.5	10.2	1.0	40	15	130	7.2	16.6	
20	57.5	45	30	52.5	20.3	1.2	20	27	260	14.5	14.5	
25	42	55	40	52.5	20.3	1.0	40	15	130	5.8	20.7	
25	57.5	45	30	52.5	20.3	1.2	20	27	260	11.6	10.4	
30	42	55	40	52.5	10.2	1.2	40	15	130	4.8	24.8	
30	57.5	45	30	52.5	20.3	1.2	20	27	260	9.7	12.4	
35	57.5	50	35	52.5	20.3	1.2	20	27	260	8.4	14.3	
40	57.5	50	35	52.5	20.3	1.2	20	27	260	7.8	15.5	
50	57.5	54	38	52.5	20.3	1.2	20	27	260	6.2	19.3	