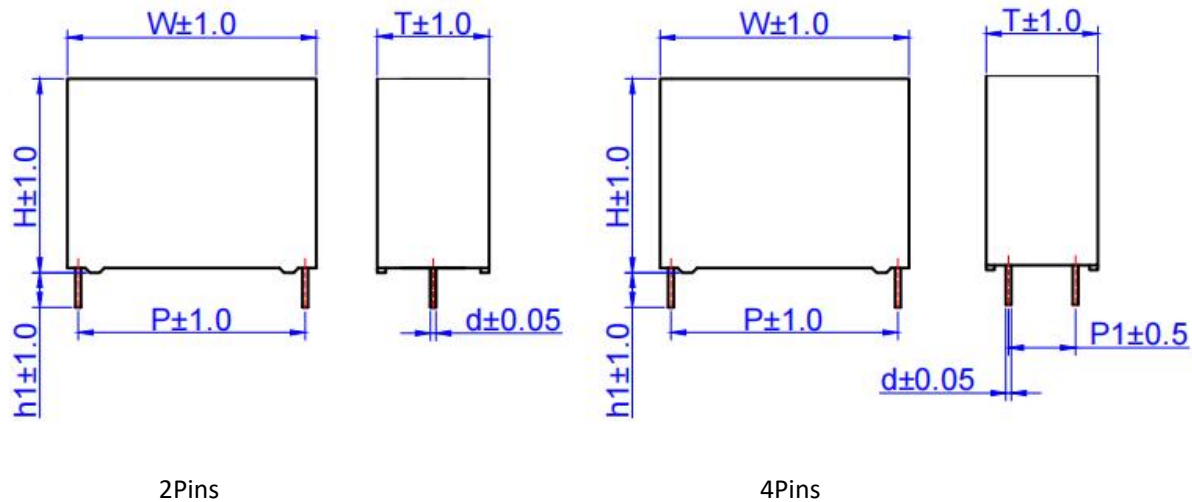


CD20:Series/Type 系列/类型: MKP1 系列

MKP1 型 DC-Link 电容器(PCB) THB 防潮系列 < 85℃/85%RH /1000h / UNDC >
MKP1 Type DC-Link Capacitor (PCB)< 85℃/85%RH /1000h / UNDC > Temperature Humidity Bias(THB) series

■ 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
- 在严苛的环境下（如高温高湿）长期应用容量稳定性优异
- 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 stability of capacitance under severe ambient condition, such as high temperature and high humidity
- 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℃ ~ +105℃
•	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 $U_{N,85^{\circ}\text{C}}$)
额定电压($U_{N,70^{\circ}\text{C}}$) Rated Voltage($U_{N,85^{\circ}\text{C}}$)	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 $\hat{I}$ (A) Maximum peak current $\hat{I}$ (A)	$\hat{I} = C \cdot dV/dt$
预期寿命 Expected life time	100 000 hours @ U_N , $\theta_{hs}=70^{\circ}\text{C}$
耐湿负荷测试 THB test (Damp heat test with loading)	Temperature: $85^{\circ}\text{C} \pm 2^{\circ}\text{C}$; Humidity: $85\% \pm 2\%$ Voltage: $U_{N\text{DC}}$ 50Hz; Duration: 1000h Capacitance change ($\Delta C/C$): ≤10% Dissipation factor change ($\Delta \tan \delta$) ≤0.5% (1kHz) Insulation resistance: ≥50% of the rated value

■ 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				

■ 产品尺寸及性能参数: **Product Dimension and Characteristic Data:**根据产品要求设计, 具体尺寸可与我司技术工程师对标。

U _{NDC} (70℃): 500Vdc/U _{NDC} (85℃): 450Vdc												
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	25	11	27.5	-	0.8	65	10	70	12.0	6.0	MKP1505-2HB00000
6	32	28	14	27.5	-	0.8	65	10	72	10.5	7.0	MKP1605-2HB00000
7	32	28	14	27.5	-	0.8	65	10	74	9.0	8.0	MKP1705-2HB00000
8	32	28	14	27.5	-	0.8	65	10	75	8.0	8.5	MKP1805-2HB00000
9	32	28	14	27.5	-	0.8	65	10	77	7.5	8.5	MKP1905-2HB00000
10	32	30	16	27.5	-	0.8	65	11	78	7.0	9.5	MKP1106-2HB00000
12	32	30	16	27.5	-	0.8	65	11	81	6.0	10.0	MKP1126-2HB00000
15	32	33	18	27.5	-	0.8	65	11	86	5.0	12.0	MKP1156-2HB00000
15	32	33	18	27.5	10.2	0.8	65	10	74	4.5	12.5	MKP1156-2HB02000
20	32	37	22	27.5	-	0.8	65	12	98	4.5	12.0	MKP1206-2HB00000
20	32	37	22	27.5	10.2	0.8	65	11	80	4	15.5	MKP1206-2HB02000
15	42	30	16	37.5	-	1	30	19	167	9.5	9.0	MKP1156-2HF00000
20	42	33.5	18.5	37.5	-	1	30	20	172	7.5	11.0	MKP1206-2HF00000
20	42	33.5	18.5	37.5	10.2	1	30	19	162	7.0	11.5	MKP1206-2HF02000
25	42	40	20	37.5	-	1	30	21	180	6.5	13.0	MKP1256-2HF00000
25	42	40	20	37.5	10.2	1	30	19	166	6.0	13.5	MKP1256-2HF02000
30	42	44	24	37.5	-	1	30	22	192	5.5	14.0	MKP1306-2HF00000
30	42	44	24	37.5	10.2	1	30	20	172	5.0	16.0	MKP1306-2HF02000
35	42	44	24	37.5	-	1	30	22	196	5.0	14.0	MKP1356-2HF00000
35	42	44	24	37.5	10.2	1	30	20	174	4.5	16.5	MKP1356-2HF02000
40	42	45	30	37.5	10.2	1.2	30	20	173	4.0	19.0	MKP1406-2HF02000
40	42	45	30	37.5	20.3	1.2	30	20	173	4.0	19.0	MKP1406-2HF05000
50	42	45	30	37.5	10.2	1.2	30	20	176	3.0	22.0	MKP1506-2HF02000
50	42	45	30	37.5	20.3	1.2	30	20	176	3.0	22.0	MKP1506-2HF05000
60	42	50	30	37.5	10.2	1.2	30	21	181	3.0	22.5	MKP1606-2HF02000
60	42	50	30	37.5	20.3	1.2	30	21	181	3.0	22.5	MKP1606-2HF05000
70	42	55	35	37.5	10.2	1.2	30	22	192	2.5	26.5	MKP1706-2HF02000
70	42	55	35	37.5	20.3	1.2	30	22	192	2.5	26.5	MKP1706-2HF05000
80	42	55	35	37.5	10.2	1.2	30	22	195	2.5	26.5	MKP1806-2HF02000
80	42	55	35	37.5	20.3	1.2	30	22	195	2.5	26.5	MKP1806-2HF05000
70	57	45	30	52.5	10.2	1.2	15	36	333	4.0	21.5	MKP1706-2HM02000
70	57	45	30	52.5	20.3	1.2	15	36	333	4.0	21.5	MKP1706-2HM05000
80	57	50	30	52.5	10.2	1.2	15	36	341	4.0	22.0	MKP1806-2HM02000
80	57	50	30	52.5	20.3	1.2	15	36	341	4.0	22.0	MKP1806-2HM05000
90	57	50	35	52.5	20.3	1.2	15	37	350	3.5	24.5	MKP1906-2HM05000
100	57	50	35	52.5	20.3	1.2	15	37	353	3.0	26.5	MKP1107-2HM05000
110	57	57	35	52.5	20.3	1.2	15	38	362	3.0	28.0	MKP1117-2HM05000

U _{NDC} (70℃): 600Vdc/U _{NDC} (85℃): 500Vdc												
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			
4	32	25	11	27.5	-	0.8	65	9	61	13.0	6.0	MKP1405-1UB00000
5	32	28	14	27.5	-	0.8	65	9	62	10.5	7.0	MKP1505-1UB00000
6	32	28	14	27.5	-	0.8	65	9	64	9.0	8.0	MKP1605-1UB00000
7	32	30	16	27.5	-	0.8	65	9	65	8.0	9.0	MKP1705-1UB00000
8	32	30	16	27.5	-	0.8	65	9	67	7.0	9.5	MKP1805-1UB00000
10	32	33	18	27.5	-	0.8	65	10	70	6.0	10.0	MKP1106-1UB00000
10	32	33	18	27.5	10.2	0.8	65	9	62	5.5	11.5	MKP1106-1UB02000
15	32	37	22	27.5	-	0.8	65	11	81	4.5	10.0	MKP1156-1UB00000
15	32	37	22	27.5	10.2	0.8	65	9	67	4.0	14.5	MKP1156-1UB02000
10	42	30	16	37.5	-	1	30	17	141	12.0	8.0	MKP1106-1UF00000
15	42	33.5	18.5	37.5	-	1	30	17	146	8.5	10.5	MKP1156-1UF00000
15	42	33.5	18.5	37.5	10.2	1	30	17	138	8.0	10.5	MKP1156-1UF02000
20	42	40	20	37.5	-	1	30	18	153	6.5	13.0	MKP1206-1UF00000
20	42	40	20	37.5	10.2	1	30	17	142	6.0	13.5	MKP1206-1UF02000
25	42	44	24	37.5	-	1	30	19	163	5.5	14.0	MKP1256-1UF00000
25	42	44	24	37.5	10.2	1	30	17	147	5.0	16.0	MKP1256-1UF02000
30	42	45	30	37.5	10.2	1.2	30	17	146	4.5	17.5	MKP1306-1UF02000
30	42	45	30	37.5	20.3	1.2	30	17	146	4.5	17.5	MKP1306-1UF05000
35	42	45	30	37.5	10.2	1.2	30	17	148	4.0	19.0	MKP1356-1UF02000
35	42	45	30	37.5	20.3	1.2	30	17	148	4.0	19.0	MKP1356-1UF05000
40	42	50	30	37.5	10.2	1.2	30	18	151	3.5	21.0	MKP1406-1UF02000
40	42	50	30	37.5	20.3	1.2	30	18	151	3.5	21.0	MKP1406-1UF05000
50	42	55	35	37.5	20.3	1.2	30	19	160	3.0	24.5	MKP1506-1UF05000
55	42	55	35	37.5	20.3	1.2	30	19	162	2.5	26.5	MKP1556-1UF05000
50	57	45	30	52.5	10.2	1.2	15	31	283	5.0	19.0	MKP1506-1UM02000
50	57	45	30	52.5	20.3	1.2	15	31	283	5.0	19.0	MKP1506-1UM05000
60	57	50	30	52.5	10.2	1.2	15	31	289	4.5	21.0	MKP1606-1UM02000
60	57	50	30	52.5	20.3	1.2	15	31	289	4.5	21.0	MKP1606-1UM05000
70	57	50	35	52.5	20.3	1.2	15	32	296	4.0	23.0	MKP1706-1UM05000
80	57	57	35	52.5	20.3	1.2	15	33	303	3.5	26.0	MKP1806-1UM05000
90	57	60	40	52.5	20.3	1.2	15	34	318	3.0	29.5	MKP1906-1UM05000
100	57	60	40	52.5	20.3	1.2	15	34	322	3.0	29.5	MKP1107-1UM05000
110	57	60	45	52.5	20.3	1.2	15	35	331	3.0	30.0	MKP1117-1UM05000

U _{NDC} (70℃): 800Vdc/U _{NDC} (85℃): 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			
3	32	25	11	27.5	-	0.8	65	8	53	15.0	5.5	MKP1305-2KB00000
4	32	28	14	27.5		0.8	65	8	51	11.0	7.0	MKP1405-2KB00000
5	32	28	14	27.5	-	0.8	65	8	56	9.5	7.5	MKP1505-2KB00000
6	32	30	16	27.5	-	0.8	65	8	57	8.0	9.0	MKP1605-2KB00000
8	32	33	18	27.5	-	0.8	65	9	61	6.5	10.5	MKP1805-2KB00000
8	32	33	18	27.5	10.2	0.8	65	8	54	6.0	11.0	MKP1805-2KB02000
10	32	37	22	27.5	-	0.8	65	9	66	6.0	12.0	MKP1106-2KB00000
10	32	37	22	27.5	10.2	0.8	65	8	57	5.0	13.0	MKP1106-2KB02000
8	42	30	16	37.5	-	1	30	15	123	13.0	7.5	MKP1805-2KF00000
10	42	33.5	18.5	37.5	-	1	30	15	125	10.5	9.5	MKP1106-2KF00000
10	42	33.5	18.5	37.5	10.2	1	30	15	120	10	9.5	MKP1106-2KF02000
15	42	40	20	37.5	-	1	30	16	132	7.5	12.0	MKP1156-2KF00000
15	42	40	20	37.5	10.2	1	30	15	124	7.0	12.5	MKP1156-2KF02000
20	42	44	24	37.5	-	1	30	17	141	6.0	14.0	MKP1206-2KF00000
20	42	44	24	37.5	10.2	1	30	15	128	5.5	15.0	MKP1206-2KF02000
25	42	45	30	37.5	10.2	1.2	30	15	128	4.5	17.5	MKP1256-2KF02000
25	42	45	30	37.5	20.3	1.2	30	15	128	4.5	17.5	MKP1256-2KF05000
30	42	50	30	37.5	10.2	1.2	30	16	131	4.0	19.5	MKP1306-2KF02000
30	42	50	30	37.5	20.3	1.2	30	16	131	4.0	19.5	MKP1306-2KF05000
40	42	55	35	37.5	10.2	1.2	30	16	138	3.0	24.5	MKP1406-2KF02000
40	42	55	35	37.5	20.3	1.2	30	16	138	3.0	24.5	MKP1406-2KF05000
40	57	45	30	52.5	10.2	1.2	15	27	246	5.5	18.0	MKP1406-2KM02000
40	57	45	30	52.5	20.3	1.2	15	27	246	5.5	18.0	MKP1406-2KM05000
45	57	50	30	52.5	10.2	1.2	15	28	250	5.0	20.0	MKP1456-2KM02000
45	57	50	30	52.5	20.3	1.2	15	28	250	5.0	20.0	MKP1456-2KM05000
50	57	50	35	52.5	20.3	1.2	15	28	254	4.5	21.5	MKP1506-2KM05000
55	57	50	35	52.5	20.3	1.2	15	28	256	4.0	23.0	MKP1556-2KM05000
60	57	57	35	52.5	20.3	1.2	15	29	261	4.0	24.0	MKP1606-2KM05000
65	57	57	35	52.5	20.3	1.2	15	29	262	3.5	26.0	MKP1656-2KM05000
70	57	60	40	52.5	20.3	1.2	15	30	273	3.5	27.0	MKP1706-2KM05000
75	57	60	40	52.5	20.3	1.2	15	30	275	3.5	27.0	MKP1756-2KM05000
80	57	60	45	52.5	20.3	1.2	15	30	281	3.0	30.0	MKP1806-2KM05000
90	57	60	45	52.5	20.3	1.2	15	31	285	3.0	30.0	MKP1906-2KM05000

U _{NDC} (70℃): 900Vdc/U _{NDC} (85℃): 760Vdc												
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	25	11	27.5	-	0.8	70	7	46	19.5	5.0	MKP1205-1XB00000
3	32	28	14	27.5	-	0.8	70	7	48	13.5	6.5	MKP1305-1XB00000
4	32	28	14	27.5	-	0.8	70	8	49	10.5	7.0	MKP1405-1XB00000
5	32	30	16	27.5	-	0.8	70	8	51	9.0	8.5	MKP1505-1XB00000
6	32	33	18	27.5	-	0.8	70	8	53	7.5	9.5	MKP1605-1XB00000
6	32	33	18	27.5	10.2	0.8	70	7	48	7.0	10.0	MKP1605-1XB02000
7	32	37	22	27.5	-	0.8	70	8	56	7.0	11.0	MKP1705-1XB00000
7	32	37	22	27.5	10.2	0.8	70	8	50	6.5	12.0	MKP1705-1XB02000
8	32	37	22	27.5	-	0.8	70	8	58	6.5	11.5	MKP1805-1XB00000
8	32	37	22	27.5	10.2	0.8	70	8	50	6.0	12.0	MKP1805-1XB02000
9	32	37	22	27.5	-	0.8	70	9	59	5.5	12.0	MKP1905-1XB00000
9	32	37	22	27.5	10.2	0.8	70	8	51	5.0	13.0	MKP1905-1XB02000
6	42	30	16	37.5	-	1	35	14	109	15.5	7.0	MKP1605-1XF00000
9	42	33.5	18.5	37.5	-	1	35	14	112	10.5	9.5	MKP1905-1XF00000
9	42	33.5	18.5	37.5	10.2	1	35	13	108	10.0	9.5	MKP1905-1XF02000
12	42	40	20	37.5	-	1	35	14	116	8.5	11.0	MKP1126-1XF00000
12	42	40	20	37.5	10.2	1	35	14	110	8.0	11.5	MKP1126-1XF02000
15	42	44	24	37.5	-	1	35	15	122	7.0	13.5	MKP1156-1XF00000
15	42	44	24	37.5	10.2	1	35	14	113	6.5	14.0	MKP1156-1XF02000
20	42	45	30	37.5	10.2	1.2	35	14	113	5.0	17.0	MKP1206-1XF02000
20	42	45	30	37.5	20.3	1.2	35	14	113	5.0	17.0	MKP1206-1XF05000
25	42	50	30	37.5	10.2	1.2	35	14	116	4.0	19.5	MKP1256-1XF02000
25	42	50	30	37.5	20.3	1.2	35	14	116	4.0	19.5	MKP1256-1XF05000
30	42	55	35	37.5	10.2	1.2	35	15	120	3.5	22.5	MKP1306-1XF02000
35	42	55	35	37.5	20.3	1.2	35	15	122	3.0	24.5	MKP1356-1XF05000
30	57	45	30	52.5	10.2	1.2	15	24	217	6.5	17.0	MKP1306-1XM02000
30	57	45	30	52.5	20.3	1.2	15	24	217	6.5	17.0	MKP1306-1XM05000
35	57	50	30	52.5	10.2	1.2	15	25	221	5.5	19.0	MKP1356-1XM02000
35	57	50	30	52.5	20.3	1.2	15	25	221	5.5	19.0	MKP1356-1XM05000
40	57	50	35	52.5	20.3	1.2	15	25	224	5.0	20.5	MKP1406-1XM05000
45	57	50	35	52.5	20.3	1.2	15	25	226	4.5	21.5	MKP1456-1XM05000
50	57	57	35	52.5	20.3	1.2	15	26	230	4.0	24.0	MKP1506-1XM05000
60	57	60	40	52.5	20.3	1.2	15	26	240	3.5	27.0	MKP1606-1XM05000
70	57	60	45	52.5	20.3	1.2	15	27	247	3.0	30.0	MKP1706-1XG05000

U _{NDC} (70℃): 1000Vdc/U _{NDC} (85℃): 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			
2	32	25	11	27.5	-	0.8	75	7	42	18.0	5.0	MKP1205-3AB00000
3	32	28	14	27.5	-	0.8	75	7	44	12.5	6.5	MKP1305-3AB00000
4	32	30	16	27.5	-	0.8	75	7	45	9.5	8.0	MKP1405-3AB00000
5	32	33	18	27.5	-	0.8	75	7	47	8.0	9.5	MKP1505-3AB00000
5	32	33	18	27.5	10.2	0.8	75	7	43	7.5	9.5	MKP1505-3AB02000
6	32	37	22	27.5	-	0.8	75	8	50	7.5	10.5	MKP1605-3AB00000
6	32	37	22	27.5	10.2	0.8	75	7	45	7.0	11.5	MKP1605-3AB02000
7	32	37	22	27.5	-	0.8	75	8	52	6.5	11.5	MKP1705-3AB00000
7	32	37	22	27.5	10.2	0.8	75	7	45	6.0	12.5	MKP1705-3AB02000
8	32	37	22	27.5	-	0.8	75	8	53	6.0	12.0	MKP1805-3AB00000
8	32	37	22	27.5	10.2	0.8	75	7	46	5.5	13.0	MKP1805-3AB02000
5	42	30	16	37.5	-	1	37	13	98	16.5	7.0	MKP1505-3AF00000
7	42	33.5	18.5	37.5	-	1	37	13	100	12.0	8.5	MKP1705-3AF00000
7	42	33.5	18.5	37.5	10.2	1	37	12	97	11.5	9	MKP1705-3AF02000
10	42	40	20	37.5	-	1	37	13	104	9.0	11.0	MKP1106-3AF00000
10	42	40	20	37.5	10.2	1	37	13	99	8.5	11.0	MKP1106-3AF02000
12	42	44	24	37.5	-	1	37	14	109	8.0	12.5	MKP1126-3AF00000
12	42	44	24	37.5	10.2	1	37	13	101	7.5	13.0	MKP1126-3AF02000
18	42	45	30	37.5	10.2	1.2	37	13	102	5.0	17.0	MKP1186-3AF02000
18	42	45	30	37.5	20.3	1.2	37	13	102	5.0	17.0	MKP1186-3AF05000
20	42	50	30	37.5	10.2	1.2	37	13	103	4.5	18.5	MKP1206-3AF02000
20	42	50	30	37.5	20.3	1.2	37	13	103	4.5	18.5	MKP1206-3AF05000
25	42	55	35	37.5	10.2	1.2	37	13	107	4.0	21.0	MKP1256-3AF02000
25	42	55	35	37.5	20.3	1.2	37	13	107	4.0	21.0	MKP1256-3AF05000
20	57	45	30	52.5	10.2	1.2	17	22	193	8.5	14.5	MKP1206-3AM02000
20	57	45	30	52.5	20.3	1.2	17	22	193	8.5	14.5	MKP1206-3AM05000
25	57	45	30	52.5	10.2	1.2	17	22	195	7.0	16.0	MKP1256-3AM02000
25	57	45	30	52.5	20.3	1.2	17	22	195	7.0	16.0	MKP1256-3AM05000
30	57	50	30	52.5	10.2	1.2	17	22	198	6.0	18.0	MKP1306-3AM02000
30	57	50	30	52.5	20.3	1.2	17	22	198	6.0	18.0	MKP1306-3AM05000
35	57	50	35	52.5	20.3	1.2	17	23	201	5.0	20.5	MKP1356-3AM05000
40	57	57	35	52.5	20.3	1.2	17	23	205	4.5	22.5	MKP1406-3AM05000
50	57	60	40	52.5	20.3	1.2	17	24	214	4.0	25.5	MKP1506-3AM05000
60	57	60	45	52.5	20.3	1.2	17	24	220	3.5	28.0	MKP1606-3AM05000

U _{NDC} (70℃): 1100Vdc/U _{NDC} (85℃): 900Vdc												
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			
1.5	32	25	11	27.5	-	0.8	80	7	38	21.5	4.5	MKP1155-1MB00000
2	32	28	14	27.5	-	0.8	80	7	39	16.5	5.5	MKP1205-1MB00000
3	32	30	16	27.5	-	0.8	80	7	41	11.5	7.5	MKP1305-1MB00000
4	32	33	18	27.5	-	0.8	80	7	42	9.0	9.0	MKP1405-1MB00000
4	32	33	18	27.5	10.2	0.8	80	7	39	8.5	9.0	MKP1405-1MB02000
5	32	37	22	27.5	-	0.8	80	7	45	8.0	10.0	MKP1505-1MB00000
5	32	37	22	27.5	10.2	0.8	80	7	41	7.5	11.0	MKP1505-1MB02000
6	32	37	22	27.5	-	0.8	80	7	47	6.5	11.5	MKP1605-1MB00000
6	32	37	22	27.5	10.2	0.8	80	7	41	6.0	12.0	MKP1605-1MB02000
4	42	30	16	37.5	-	1	40	12	89	19.0	6.5	MKP1405-1ME00000
6	42	33.5	18.5	37.5	-	1	40	12	91	13.0	8.5	MKP1605-1MF00000
6	42	33.5	18.5	37.5	10.2	1	40	12	88	12.5	8.5	MKP1605-1MF02000
8	42	40	20	37.5	-	1	40	12	94	10.0	10.5	MKP1805-1MF00000
8	42	40	20	37.5	10.2	1	40	12	90	9.5	10.5	MKP1805-1MF02000
10	42	44	24	37.5	-	1	40	13	98	8.5	12.0	MKP1106-1MF00000
10	42	44	24	37.5	10.2	1	40	12	92	8.0	12.5	MKP1106-1MF02000
12	42	45	30	37.5	10.2	1.2	40	12	91	6.5	14.5	MKP1126-1MF02000
12	42	45	30	37.5	20.3	1.2	40	12	91	6.5	14.5	MKP1126-1MF05000
15	42	50	30	37.5	10.2	1.2	40	12	93	5.5	16.5	MKP1156-1MF02000
15	42	50	30	37.5	20.3	1.2	40	12	93	5.5	16.5	MKP1156-1MF05000
20	42	55	35	37.5	10.2	1.2	40	12	97	4.5	20.0	MKP1206-1MF02000
20	42	55	35	37.5	20.3	1.2	40	12	97	4.5	20.0	MKP1206-1MF05000
18	57	45	30	52.5	10.2	1.2	20	20	176	8.5	14.5	MKP1186-1MM02000
18	57	45	30	52.5	20.3	1.2	20	20	176	8.5	14.5	MKP1186-1MM05000
22	57	50	30	52.5	10.2	1.2	20	20	178	7.0	16.5	MKP1226-1MM02000
22	57	50	30	52.5	20.3	1.2	20	20	178	7.0	16.5	MKP1226-1MM05000
25	57	50	35	52.5	20.3	1.2	20	21	181	6.5	18.0	MKP1256-1MM05000
30	57	57	35	52.5	20.3	1.2	20	21	184	5.5	20.5	MKP1306-1MM05000
35	57	60	40	52.5	20.3	1.2	20	22	190	5.0	22.5	MKP1356-1MM05000
40	57	60	40	52.5	20.3	1.2	20	22	192	4.5	24.0	MKP1406-1MM05000
45	57	60	45	52.5	20.3	1.2	20	22	196	4.0	26.0	MKP1456-1MM05000

U _{NDC} (70℃): 1200Vdc/U _{NDC} (85℃): 1000Vdc												
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	25	11	27.5	-	0.8	90	6	35	29.5	4.0	MKP1105-3LB00000
2	32	28	14	27.5	-	0.8	90	6	36	15.5	6.0	MKP1205-3LB00000
2.5	32	30	16	27.5	-	0.8	90	6	37	12.5	7.0	MKP1255-3LB00000
3.5	32	33	18	27.5	-	0.8	90	7	39	9.5	8.5	MKP1355-3LB00000
3.5	32	33	18	27.5	10.2	0.8	90	6	36	9.0	9.0	MKP1355-3LB02000
5	32	37	22	27.5	-	0.8	90	7	42	7.5	10.5	MKP1505-3LB00000
5	32	37	22	27.5	10.2	0.8	90	6	38	7.0	11.5	MKP1505-3LB02000
3	42	30	16	37.5	-	1	45	11	81	23.0	5.5	MKP1305-3LF00000
5	42	33.5	18.5	37.5	-	1	45	11	83	14.5	8.0	MKP1505-3LF00000
5	42	33.5	18.5	37.5	10.2	1	45	11	81	14.0	8.0	MKP1505-3LF02000
6	42	40	20	37.5	-	1	45	11	85	12.0	9.5	MKP1605-3LF00000
6	42	40	20	37.5	10.2	1	45	11	82	11.5	9.5	MKP1605-3LF02000
8	42	44	24	37.5	-	1	45	12	89	9.5	11.5	MKP1805-3LF00000
8	42	44	24	37.5	10.2	1	45	11	84	9.0	11.5	MKP1805-3LF02000
9	42	44	24	37.5	-	1	45	12	90	8.5	12.0	MKP1905-3LF00000
9	42	44	24	37.5	10.2	1	45	11	84	8.0	12.5	MKP1905-3LF02000
10	42	45	30	37.5	10.2	1.2	45	11	84	7.0	14.0	MKP1106-3LF02000
10	42	45	30	37.5	20.3	1.2	45	11	84	7.0	14.0	MKP1106-3LF05000
12	42	50	30	37.5	10.2	1.2	45	11	85	6.0	16.0	MKP1126-3LF02000
12	42	50	30	37.5	20.3	1.2	45	11	85	6.0	16.0	MKP1126-3LF05000
15	42	55	35	37.5	10.2	1.2	45	11	87	5.0	18.5	MKP1156-3LF02000
18	42	55	35	37.5	20.3	1.2	45	12	88	4.5	20.0	MKP1186-3LF05000
15	57	45	30	52.5	10.2	1.2	23	19	161	9.0	14.0	MKP1156-3LM02000
15	57	45	30	52.5	20.3	1.2	23	19	161	9.0	14.0	MKP1156-3LM05000
20	57	50	30	52.5	10.2	1.2	23	19	164	7.0	16.5	MKP1206-3LM02000
20	57	50	30	52.5	20.3	1.2	23	19	164	7.0	16.5	MKP1206-3LM05000
22	57	50	35	52.5	20.3	1.2	23	19	165	6.5	18.0	MKP1226-3LM05000
25	57	57	35	52.5	20.3	1.2	23	19	168	6.0	19.5	MKP1256-3LM05000
30	57	60	40	52.5	20.3	1.2	23	20	173	5.0	22.5	MKP1306-3LM05000
35	57	60	45	52.5	20.3	1.2	23	20	177	4.5	24.5	MKP1356-3LM05000

备注:

“-”: 客户要求的容量偏差

ESR 值为 f=10KHz 下的典型值

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。

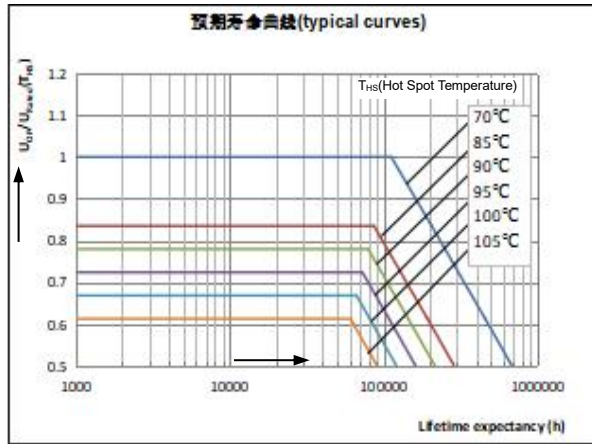
“-”=custom's capacitor tolerance code, J=±5%, K=±10%

ESR typical values at 10KHz

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

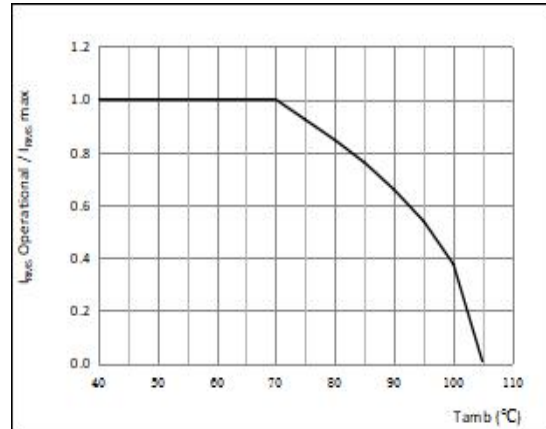
■ 预期寿命曲线

Expected Lifetime Curves:



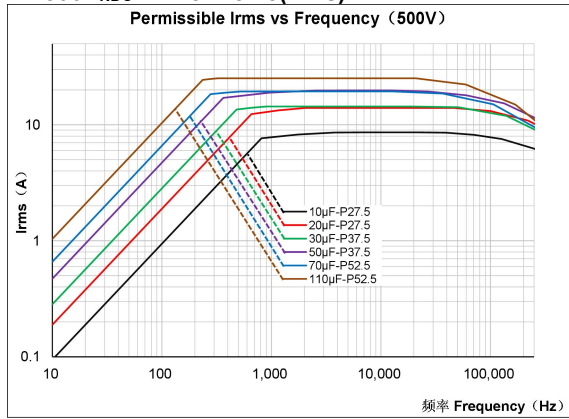
■ 纹波电流降额曲线

I_{RMS} Derating vs Ambient Temperature:

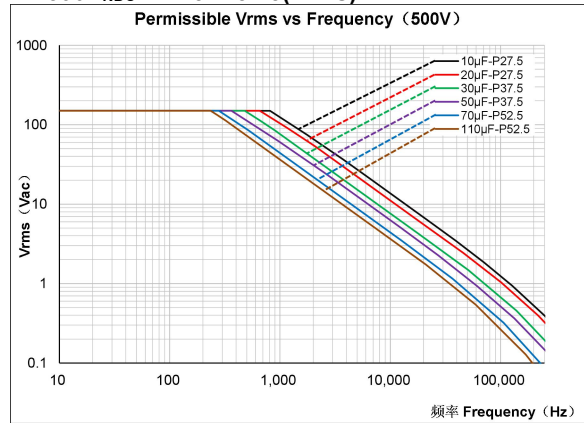


■ 有效值电流频率曲线 Permissible Vrms & Irms vs Frequency

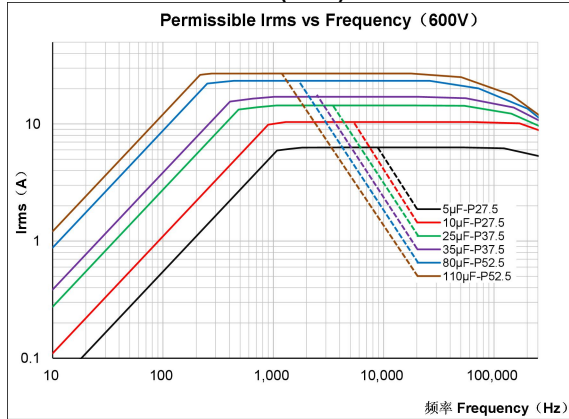
500V_{NDC} P27.5~P52.5(I_{rms})



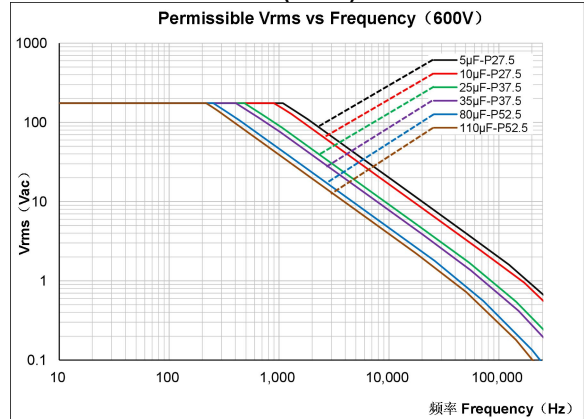
500V_{NDC} P27.5~P52.5(V_{rms})



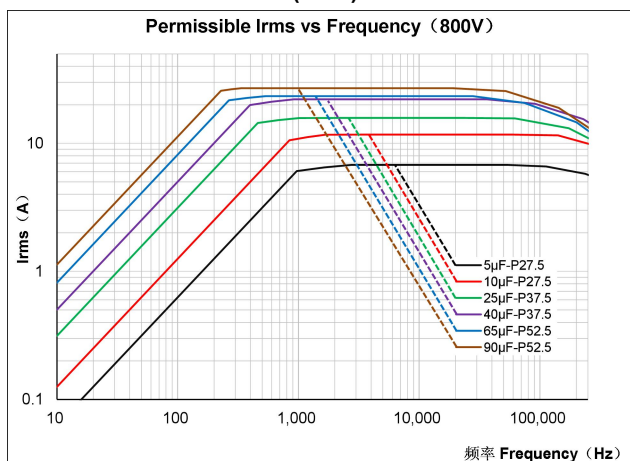
600V_{NDC} P27.5~P52.5(I_{rms})



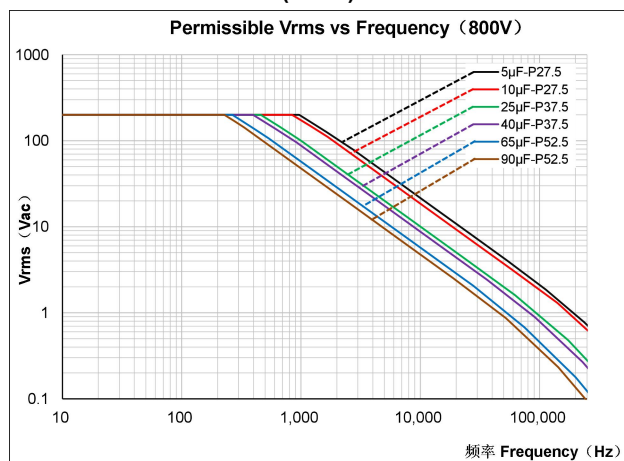
600V_{NDC} P27.5~P52.5(V_{rms})



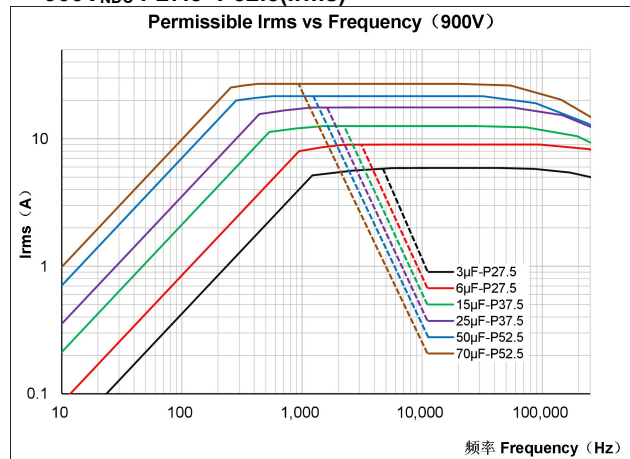
800V_{NDC} P27.5~P52.5(Irms)



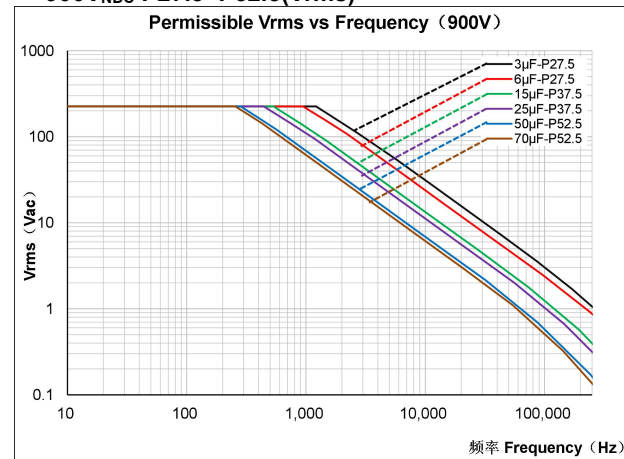
800V_{NDC} P27.5~P52.5(Vrms)



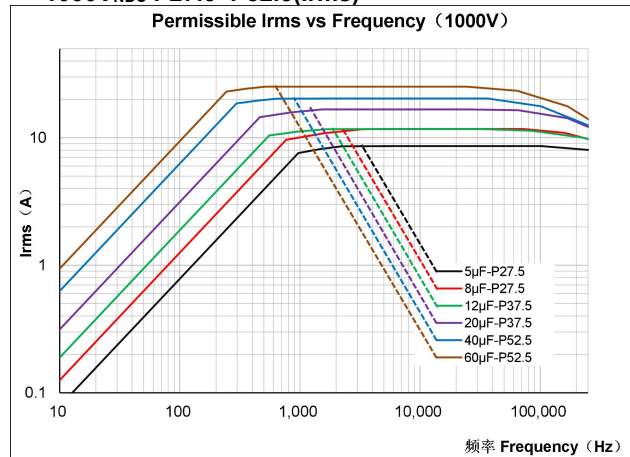
900V_{NDC} P27.5~P52.5(Irms)



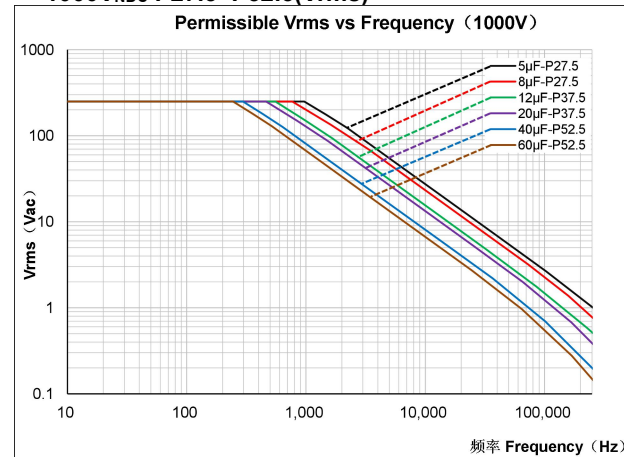
900V_{NDC} P27.5~P52.5(Vrms)



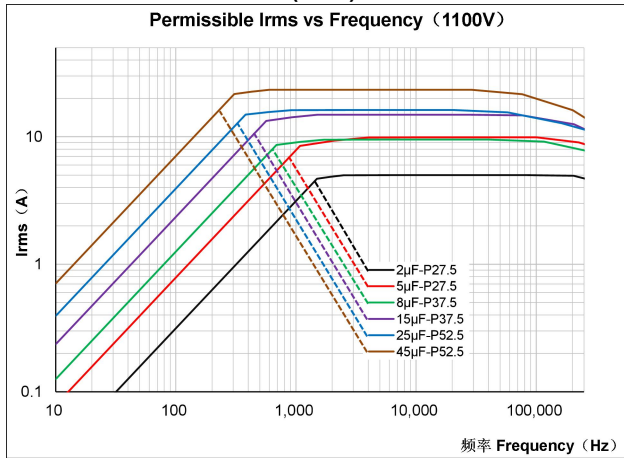
1000V_{NDC} P27.5~P52.5(Irms)



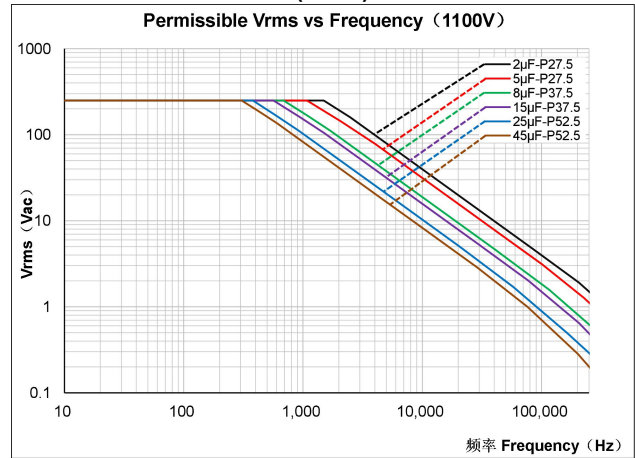
1000V_{NDC} P27.5~P52.5(Vrms)



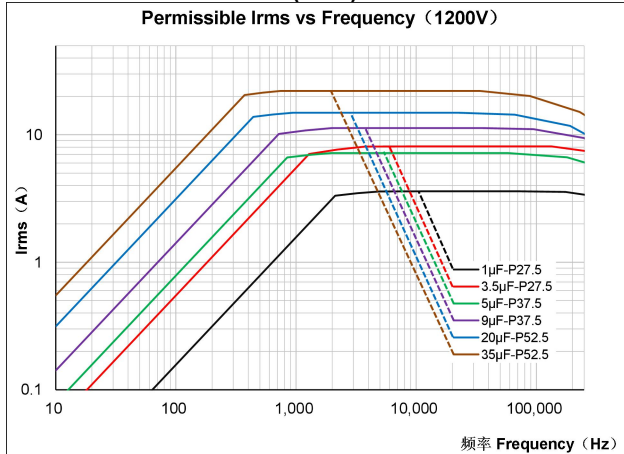
1100V_{NDC} P27.5~P52.5(Irms)



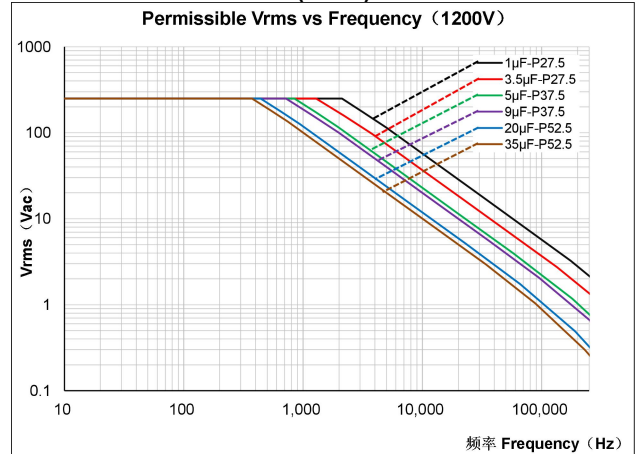
1100V_{NDC} P27.5~P52.5(Vrms)



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 $f \geq 100\text{KHz}$, Irms 和 Vrms 仅供参考。

Note:

Permissible Vrms & Irms curves frequency f at $T_{amb}=70^{\circ}\text{C}$;

Coefficient of heat dissipation: $10\text{W}/\text{m}^2/^{\circ}\text{C}$;

At $f \geq 100\text{KHz}$, Irms & Vrms are only for reference.