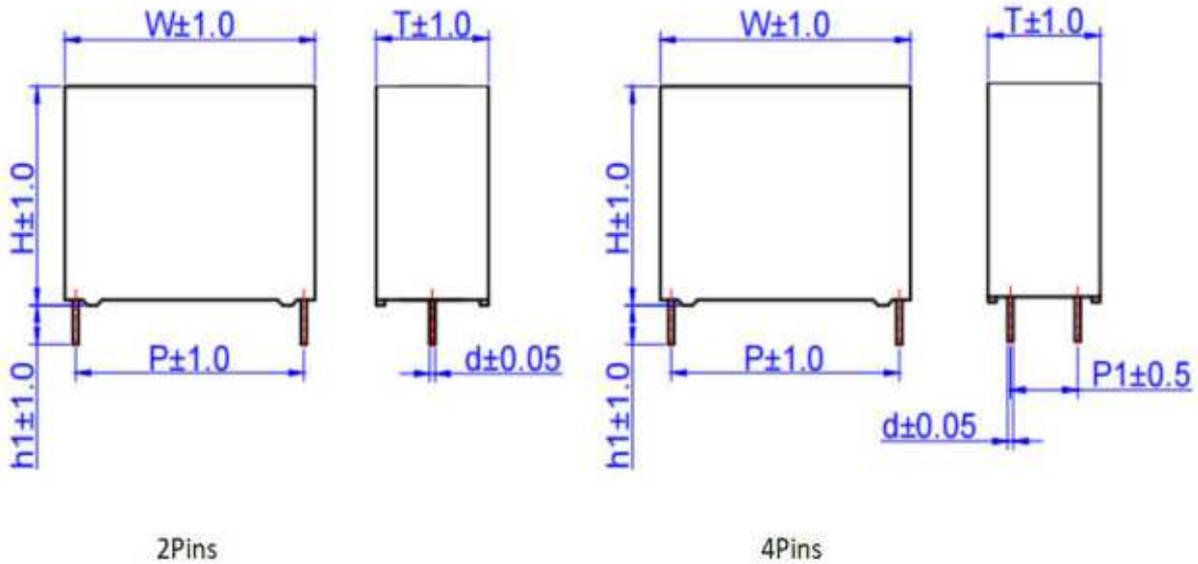


CD19:Series/Type 系列/类型: MKP1 系列

MKP1 系列 PCB 用 DC-Link 电容器 < 60°C/93%RH /1000h / UNDC >

MKP1 Series DC-Link Capacitor for PCB < 60°C/93%RH /1000h / UNDC >

■ 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 (UL94V-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 (UL94V-0), filled with resin
- High performance DC filtering applications (i.e. transducers, industrial and high-end power supplies solar inverters)

■ 安全认证 Safety Approvals

●		TUV (IEC 61071)	400Vdc~2000Vdc、0.1μF~140μF、-40°C ~ +105°C
●	AEC-Q200D-2010	TUV (德国 Rheinland)	AEC-Q200 REV D :2010

■ 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 (外壳) Operating Temperature Range (case)	-40℃ ~ +105℃ (+85℃ to +105℃: decreasing factor 1.35% per °C for $U_{N,85℃}$.)
额定电压($U_{N,85℃}$) Rated Voltage($U_{N,85℃}$)	500Vdc, 600Vdc, 800Vdc, 900Vdc, 1000Vdc, 1100Vdc, 1200Vdc
电容量偏差 Capacitance Tolerance	±5%(J), ±10%(K)
耐电压 Voltage Proof	1.5 U_N (10s)
绝缘电阻 Insulation Resistance ($IR \times C_N$)	≥ 10 000s (20℃, 100Vdc, 1min)
自感 (L_s) Self Inductance (L_s)	< 1nH per mm of lead spacing
最大峰值电流 \bar{I} (A) Maxmum peak current \bar{I} (A)	$\bar{I} = C \cdot dV/dt$
预期寿命 Expected life time	100 000 hours @ U_N , $\theta_{HS} = 70℃$

CD19:Series/Type系列/类型: MKP1系列

■ 产品代码编写说明: Part number code system:

16 位产品代码如下: The 16 digits part number is formed as follow:

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
M	K	P	1												

第 1~4 位	薄膜电容器系列代码 MKP1=MKP1	Digit 1~4	Series code of film capacitor MKP1=MKP1
第 5~7 位	标称容量代码 举例: 105=10×10 ⁵ pF=1μF	Digit 5~7	Rated capacitance value code For example:105=10×10 ⁵ pF=1μF
第 8 位	容量等级代码 J=±5%,K=±10%	Digit 8	Capacitance tolerance code J=±5%,K=±10%
第 9~10 位	直流额定电压代码 2H=500V 1U=600V 2K=800V 1X=900V 3A=1000V 1M=1100V 3L=1200V	Digit 9~10	DC rated voltage code 2H=500V 1U=600V 2K=800V 1X=900V 3A=1000V 1M=1100V 3L=1200V
第 11 位	引线间距 B=27.5mm F=37.5mm M=52.5mm	Digit 11	Pitch B=27.5mm F=37.5mm M=52.5mm
第 12 位	内部特征码	Digit 12	Internal use
第 13~16 位	引出端代码 见表 1	Digit 13~16	Terminals code Referring to table 1
表 1	引线形式代码	Table 1	Lead form code

第13位 Digit13		第14~15位 Digit14~Digit15		第 16 位 Digit16	
引线形式及P1 Lead form and pitch P1		引线长度 Lead length		引线长度偏差 Length tolerance	
代码 Code	说明 explanation	代码 Code	说明 explanation	代码 Code	说明 explanation
0	2Pins P1=0mm	00	标准引线长度5.5mm standard lead length 5.5mm	0	引线长度偏差±1.0mm Length tolerance±1.0mm
1	4Pins P1=5.1mm				
2	4Pins P1=10.2mm				
3	4Pins P1=12.7mm				
4	4Pins P1=15.2mm				
5	4Pins P1=20.3mm				

CD19:Series/Type系列/类型: MKP1系列

■ 产品尺寸及性能参数: Product Dimension and Characteristic Data:

UN(85℃): 500Vdc/UN(105℃): 350Vdc												
C (μF)	W	H	T	P	P1	d	dv/dt (V/μs)	tgδ×(10 ⁻⁴)		ESR (mΩ)	I _{rms} (A)	产品代码 Part number
								1KHz	10KHz			
5	32	20	11	27.5	-	0.8	65	10	100	10.6	6.0	MKP1505-2HB00000
10	32	25	14	27.5	-	0.8	65	10	100	6.1	9.0	MKP1106-2HB00000
22	32	37	22	27.5	-	0.8	65	10	100	3.9	12.0	MKP1226-2HB00000
25	42	40	20	37.5	10.2	1	30	15	150	5.7	13.5	MKP1256-2HF02000
30	42	40	20	37.5	10.2	1	30	15	150	4.8	14.5	MKP1306-2HF02000
35	42	36	24	37.5	10.2	1	30	15	150	4.2	15.5	MKP1356-2HF02000
40	42	37.5	27.5	37.5	10.2	1	30	15	150	3.8	17.5	MKP1406-2HF02000
50	42	43	28	37.5	12.7	1.2	30	15	150	3.3	19.0	MKP1506-2HF03000
50	42	45	30	37.5	20.3	1.2	30	15	150	3.0	20.5	MKP1506-2HF05000
60	42	45	30	37.5	20.3	1.2	30	15	150	3.0	21.0	MKP1606-2HF05000
75	57	45	30	52.5	12.7	1.2	15	35	350	2.6	23.0	MKP1756-2HM03000
75	57	45	30	52.5	20.3	1.2	15	35	350	3.7	22.0	MKP1756-2HM05000
80	57	45	30	52.5	20.3	1.2	15	35	350	3.7	22.0	MKP1806-2HM05000
100	57	50	35	52.5	20.3	1.2	15	35	350	3.5	22.5	MKP1107-2HM05000
110	57	50	35	52.5	20.3	1.2	15	35	350	2.9	26.0	MKP1117-2HM05000

UN(85℃): 600Vdc/UN(105℃): 400Vdc												
C (μF)	W	H	T	P	P1	d	dv/dt (V/μs)	tgδ×(10 ⁻⁴)		ESR (mΩ)	I _{rms} (A)	产品代码 Part number
								1KHz	10KHz			
2	32	18	9	27.5	-	0.8	65	11	100	48.0	2.8	MKP1205-1UB00000
3	32	20	11	27.5	-	0.8	65	11	100	32.0	4.4	MKP1305-1UB00000
4	32	20	11	27.5	-	0.8	65	11	100	24.0	6.1	MKP1405-1UB00000
5	32	22	13	27.5	-	0.8	65	11	100	19.5	7.2	MKP1505-1UB00000
6	32	25	13	27.5	-	0.8	65	11	100	19.0	7.7	MKP1605-1UB00000
7	32	25	14	27.5	-	0.8	65	11	100	16.0	8.8	MKP1705-1UB00000
8	32	28	14	27.5	-	0.8	65	11	100	14.0	10.5	MKP1805-1UB00000
9	32	28	17	27.5	-	0.8	65	11	100	12.5	11.6	MKP1905-1UB00000
10	32	28	17	27.5	-	0.8	65	11	100	11.5	12.7	MKP1106-1UB00000
12	32	33	18	27.5	-	0.8	65	11	100	11.0	13.2	MKP1126-1UB00000
12	32	33	18	27.5	10.2	0.8	65	11	100	9.5	15.4	MKP1126-1UB02000
15	32	37	22	27.5	-	0.8	65	11	100	9.0	13.2	MKP1156-1UB00000
15	32	37	22	27.5	10.2	0.8	65	11	100	7.5	19.3	MKP1156-1UB02000
18	32	37	22	27.5	-	0.8	65	11	100	8.0	13.2	MKP1186-1UB00000
18	32	37	22	27.5	12.7	0.8	65	11	100	6.5	23.1	MKP1186-1UB03000
10	42	26	15	37.5	-	1	30	20	175	19.5	6.6	MKP1106-1UF00000
12	42	30	16	37.5	-	1	30	20	175	16.5	7.7	MKP1126-1UF00000
15	42	30	16	37.5	-	1	30	20	175	13.0	9.9	MKP1156-1UF00000
20	42	40	20	37.5	10.2	1	30	20	175	10.0	13.2	MKP1206-1UF02000
22	42	40	20	37.5	10.2	1	30	20	175	9.0	14.9	MKP1226-1UF02000
25	42	40	20	37.5	12.7	1	30	20	175	8.0	16.5	MKP1256-1UF03000
30	42	44	24	37.5	12.7	1	30	20	175	6.5	20.4	MKP1306-1UF03000
35	42	45	30	37.5	12.7	1.2	30	20	175	6.0	22.0	MKP1356-1UF03000
35	42	45	30	37.5	20.3	1.2	30	20	175	6.0	22.0	MKP1356-1UF05000
40	42	45	30	37.5	12.7	1.2	30	20	175	5.5	25.3	MKP1406-1UF03000
40	42	45	30	37.5	20.3	1.2	30	20	175	5.5	25.3	MKP1406-1UF05000

备注:

CD19:Series/Type系列/类型: MKP1系列

“-”表示客户要求的容量偏差

ESR 值为 f=10KHz 下的典型值

“-”=custom's capacitor tolerance code, J=±5%, K=±10%

ESR typical values at 10KHz

UN(85℃): 600Vdc/UN(105℃): 400Vdc												
C (μF)	W	H	T	P	P1	d	dv/dt (V/μs)	tgδ×(10 ⁻⁴)		ESR (mΩ)	I _{rms} (A)	产品代码 Part number
								1KHz	10KHz			
45	42	50	35	37.5	12.7	1.2	30	20	175	5.0	28.1	MKP1456-1UF03000
45	42	50	35	37.5	20.3	1.2	30	20	175	5.0	28.1	MKP1456-1UE05000
50	42	50 (46)	35	37.5	20.3	1.2	30	20	175	4.5	31.4	MKP1506-1UF05000
55	42	50	35	37.5	20.3	1.2	30	20	175	4.0	34.7	MKP1556-1UF05000
60	42	55	40	37.5	20.3	1.2	30	20	175	3.5	38.0	MKP1606-1UF05000
65	42	55	40	37.5	20.3	1.2	30	20	175	3.5	40.7	MKP1656-1UF05000
70	42	55	40	37.5	20.3	1.2	30	20	175	3.0	44.0	MKP1706-1UF05000
75	42	60	45	37.5	20.3	1.2	30	20	175	3.0	47.3	MKP1756-1UF05000
80	42	60	45	37.5	20.3	1.2	30	20	175	3.0	50.1	MKP1806-1UF05000
85	42	60	45	37.5	20.3	1.2	30	20	175	2.5	53.4	MKP1856-1UF05000
40	57	45	25	52.5	12.7	1.2	15	36	350	10.0	13.2	MKP1406-1UM03000
45	57	45	25	52.5	12.7	1.2	15	36	350	9.0	14.9	MKP1456-1UM03000
50	57	45	25	52.5	12.7	1.2	15	36	350	8.0	16.5	MKP1506-1UM03000
55	57	45	30	52.5	12.7	1.2	15	36	350	7.5	18.2	MKP1556-1UM03000
55	57	45	30	52.5	20.3	1.2	15	36	350	7.5	18.2	MKP1556-1UM05000
60	57	45	30	52.5	12.7	1.2	15	36	350	6.5	20.4	MKP1606-1UM03000
60	57	45	30	52.5	20.3	1.2	15	36	350	6.5	20.4	MKP1606-1UM05000
65	57	50	35	52.5	12.7	1.2	15	36	350	6.0	22.0	MKP1656-1UM03000
65	57	50	35	52.5	20.3	1.2	15	36	350	6.0	22.0	MKP1656-1UM05000
70	57	50	35	52.5	20.3	1.2	15	36	350	6.0	23.7	MKP1706-1UM05000
75	57	50	35	52.5	20.3	1.2	15	36	350	5.5	25.3	MKP1756-1UM05000
80	57	50	35	52.5	20.3	1.2	15	36	350	5.0	27.0	MKP1806-1UM05000
85	57	50	35	52.5	20.3	1.2	15	36	350	5.0	27.5	MKP1856-1UM05000
90	57	55	40	52.5	20.3	1.2	15	36	350	5.0	28.1	MKP1906-1UM05000
95	57	55	40	52.5	20.3	1.2	15	36	350	4.5	29.7	MKP1956-1UM05000
100	57	55	40	52.5	20.3	1.2	15	36	350	4.5	31.4	MKP1107-1UM05000
110	57	55	45	52.5	20.3	1.2	15	36	350	4.0	34.7	MKP1117-1UM05000
120	57	65	45	52.5	20.3	1.2	15	36	350	3.5	38.0	MKP1127-1UM05000
130	57	65	45	52.5	20.3	1.2	15	36	350	3.5	40.7	MKP1137-1UM05000
140	57	65	45	52.5	20.3	1.2	15	36	350	3.0	44.0	MKP1147-1UM05000

U _N (85℃): 800Vdc/ U _N (105℃): 560Vdc												
C (μF)	W	H	T	P	P1	d	dv/dt (V/μs)	tgδ×(10 ⁻⁴)		ESR (mΩ)	I _{rms} (A)	产品代码 Part number
								1KHz	10KHz			
2	32	18	9	27.5	-	0.8	65	10	95	45.5	2.8	MKP1205-2KB00000
3	32	20	11	27.5	-	0.8	65	10	95	30.5	4.4	MKP1305-2KB00000
3.3	32	22	13	27.5	-	0.8	65	10	95	19.0	7.7	MKP1335-2KB00000
4	32	25	13	27.5	-	0.8	65	10	95	23.0	6.1	MKP1405-2KB00000
5	32	25	14	27.5	-	0.8	65	10	95	18.5	7.7	MKP1505-2KB00000
6	32	28	17	27.5	-	0.8	65	10	95	15.5	9.4	MKP1605-2KB00000
7	32	28	17	27.5	-	0.8	65	10	95	13.0	11.0	MKP1705-2KB00000
8	32	33	18	27.5	-	0.8	65	10	95	12.5	11.6	MKP1805-2KB00000
8	32	33	18	27.5	10.2	0.8	65	10	95	11.5	12.7	MKP1805-2KB02000
9	32	33	18	27.5	-	0.8	65	10	95	11.5	12.7	MKP1905-2KB00000
9	32	33	18	27.5	10.2	0.8	65	10	95	10.5	14.3	MKP1905-2KB02000

备注:

“-”表示客户要求的容量偏差

ESR 值为 f=10KHz 下的典型值

“-”=custom's capacitor tolerance code, J=±5%, K=±10%

ESR typical values at 10KHz

CD19:Series/Type系列/类型: MKP1系列

UN(85℃): 800Vdc/UN(105℃): 560Vdc												
C (μF)	W	H	T	P	P1	d	dv/dt (V/μs)	tgδ×(10 ⁻⁴)		ESR (mΩ)	I _{rms} (A)	产品代码 Part number
								1KHz	10KHz			
10	32	37	22	27.5	-	0.8	65	10	95	11.0	13.2	MKP1106-2KB00000
10	32	37	22	27.5	10.2	0.8	65	10	95	9.5	16.0	MKP1106-2KB02000
11	32	37	22	27.5	-	0.8	65	10	95	10.0	13.2	MKP1116-2KB00000
11	32	37	22	27.5	10.2	0.8	65	10	95	8.5	17.6	MKP1116-2KB02000
12	32	37	22	27.5	-	0.8	65	10	95	9.5	13.2	MKP1126-2KB00000
12	32	37	22	27.5	10.2	0.8	65	10	95	8.0	17.6	MKP1126-2KB02000
13	32	37	22	27.5	-	0.8	65	10	95	9.0	13.2	MKP1136-2KB00000
13	32	37	22	27.5	12.7	0.8	65	10	95	8.5	17.6	MKP1136-2KB03000
14	32	37	22	27.5	-	0.8	65	10	95	8.5	13.2	MKP1146-2KB00000
8	42	26	15	37.5	-	1	30	18	160	22.5	5.5	MKP1805-2KF00000
9	42	30	16	37.5	-	1	30	18	160	20.0	6.6	MKP1905-2KF00000
10	42	30	16	37.5	-	1	30	18	160	18.0	7.2	MKP1106-2KF00000
12	42	30	16	37.5	-	1	30	18	160	15.0	8.8	MKP1126-2KF00000
15	42	40	20	37.5	10.2	1	30	18	160	12.0	11.0	MKP1156-2KF02000
20	42	44	24	37.5	12.7	1	30	18	160	9.0	14.9	MKP1206-2KF03000
25	42	44	24	37.5	12.7	1	30	18	160	7.5	18.2	MKP1256-2KF03000
30	42	45	30	37.5	12.7	1.2	30	18	160	6.0	22.0	MKP1306-2KF03000
30	42	45	30	37.5	20.3	1.2	30	18	160	6.0	22.0	MKP1306-2KF05000
35	42	50	35	37.5	20.3	1.2	30	18	160	5.5	24.2	MKP1356-2KF05000
40	42	50	35	37.5	20.3	1.2	30	18	160	5.0	27.5	MKP1406-2KF05000
45	42	55	40	37.5	20.3	1.2	30	18	160	4.5	30.8	MKP1456-2KF05000
50	42	55	40	37.5	20.3	1.2	30	18	160	4.0	34.1	MKP1506-2KF05000
55	42	55	40	37.5	20.3	1.2	30	18	160	3.5	38.0	MKP1556-2KF05000
60	42	60	45	37.5	20.3	1.2	30	18	160	3.5	41.3	MKP1606-2KF05000
65	42	60	45	37.5	20.3	1.2	30	18	160	3.0	44.6	MKP1656-2KF05000
25	57	45	25	52.5	12.7	1.2	15	33	320	14.5	8.8	MKP1256-2KM03000
30	57	45	25	52.5	12.7	1.2	15	33	320	12.0	11.0	MKP1306-2KM03000
35	57	45	25	52.5	12.7	1.2	15	33	320	10.5	13.0	MKP1356-2KM03000
40	57	45	30	52.5	12.7	1.2	15	33	320	9.0	14.9	MKP1406-2KM03000
40	57	45	30	52.5	20.3	1.2	15	33	320	9.0	14.9	MKP1406-2KM05000
45	57	45	30	52.5	12.7	1.2	15	33	320	8.0	16.5	MKP1456-2KM03000
45	57	45	30	52.5	20.3	1.2	15	33	320	8.0	16.5	MKP1456-2KM05000
50	57	50	35	52.5	12.7	1.2	15	33	320	7.5	18.2	MKP1506-2KM03000
50	57	50	35	52.5	20.3	1.2	15	33	320	7.5	18.2	MKP1506-2KM05000
55	57	50	35	52.5	20.3	1.2	15	33	320	6.5	20.4	MKP1556-2KM05000
60	57	50	35	52.5	20.3	1.2	15	33	320	6.0	22.0	MKP1606-2KM05000
65	57	55	40	52.5	20.3	1.2	15	33	320	5.5	23.7	MKP1656-2KM05000
70	57	55	40	52.5	20.3	1.2	15	33	320	5.5	25.9	MKP1706-2KM05000
75	57	55	40	52.5	20.3	1.2	15	33	320	5.0	27.5	MKP1756-2KM05000
80	57	55	40	52.5	20.3	1.2	15	33	320	5.0	28.1	MKP1806-2KM05000
85	57	55	45	52.5	20.3	1.2	15	33	320	4.5	29.2	MKP1856-2KM05000
90	57	55	45	52.5	20.3	1.2	15	33	320	4.5	30.8	MKP1906-2KM05000
95	57	65	45	52.5	20.3	1.2	15	33	320	4.0	32.5	MKP1956-2KM05000
100	57	65	45	52.5	20.3	1.2	15	33	320	4.0	34.1	MKP1107-2KM05000
110	57	65	45	52.5	20.3	1.2	15	33	320	3.5	38.0	MKP1117-2KM05000

备注:

"-" 表示客户要求的容量偏差

"-"=custom's capacitor tolerance code, J=±5%, K=±10%

ESR 值为 f=10KHz 下的典型值

ESR typical values at 10KHz

CD19:Series/Type系列/类型: MKP1系列

U _n (85℃): 900Vdc/U _n (105℃): 650Vdc												
C (μF)	W	H	T	P	P1	d	dv/dt (V/μs)	tgδ×(10 ⁻⁴)		ESR (mΩ)	I _{rms} (A)	产品代码 Part number
								1KHz	10KHz			
1	32	18	9	27.5	-	0.8	70	9	90	86.0	1.7	MKP1105-1XB00000
2	32	20	11	27.5	-	0.8	70	9	90	43.0	3.3	MKP1205-1XB00000
3	32	22	13	27.5	-	0.8	70	9	90	29.0	5.0	MKP1305-1XB00000
4	32	25	13	27.5	-	0.8	70	9	90	21.5	6.6	MKP1405-1XB00000
5	32	28	17	27.5	-	0.8	70	9	90	17.5	8.3	MKP1505-1XB00000
6	32	33	18	27.5	-	0.8	70	9	90	18.0	7.2	MKP1605-1XB00000
6	32	33	18	27.5	10.2	0.8	70	9	90	14.5	9.9	MKP1605-1XB02000
7	32	33	18	27.5	-	0.8	70	9	90	13.0	11.0	MKP1705-1XB00000
7	32	33	18	27.5	10.2	0.8	70	9	90	12.5	11.6	MKP1705-1XB02000
8	32	37	22	27.5	-	0.8	70	9	90	11.5	12.1	MKP1805-1XB00000
8	32	37	22	27.5	10.2	0.8	70	9	90	11.0	13.2	MKP1805-1XB02000
9	32	37	22	27.5	-	0.8	70	9	90	10.5	13.2	MKP1905-1XB00000
9	32	37	22	27.5	12.7	0.8	70	9	90	10.0	14.9	MKP1905-1XB03000
10	32	37	22	27.5	-	0.8	70	9	90	12.0	13.2	MKP1106-1XB00000
10	32	37	22	27.5	12.7	0.8	70	9	90	9.0	16.5	MKP1106-1XB03000
4.7	42	26	15	37.5	-	1	35	17	150	36.0	3.3	MKP1475-1XF00000
5	42	26	15	37.5	-	1	35	17	150	33.5	3.9	MKP1505-1XF00000
6	42	26	15	37.5	-	1	35	17	150	28.0	4.4	MKP1605-1XF00000
7	42	30	16	37.5	-	1	35	17	150	24.0	5.5	MKP1705-1XF00000
8	42	30	16	37.5	-	1	35	17	150	21.0	6.1	MKP1805-1XF00000
10	42	33	18	37.5	10.2	1	35	17	150	17.0	7.7	MKP1106-1XF02000
12	42	37	22	37.5	10.2	1	35	17	150	14.0	9.4	MKP1126-1XF02000
15	42	37	22	37.5	12.7	1	35	17	150	11.5	11.6	MKP1156-1XF03000
18	42	44	24	37.5	12.7	1	35	17	150	9.5	13.8	MKP1186-1XF03000
20	42	44	24	37.5	12.7	1	35	17	150	8.5	15.4	MKP1206-1XF03000
25	42	45	30	37.5	12.7	1.2	35	17	150	7.0	19.3	MKP1256-1XF03000
25	42	45	30	37.5	20.3	1.2	35	17	150	7.0	19.3	MKP1256-1XF05000
30	42	50	35	37.5	20.3	1.2	35	17	150	6.0	23.7	MKP1306-1XF05000
35	42	50	35	37.5	20.3	1.2	35	17	150	5.5	25.3	MKP1356-1XF05000
40	42	55	40	37.5	20.3	1.2	35	17	150	4.5	29.2	MKP1406-1XF05000
45	42	60	45	37.5	20.3	1.2	35	17	150	4.0	33.0	MKP1456-1XF05000
50	42	60	45	37.5	20.3	1.2	35	17	150	4.0	36.9	MKP1506-1XF05000
15	57	45	25	52.5	10.2	1.2	15	31	300	22.5	5.5	MKP1156-1XM02000
20	57	45	25	52.5	12.7	1.2	15	31	300	17.0	7.7	MKP1206-1XM03000
25	57	45	25	52.5	12.7	1.2	15	31	300	13.5	9.9	MKP1256-1XM03000
30	57	45	30	52.5	12.7	1.2	15	31	300	11.5	11.6	MKP1306-1XM03000
30	57	45	30	52.5	20.3	1.2	15	31	300	11.5	11.6	MKP1306-1XM05000
35	57	45	30	52.5	12.7	1.2	15	31	300	10.0	13.8	MKP1356-1XM03000
35	57	45	30	52.5	20.3	1.2	15	31	300	10.0	13.8	MKP1356-1XM05000
40	57	50	35	52.5	20.3	1.2	15	31	300	8.5	15.4	MKP1406-1XM05000
45	57	50	35	52.5	20.3	1.2	15	31	300	7.5	17.6	MKP1456-1XM05000
50	57	50	35	52.5	20.3	1.2	15	31	300	7.0	19.3	MKP1506-1XM05000
55	57	55	40	52.5	20.3	1.2	15	31	300	6.5	21.5	MKP1556-1XM05000
60	57	55	40	52.5	20.3	1.2	15	31	300	6.0	23.7	MKP1606-1XM05000
65	57	55	45	52.5	20.3	1.2	15	31	300	5.5	25.3	MKP1656-1XM05000
70	57	65	45	52.5	20.3	1.2	15	31	300	5.0	27.5	MKP1706-1XM05000

备注:

"-" 表示客户要求的容量偏差

"-"=custom's capacitor tolerance code, J=±5%, K=±10%

ESR 值为 f=10KHz 下的典型值

ESR typical values at 10KHz

CD19:Series/Type系列/类型: MKP1系列

U _N (85℃): 900Vdc/U _N (105℃): 650Vdc												
C (μF)	W	H	T	P	P1	d	dv/dt (V/μs)	tgδ×(10 ⁻⁴)		ESR (mΩ)	I _{rms} (A)	产品代码 Part number
								1KHz	10KHz			
75	57	65	45	52.5	20.3	1.2	15	31	300	5.0	28.1	MKP1756-1XM05000
80	57	65	45	52.5	20.3	1.2	15	31	300	4.5	29.2	MKP1806-1XM05000
85	57	65	45	52.5	20.3	1.2	15	31	300	4.5	31.4	MKP1856-1XM05000

UN(85℃): 1000Vdc/UN(105℃): 700Vdc												
C (μF)	W	H	T	P	P1	d	dv/dt (V/μs)	tgδ×(10 ⁻⁴)		ESR (mΩ)	I _{rms} (A)	产品代码 Part number
								1KHz	10KHz			
1	32	18	9	27.5	-	0.8	75	8	80	76.5	1.7	MKP1105-3AB00000
2	32	22	13	27.5	-	0.8	75	8	80	38.5	3.9	MKP1205-3AB00000
3	32	25	14	27.5	-	0.8	75	8	80	25.5	5.5	MKP1305-3AB00000
4	32	28	17	27.5	-	0.8	75	8	80	19.5	7.2	MKP1405-3AB00000
5	32	33	18	27.5	-	0.8	75	8	80	15.5	9.4	MKP1505-3AB00000
6	32	33	18	27.5	-	0.8	75	8	80	15.0	9.4	MKP1605-3AB00000
6	32	33	18	27.5	10.2	0.8	75	8	80	14.0	10.5	MKP1605-3AB02000
7	32	37	22	27.5	-	0.8	75	8	80	14.5	9.9	MKP1705-3AB00000
7	32	37	22	27.5	12.7	0.8	75	8	80	11.5	12.7	MKP1705-3AB03000
8	32	37	22	27.5	-	0.8	75	8	80	13.0	11.6	MKP1805-3AB00000
8	32	37	22	27.5	12.7	0.8	75	8	80	10.0	14.3	MKP1805-3AB03000
5	42	26	15	37.5	-	1	37	15	140	31.5	3.9	MKP1505-3AF00000
6	42	30	16	37.5	-	1	37	15	140	26.0	5.0	MKP1605-3AF00000
7	42	33	18	37.5	-	1	37	15	140	22.5	5.5	MKP1705-3AF00000
8	42	33	18	37.5	-	1	37	15	140	19.5	6.6	MKP1805-3AF00000
10	42	40	20	37.5	10.2	1	37	15	140	16.0	8.3	MKP1106-3AF02000
12	42	37	22	37.5	12.7	1	37	15	140	13.0	9.9	MKP1126-3AF03000
12	42	37	22	37.5	-	1	37	15	140	15.0	8.8	MKP1126-3AF00000
15	42	44	24	37.5	12.7	1	37	15	140	10.5	12.7	MKP1156-3AF03000
18	42	45	30	37.5	12.7	1.2	37	15	140	9.0	14.9	MKP1186-3AF03000
18	42	45	30	37.5	20.3	1.2	37	15	140	9.0	14.9	MKP1186-3AF05000
20	42	45	30	37.5	12.7	1.2	37	15	140	8.0	16.5	MKP1206-3AF03000
20	42	45	30	37.5	20.3	1.2	37	15	140	8.0	16.5	MKP1206-3AF05000
25	42	50	35	37.5	20.3	1.2	37	15	140	6.5	20.9	MKP1256-3AF05000
30	42	55	40	37.5	20.3	1.2	37	15	140	5.5	25.3	MKP1306-3AF05000
35	42	55	40	37.5	20.3	1.2	37	15	140	5.0	27.5	MKP1356-3AF05000
40	42	60	45	37.5	20.3	1.2	37	15	140	4.5	31.4	MKP1406-3AF05000
15	57	45	25	52.5	12.7	1.2	17	28	280	21.0	6.1	MKP1156-3AM03000
20	57	45	25	52.5	12.7	1.2	17	28	280	16.0	8.3	MKP1206-3AM03000
25	57	45	25	52.5	12.7	1.2	17	28	280	12.5	10.5	MKP1256-3AM03000
30	57	45	30	52.5	12.7	1.2	17	28	280	10.5	12.7	MKP1306-3AM03000
30	57	45	30	52.5	20.3	1.2	17	28	280	10.5	12.7	MKP1306-3AM05000
35	57	50	35	52.5	20.3	1.2	17	28	280	9.0	14.9	MKP1356-3AM05000
40	57	50	35	52.5	20.3	1.2	17	28	280	8.0	16.5	MKP1406-3AM05000
45	57	55	40	52.5	20.3	1.2	17	28	280	7.0	18.7	MKP1456-3AM05000
50	57	55	45	52.5	20.3	1.2	17	28	280	6.5	20.9	MKP1506-3AM05000
55	57	55	45	52.5	20.3	1.2	17	28	280	6.0	23.1	MKP1556-3AM05000
60	57	65	45	52.5	20.3	1.2	17	28	280	5.5	25.3	MKP1606-3AM05000
65	57	65	45	52.5	20.3	1.2	17	28	280	5.0	27.5	MKP1656-3AM05000
70	57	65	45	52.5	20.3	1.2	17	28	280	4.5	29.2	MKP1706-3AM05000

备注:

"-" 表示客户要求的容量偏差

"-"=custom's capacitor tolerance code, J=±5%, K=±10%

ESR 值为 f=10KHz 下的典型值

ESR typical values at 10KHz

CD19:Series/Type系列/类型: MKP1系列

U _n (85℃): 1100Vdc/U _n (105℃): 800Vdc												
C (μF)	W	H	T	P	P1	d	dv/dt (V/μs)	tgδ×(10 ⁻⁴)		ESR (mΩ)	I _{rms} (A)	产品代码 Part number
								1KHz	10KHz			
1	32	20	11	27.5	-	0.8	80	8	70	59.5	2.2	MKP1105-1MB00000
1.5	32	22	13	27.5	-	0.8	80	8	70	56.0	2.2	MKP1155-1MB00000
2	32	25	13	27.5	-	0.8	80	8	70	28.0	5.0	MKP1205-1MB00000
3	32	30	16	27.5	-	0.8	80	8	70	20.5	7.2	MKP1305-1MB00000
4	32	33	18	27.5	-	0.8	80	8	70	15.5	9.4	MKP1405-1MB00000
5	32	37	22	27.5	-	0.8	80	8	70	14.0	10.5	MKP1505-1MB00000
5	32	37	22	27.5	10.2	0.8	80	8	70	12.5	11.6	MKP1505-1MB02000
6	32	37	22	27.5	-	0.8	80	8	70	12.5	11.6	MKP1605-1MB00000
6	32	37	22	27.5	10.2	0.8	80	8	70	10.5	13.8	MKP1605-1MB02000
3	42	26	15	37.5	-	1	40	15	130	48.5	2.8	MKP1305-1MF00000
4	42	26	15	37.5	-	1	40	15	130	36.5	3.3	MKP1405-1MF00000
4.7	42	33	18	37.5	10.2	1	40	15	130	31.0	3.9	MKP1475-1MF02000
5	42	33	18	37.5	-	1	40	15	130	29.0	4.4	MKP1505-1MF00000
6	42	33	18	37.5	-	1	40	15	130	24.5	5.5	MKP1605-1MF00000
7	42	40	20	37.5	10.2	1	40	15	130	21.0	6.1	MKP1705-1MF02000
8	42	37	22	37.5	10.2	1	40	15	130	18.5	7.2	MKP1805-1MF02000
9	42	37	22	37.5	12.7	1	40	15	130	16.5	8.3	MKP1905-1MF03000
10	42	44	24	37.5	12.7	1	40	15	130	14.5	8.8	MKP1106-1MF03000
12	42	44	24	37.5	12.7	1	40	15	130	12.5	10.5	MKP1126-1MF03000
12	42	44	24	37.5	-	1	40	15	130	14.0	9.4	MKP1126-1MF00000
15	42	45	30	37.5	12.7	1.2	40	15	130	10.0	13.2	MKP1156-1MF03000
15	42	45	30	37.5	20.3	1.2	40	15	130	10.0	13.2	MKP1156-1MF05000
18	42	50	35	37.5	20.3	1.2	40	15	130	8.5	16.0	MKP1186-1MF05000
20	42	50	35	37.5	20.3	1.2	40	15	130	7.5	18.2	MKP1206-1MF05000
25	42	55	40	37.5	20.3	1.2	40	15	130	6.0	22.6	MKP1256-1MF05000
30	42	60	45	37.5	20.3	1.2	40	15	130	5.0	27.0	MKP1306-1MF05000
15	57	45	25	52.5	12.7	1.2	20	27	260	19.5	6.6	MKP1156-1MM03000
20	57	45	30	52.5	12.7	1.2	20	27	260	14.5	8.8	MKP1206-1MM03000
20	57	45	30	52.5	20.3	1.2	20	27	260	14.5	8.8	MKP1206-1MM05000
25	57	50	35	52.5	20.3	1.2	20	27	260	12.0	11.0	MKP1256-1MM05000
30	57	50	35	52.5	20.3	1.2	20	27	260	10.0	13.2	MKP1306-1MM05000
35	57	55	40	52.5	20.3	1.2	20	27	260	8.5	15.4	MKP1356-1MM05000
40	57	55	40	52.5	20.3	1.2	20	27	260	8.0	17.1	MKP1406-1MM05000
45	57	55	45	52.5	20.3	1.2	20	27	260	7.0	18.7	MKP1456-1MM05000
50	57	65	45	52.5	20.3	1.2	20	27	260	6.5	20.9	MKP1506-1MM05000
55	57	65	45	52.5	20.3	1.2	20	27	260	6.0	23.1	MKP1556-1MM05000

备注:

"-"表示客户要求的容量偏差

ESR 值为 f=10KHz 下的典型值

"-"/"="custom's capacitor tolerance code, J=±5%, K=±10%

ESR typical values at 10KHz

CD19:Series/Type系列/类型: MKP1系列

U _N (85℃): 1200Vdc/U _N (105℃): 850Vdc												
C (μF)	W	H	T	P	P1	d	dv/dt (V/μs)	tgδ×(10 ⁻⁴)		ESR (mΩ)	I _{rms} (A)	产品代码 Part number
								1KHz	10KHz			
1	32	20	11	27.5	-	0.8	90	7	55	39.5	5.0	MKP1105-3LB00000
2	32	25	14	27.5	-	0.8	90	7	55	26.5	5.5	MKP1205-3LB00000
3	32	28	17	27.5	-	0.8	90	7	55	17.5	8.3	MKP1305-3LB00000
4	32	33	18	27.5	-	0.8	90	7	55	14.0	10.5	MKP1405-3LB00000
5	32	37	22	27.5	-	0.8	90	7	55	13.0	11.0	MKP1505-3LB00000
5	32	37	22	27.5	10.2	0.8	90	7	55	11.5	12.7	MKP1505-3LB02000
3	42	26	15	37.5	-	1	45	13	100	37.5	3.3	MKP1305-3LF00000
4	42	30	16	37.5	-	1	45	13	100	28.0	4.4	MKP1405-3LF00000
5	42	33	18	37.5	-	1	45	13	100	22.5	5.5	MKP1505-3LF00000
6	42	40	20	37.5	-	1	45	13	100	19.0	7.2	MKP1605-3LF00000
7	42	37	22	37.5	10.2	1	45	13	100	16.0	8.3	MKP1705-3LF02000
8	42	44	24	37.5	12.7	1	45	13	100	14.0	9.4	MKP1805-3LF03000
9	42	44	24	37.5	12.7	1	45	13	100	12.5	10.5	MKP1905-3LF03000
10	42	44	24	37.5	12.7	1	45	13	100	11.5	11.6	MKP1106-3LF03000
12	42	45	30	37.5	12.7	1.2	45	13	100	9.5	13.8	MKP1126-3LF03000
12	42	45	30	37.5	20.3	1.2	45	13	100	9.5	13.8	MKP1126-3LF05000
15	42	50	35	37.5	20.3	1.2	45	13	100	7.5	17.6	MKP1156-3LF05000
18	42	50	35	37.5	20.3	1.2	45	13	100	7.0	19.8	MKP1186-3LF05000
20	42	55	40	37.5	20.3	1.2	45	13	100	6.0	22.0	MKP1206-3LF05000
25	42	60	45	37.5	20.3	1.2	45	13	100	5.0	27.5	MKP1256-3LF05000
12	57	45	25	52.5	12.7	1.2	23	24	200	20.0	6.6	MKP1126-3LM03000
15	57	45	25	52.5	12.7	1.2	23	24	200	16.0	8.3	MKP1156-3LM03000
20	57	45	30	52.5	12.7	1.2	23	24	200	12.0	11.0	MKP1206-3LM03000
20	57	45	30	52.5	20.3	1.2	23	24	200	12.0	11.0	MKP1206-3LM05000
25	57	50	35	52.5	20.3	1.2	23	24	200	10.0	13.8	MKP1256-3LM05000
30	57	55	40	52.5	20.3	1.2	23	24	200	8.0	16.5	MKP1306-3LM05000
35	57	55	45	52.5	20.3	1.2	23	24	200	7.0	19.3	MKP1356-3LM05000
40	57	65	45	52.5	20.3	1.2	23	24	200	6.0	22.0	MKP1406-3LM05000
45	57	65	45	52.5	20.3	1.2	23	24	200	5.5	24.8	MKP1456-3LM05000

备注:

"-" 表示客户要求的容量偏差

"-"₁="custom's capacitor tolerance code, J=±5%, K=±10%

ESR 值为 f=10KHz 下的典型值

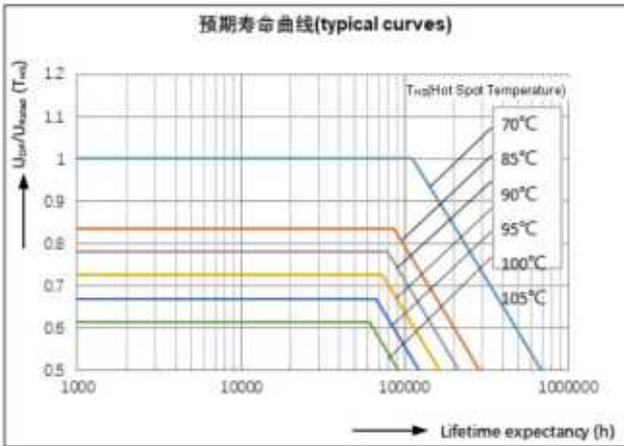
ESR typical values at 10KHz

I_{RMS} 值为 f=10KHz、T_{amb}=70℃、散热条件 10W/m²/℃、
ΔT_{case}≤20℃的最大电流有效值。

I_{RMS} is the maximum R.M.S current at 10KHz、T_{amb}=70℃、
ΔT_{case}≤20℃。(Coefficient of heat dissipation: 10W/m²/℃)

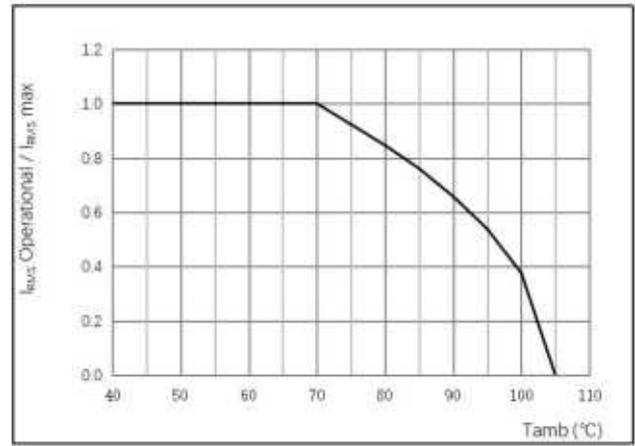
■ 预期寿命曲线

Expected Lifetime Curves:



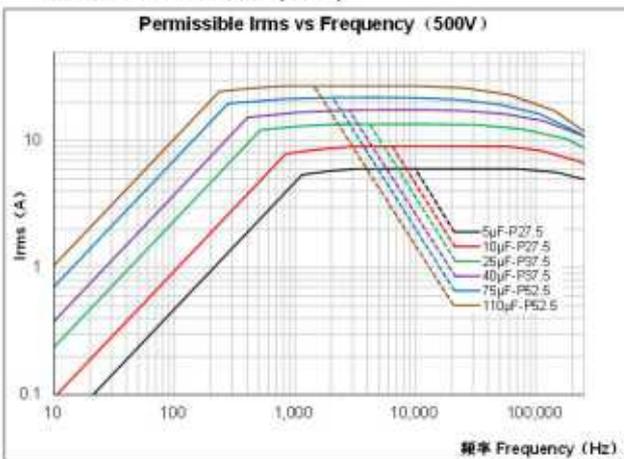
■ 纹波电流降额曲线

I_{RMS} Derating vs Ambient Temperature:

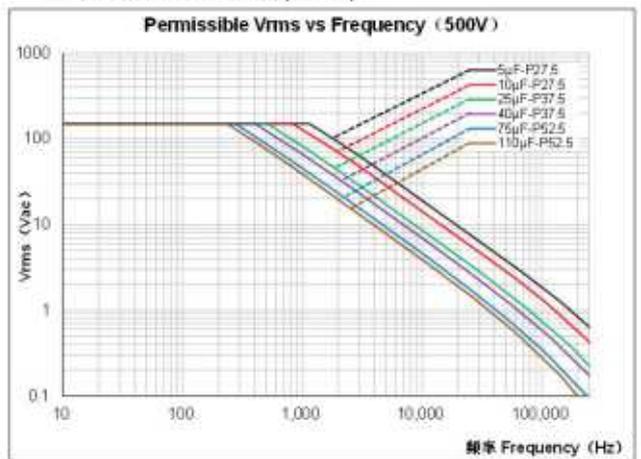


■ 有效值电流频率曲线 Permissible Vrms & Irms vs Frequency

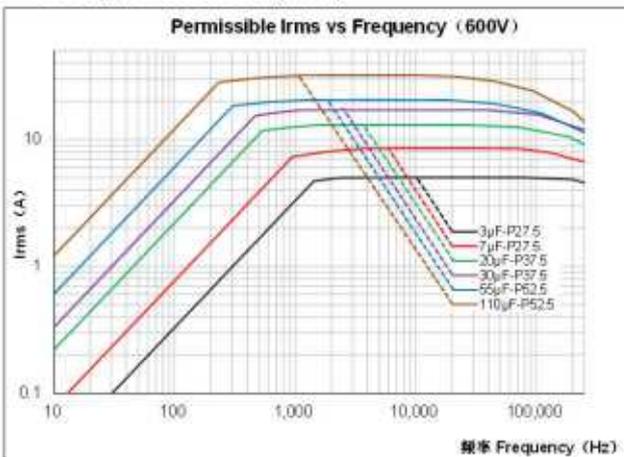
500V_{NDC} P27.5~P52.5(Irms)



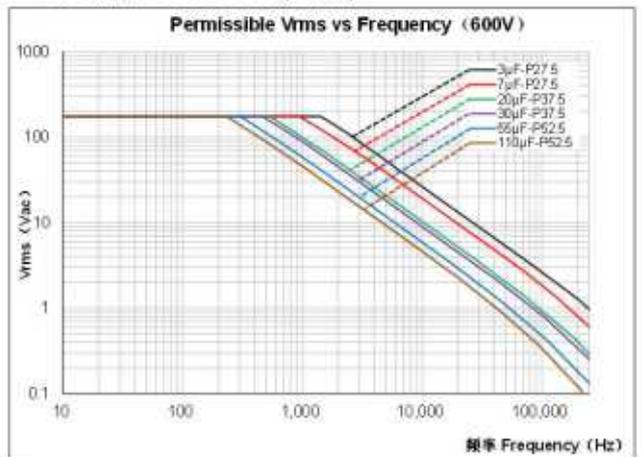
500V_{NDC} P27.5~P52.5(Vrms)



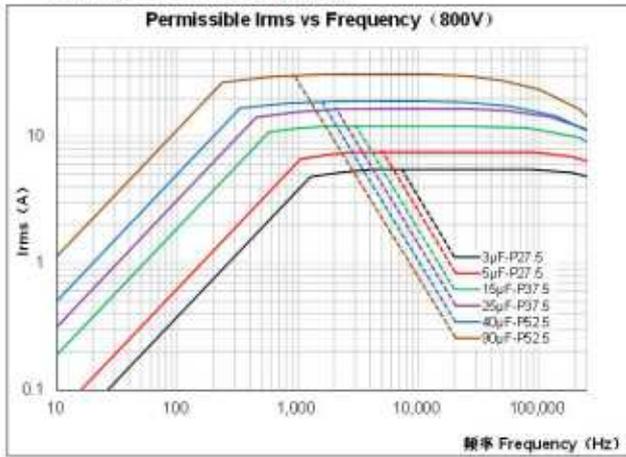
600V_{NDC} P27.5~P52.5(Irms)



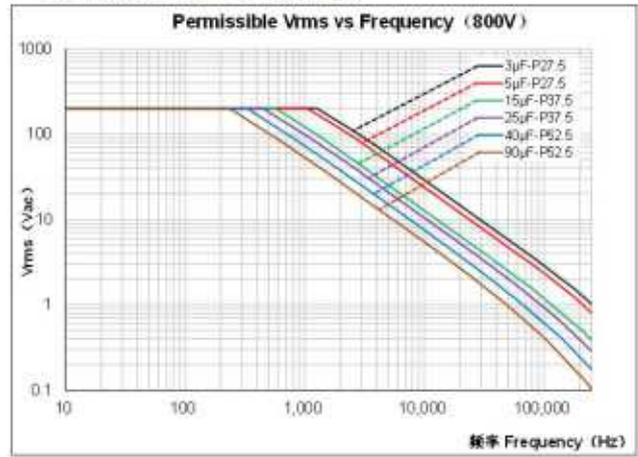
600V_{NDC} P27.5~P52.5(Vrms)



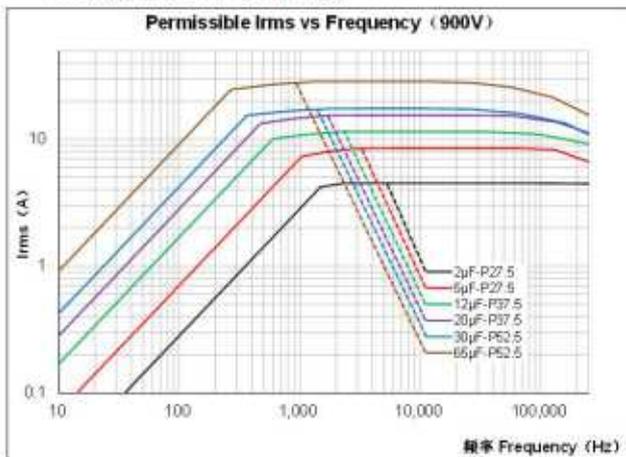
800V_{NDC} P27.5~P52.5(Irms)



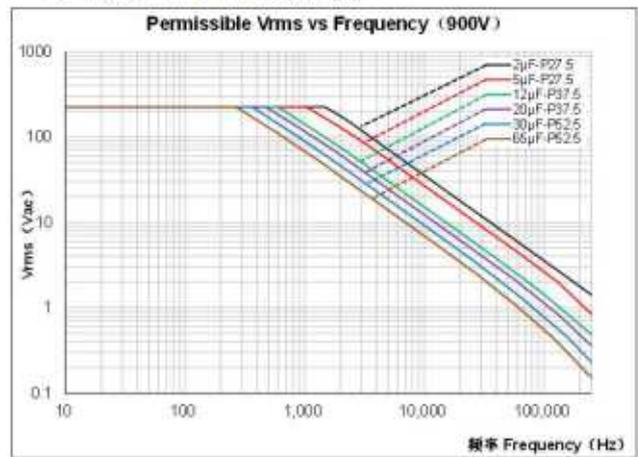
800V_{NDC} P27.5~P52.5(Vrms)



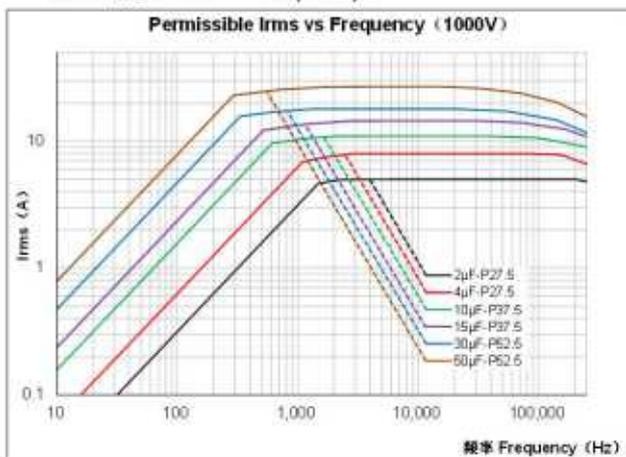
900V_{NDC} P27.5~P52.5(Irms)



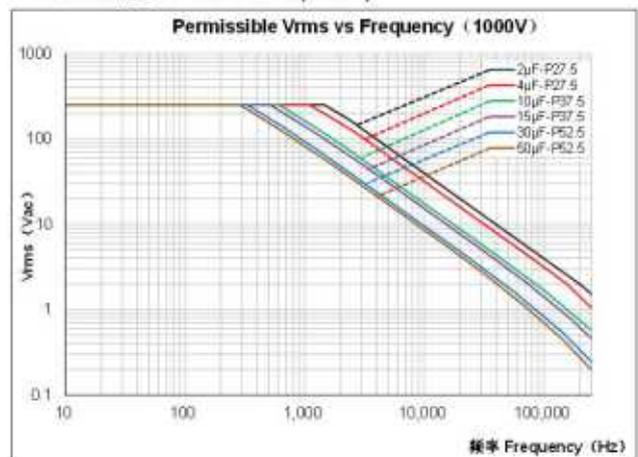
900V_{NDC} P27.5~P52.5(Vrms)



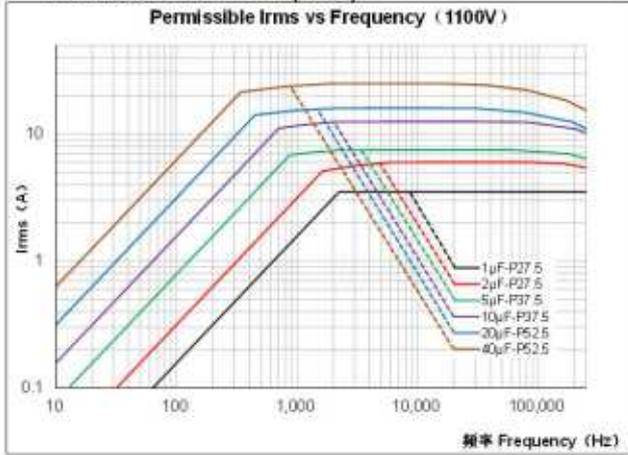
1000V_{NDC} P27.5~P52.5(Irms)



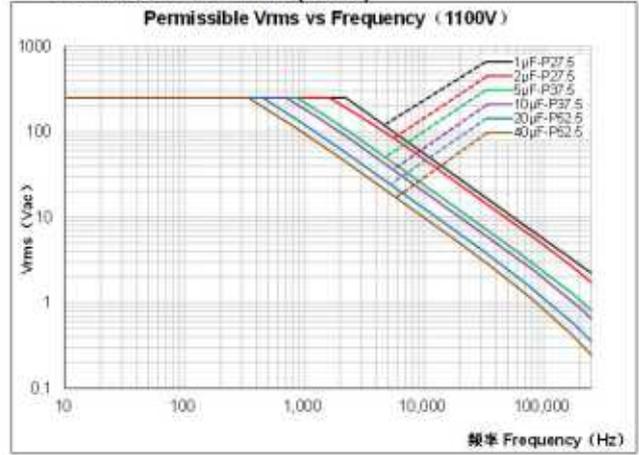
1000V_{NDC} P27.5~P52.5(Vrms)



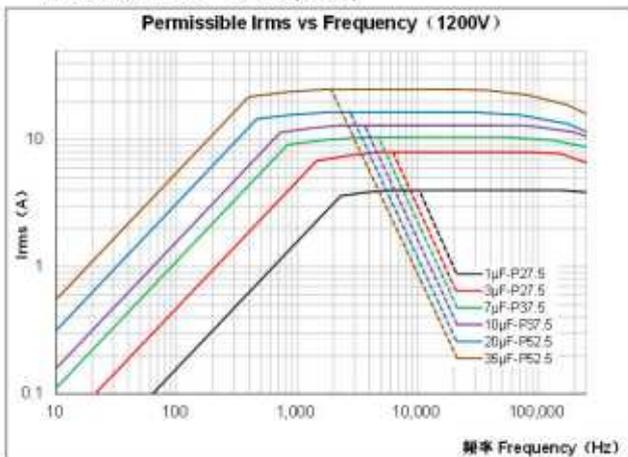
1100V_{NDC} P27.5~P52.5(Irms)



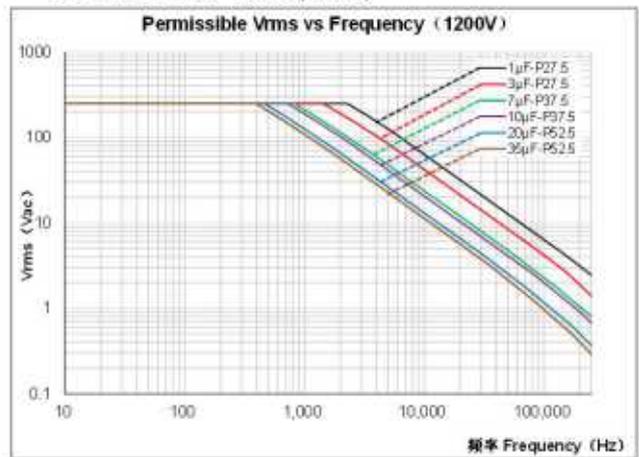
1100V_{NDC} P27.5~P52.5(Vrms)



1200V_{NDC} P27.5~P52.5(Irms)



1200V_{NDC} P27.5~P52.5(Vrms)



注:

纹波电流或纹波电压值基于 $T_{amb}=70^{\circ}\text{C}$ 条件下;
产品散热系数: $10\text{W}/\text{m}^2/^{\circ}\text{C}$;
当 $f \geq 100\text{KHz}$, I_{rms} 和 V_{rms} 仅供参考。

Note:

Permissible V_{rms} & I_{rms} curves frequency f at $T_{amb}=70^{\circ}\text{C}$;
Coefficient of heat dissipation: $10\text{W}/\text{m}^2/^{\circ}\text{C}$;
At $f \geq 100\text{KHz}$, I_{rms} & V_{rms} are only for reference.