



MKP-FC (DC-LINK)



PCB 焊接

PCB 焊接，适合批量化生产

低 ESR, 低 ESL

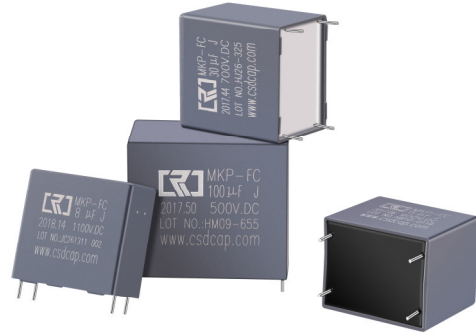
优异的频率特性

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



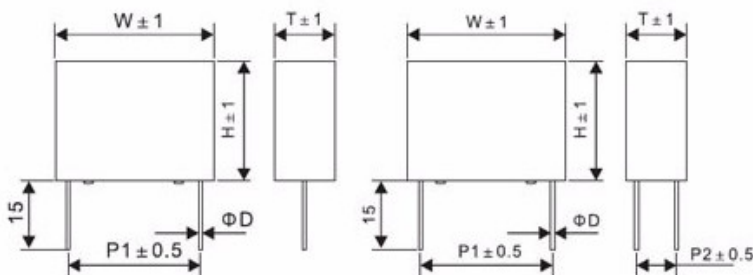
性能参数 Technical data

引用技术标准 GB/T 17702(IEC61071)、AEC-Q200D

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 μ F	
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 V _{tt}	1.5U _n (10S, 20°C ± 5°C)
	极壳 V _{t-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 U _n ; 试验时间 1000h.	
	静电容量变化 Capacitance change	$ \Delta C/C_0 \leq 10\%$
预期寿命 Life	100000h (可参考寿命曲线图)	

尺寸图 Dimension (图片需要更换)

Unit: mm

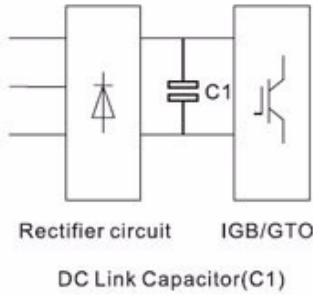


W(mm)	P1(mm)	P2(mm)
42.5	37.5	20.3
57.5	52.5	20.3



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■ 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)

MKP-FC

DC-LINK



■ 产品编码体系 Part Numbering (例 example: 450V 330 μF)

C	F	C	2	H	5	0	5	J	0	7	0	0	3
系列 Series Name	额定电压 Rated Voltage	额定容量 Capacitance	容量偏差 Capacitance Tolerance (±10%)	内部识别码									

■ 寸法表 Standard Products Table

Un=85°C 500VDC												
静電容量範圍 Rated Capacitance (μF)	mm			P1	P2	d	Dv/dt	tanθ×10-4		ESR (mΩ)	Imax (A)	品番 Part Number
	W	T	H					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	



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Un=85°C 600VDC												
静電容量範囲 Rated Capacitance (μ F)	mm			P	P1	d	Dv/dt	tan θ ×10-4		ESR (m Ω)	Imax (A)	品番 Part Number
	W	T	H					1KHZ	10KHZ			
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	
20	42	40	30	37.5	10.2	1.0	30	20	175	9.8	12.3	
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												
静電容量範囲 Rated Capacitance (μ F)	mm			P1	P2	d	Dv/dt	tan θ ×10-4		ESR (m Ω)	Imax (A)	品番 Part Number
	W	T	H					1KHZ	10KHZ			
3	32	20	11	27.5	-	0.8	65	10	95	30.3	4.4	
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	

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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	

Un=85°C 900VDC

静電容量範囲 Rated Capacitance (μ F)	mm			P1	P2	d	Dv/dt	tan θ ×10-4		ESR (m Ω)	Imax (A)	品番 Part Number
	W	T	H					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	



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Un=85℃ 1100VDC												
静電容量範囲 Rated Capacitance (μF)	mm			P1	P2	d	Dv/dt	tanθ×10-4		ESR (mΩ)	Imax (A)	品番 Part Number
	W	T	H					1KHZ	10KHZ			
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	