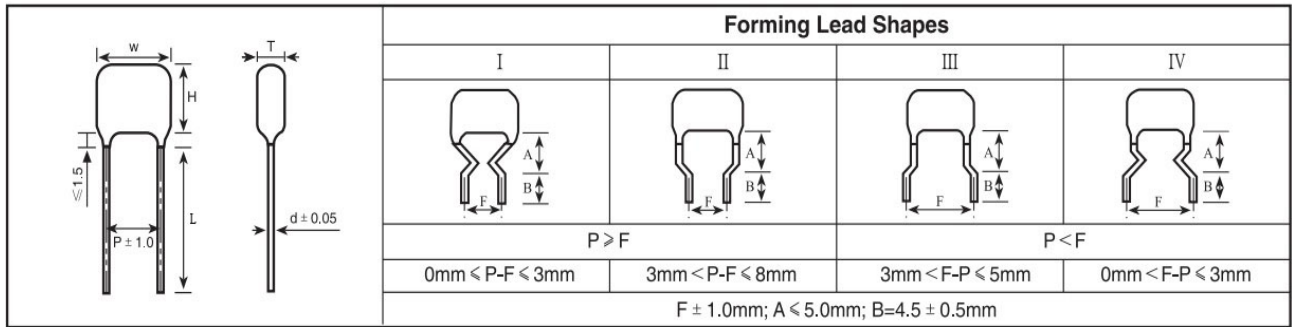


金属化聚丙烯膜电容器(浸渍型)

Metallized Polypropylene (PP) Capacitor (Dipped)

◆外形图 Outline Drawing



◆特性

- 高频损耗小
- 绝缘电阻高
- 内部温升小
- 负温度系数
- 自愈性，性能稳定

◆Features

- Very low dissipation factor at high frequency
- Very high insulation resistance
- Small inherent temperature rise.
- Negative capacitance change versus temperature
- Stable performance due to self-healing property

◆典型应用

主要用于高频应用

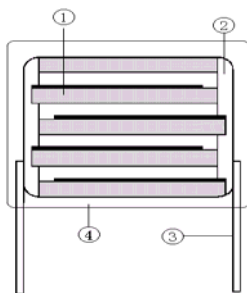
- 广泛用于高频、直流、交流和脉冲电路中。
- 大屏幕显示器，彩电 S 校正电路
- 适合各种高频，大电流应用
- 采样，保持，计时，谐振电路
- 高频去藕，藕合电路
- 电焊机，家电控制板，音响，照明，电源

◆Typical Applications

Generally used for high frequency applications

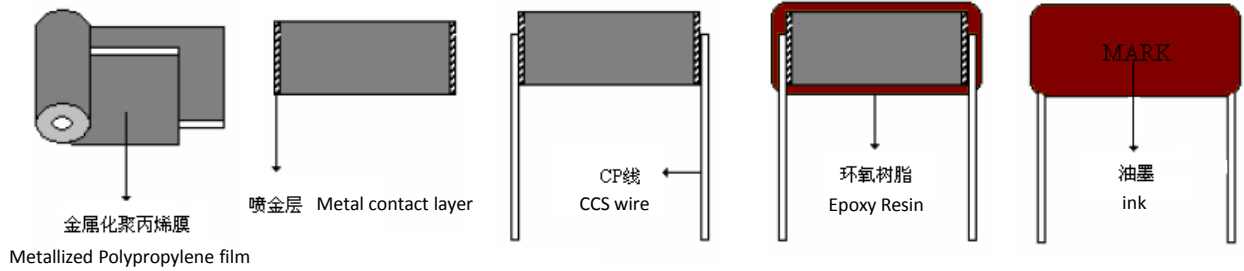
- Widely used in high frequency, DC, AC and pulse circuit
- Large minitor and S-correction circuit for TV-sets
- Suitable for the situation of high frequency and large current
- Sample, hold, timing, oscillating circuit
- High frequency decoupling and coupling
- Welding machine, home appliance, audio, lighting, power supply

◆结构图 structure



- ① 金属化聚丙烯膜
- ② 喷金层
- ③ 镀锡铜包钢线
- ④ 环氧树脂

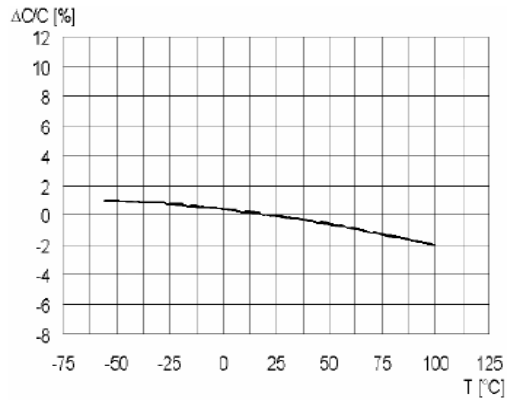
- Metallized Polypropylene film
- Metal contact layer
- Tinned CCS wire
- Epoxy Resin



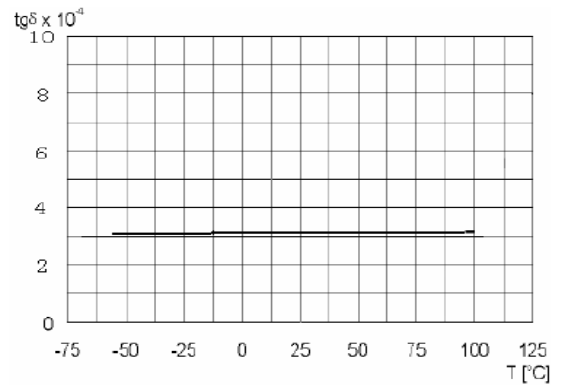
◆性能说 Specification

参考标准 Reference Standards	GB10190-88, GB/T14579 (IEC60384-17)						
额定电压: Rated Voltage(U_R)	100VDC; 250VDC; 400VDC; 630VDC; 1000VDC						
气候类别 Climate Category	40/100/21						
额定温度 Rated Temperature	85℃						
温度范围 Operation Temperature Range	-40℃ - +100℃						
电压降额 Voltage derating	<p>从 85 度到 100 度, 施加的实际电压必须降低, 温度每上升 1 度, 施加在电容上的实际电压必须要比额定电压降低 1.5%, 以此类推。如施加交流电, 则从+75 度开始适用电压降额规则。</p> <p>From +85℃ to +100℃, a voltage derating factor of 1.5% per °C must be applied for DC voltage and from 75℃ for AC voltage.</p>						
电容量范围 Capacitance Range	0.001μF – 8.2μF						
电容量偏差范围 Capacitance Tolerance Range	J(±5%); K(±10%); M (±20%)						
电介质 Dielectric	聚丙烯膜 Polypropylene Film						
电极 Electrode	真空蒸镀电极 Vacuum-deposited						
损耗角正切 Dissipation Factor Tanδ: (1kHz 20℃)	C≤1μF ≤0.1% (10kHz)						
	C>1μF ≤0.1% (1kHz)						
绝缘电阻, 在引出端之间 Insulation Resistance	Cr≤0.33uF		≥100000MΩ			At 20℃, 100V, 1minute	
	Cr>0.33uF		≥30000s				
耐电压 Voltage proof	1.6Ur(5S)						
可靠性 Reliability	工作时间 Operational life>300000 hours (0.5* Ur and 40℃)						
	失效率 Failure rate<2 fit (0.5*Ur and 40℃)						
最大脉冲爬升速率 Maximum pulse rise time (dV/dt) 如实际工作电压 U 比额定电压 Ur 低, 电容器可以工作在更高 dV/dt 的场合, 这样 dV/dt 允许值应为右边值乘以 Ur/U. If the working voltage(U) is lower than rated voltage (Ur), the capacitor can be worked at higher dV/dt. In this case, the maximum allowed dV/dt is obtained by multiplying the right value with Ur/U.	Ur(V)	dV/dt(V/μs)					
		P=7.5	P=10	P=15	P=20	P=25	P=30
	100/160	180	150	110	80	60	-----
	200/250	660	560	310	150	110	
	400	900	780	600	300	180	120
	630	1500	1200	900	400	220	150
1000	2500	2200	-----	-----	-----	-----	

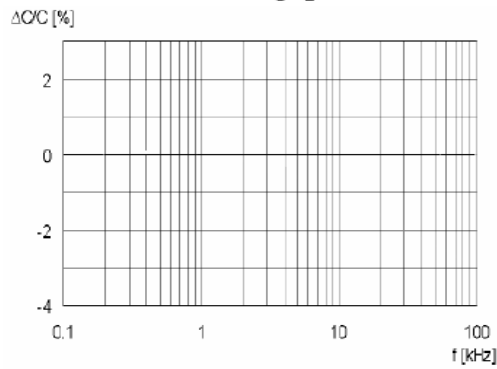
◆ 聚丙烯膜电容器特性曲线 Polypropylene film capacitor characteristic curve



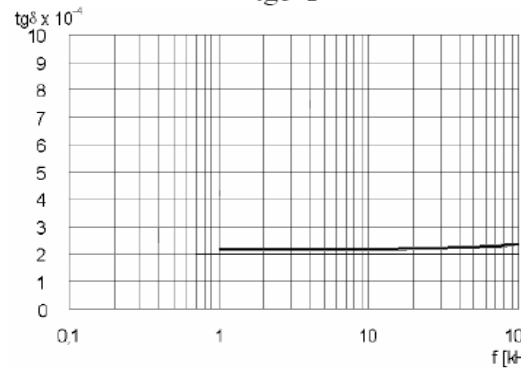
C-T



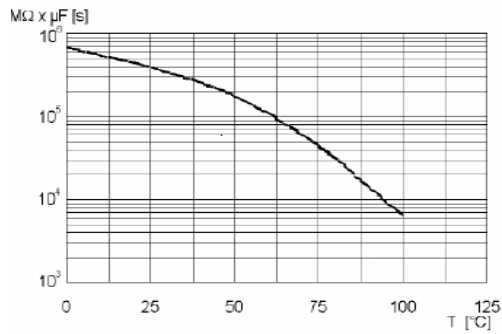
$\text{tg}\delta$ -T



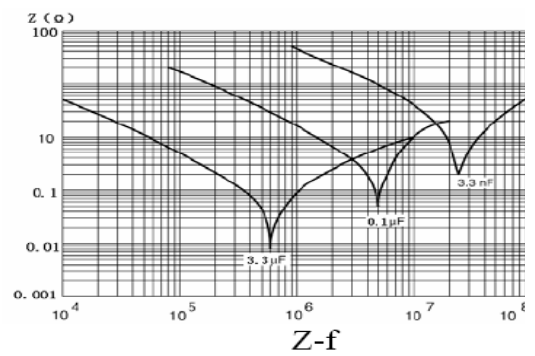
C-f



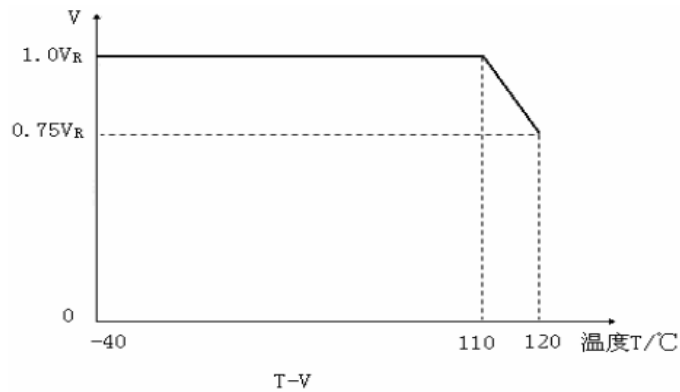
$\text{tg}\delta$ -f



R-T



Z-f



T-V

◆外形尺寸 (mm) 表 Dimension Lists (mm)

Cap Code		Part No	Dimensions (mm)			
			W±1.0	T ±1.0	H±1.0	P±0.5
100VDC(63VAC)/250VDC(106VAC)						
102		CBB21 102K(J)250V	13	3.5	7	10
122		CBB21 122K(J)250V	13	3.5	7	10
152		CBB21 152K(J)250V	13	4	8	10
182		CBB21 182K(J)250V	13	4	8	10
222		CBB21 222K(J)250V	13	4.5	8	10
272		CBB21 272K(J)250V	13	4.5	9	10
332		CBB21 332K(J)250V	13	5	10	10
392		CBB21 392K(J)250V	13	5.5	11	10
472		CBB21 472K(J)250V	13	6	11	10
562		CBB21 562K(J)250V	13	5	10	10
682		CBB21 682K(J)250V	13	5.5	10.5	10
822		CBB21 822K(J)250V	13	4	9	10
103		CBB21 103K(J)250V	13	4	9	10
123		CBB21 123K(J)250V	13	4.5	10	10
153		CBB21 153K(J)250V	13	5	10.5	10
183		CBB21 183K(J)250V	13	5.5	11	10
223		CBB21 223K(J)250VA	10.5	5	8.0	7.5
223		CBB21 223K(J)250VB	18	5	10	15
273		CBB21 273K(J)250VA	13	4.5	9.5	10
273		CBB21 273K(J)250VB	18	5.5	10.5	15
333		CBB21 333K(J)250VA	13	4.5	9.5	10
333		CBB21 333K(J)250VB	18	5.5	10.5	15
393		CBB21 393K(J)250VA	13	5	10	10
393		CBB21 393K(J)250VB	18	6	11	15
473		CBB21 473K(J)250VA	13	4.5	9.5	10
473		CBB21 473K(J)250VB	18	5	10	15
563		CBB21 563K(J)250VA	13	5	10	10
563		CBB21 563K(J)250VB	18	5.5	10.5	15
683		CBB21 683K(J)250VA	13	5.5	10.5	10
683		MPP683K(J)250VB	18	5.5	10.5	15

金属化聚丙烯膜电容器(浸渍型)

Metallized Polypropylene (PP) Capacitor (Dipped)

CBB21 Series



823	MPP823K(J)250VA	13	5	10	10
823	MPP823K(J)250VB	18	6	13	15
104	MPP104K(J)250VA	13	5.5	10.5	10
104	MPP104K(J)250VB	18	6	13	15
124	MPP124K(J)250VA	13	6	11	10
124	MPP124K(J)250VB	18	7	13	15
154	MPP154K(J)250VA	13	6.5	11.5	10
154	MPP154K(J)250VB	18	6	11	15
184	MPP184K(J)250VA	13	6	11	10
184	MPP184K(J)250VB	18	6	12	15
224	MPP224K(J)250VA	13	6.5	11.5	10
224	MPP224K(J)250VB	18	7	13	15
274	MPP274K(J)250VA	18	8	15	15
274	MPP274K(J)250VB	23	7	14	20
334	MPP334K(J)250V	18	7	13.5	15
394	MPP394K(J)250VA	18	7.5	14.5	15
394	MPP394K(J)250VB	23	7	14	20
474	MPP474K(J)250VA	18	6.5	13	15
474	MPP474K(J)250VB	18	8.5	15.5	15
474	MPP474K(J)250VC	23	8	15	20
564	MPP564K(J)250VA	18	7	13.5	15
564	MPP564K(J)250VB	18	9.5	16.5	15
564	MPP564K(J)250VC	23	9.5	15	20
684	MPP684K(J)250VA	18	7.5	14.5	15
684	MPP684K(J)250VB	18	11	17.5	15
684	MPP684K(J)250VC	23	8	15	20
684	MPP684K(J)250VD	29	6.5	11.5	27.5
684	MPP684K(J)250VE	29	7.8	13	27.5
824	MPP824K(J)250VA	18	8	15	15
824	MPP824K(J)250VB	23	9	16	20
105	MPP105K(J)250VA	18	10	16.5	15
105	MPP105K(J)250VB	23	10	17	20
125	MPP125K(J)250V	23	11	19	20
155	MPP155K(J)250VA	23	12	20	20
155	MPP155K(J)250VB	30	10	18	28
185	MPP185K(J)250VA	23	10	18.5	20
185	MPP185K(J)250VB	30	11	19	28
225	MPP225K(J)250VA	23	11	20	20
225	MPP225K(J)250VB	30	12	20.5	28
275	MPP275K(J)250VA	28	11	19	25
275	MPP275K(J)250VB	30	14	22	28
335	MPP335K(J)250VA	28	12	20.5	25

335	MPP335K(J)250VB	30	15	23.5	28
395	MPP395K(J)250VA	28	13	22	25
395	MPP395K(J)250VB	34	15	23	31
475	MPP475K(J)250VA	28	12	21	25
475	MPP475K(J)250VB	34	16	24	31
565	MPP565K(J)250VA	34	14	22	31
565	MPP565K(J)250VB	34	18	26	31
685	MPP685K(J)250V	34	15	24	31
825	MPP825K(J)250V	34	17	25	31
400VDC(200VAC)					
102	MPP102K(J)400V	13	3.5	7	10
122	MPP122K(J)400V	13	3.5	7	10
152	MPP152K(J)400V	13	4	8	10
182	MPP182K(J)400V	13	4	8	10
222	MPP222K(J)400V	13	4.5	8	10
272	MPP272K(J)400V	13	4.5	9	10
332	MPP332K(J)400V	13	5	10	10
392	MPP392K(J)400V	13	5.5	11	10
472	MPP472K(J)400V	13	6	11	10
562	MPP562K(J)400V	13	5	10	10
682	MPP682K(J)400V	13	5.5	10.5	10
822	MPP822K(J)400V	13	4	9	10
103	MPP103K(J)400V	13	4	9	10
123	MPP123K(J)400V	13	4.5	10	10
153	MPP153K(J)400V	13	5	10.5	10
183	MPP183K(J)400V	13	5.5	11	10
223	MPP223K(J)400VA	13	4	8.5	10
223	MPP223K(J)400VB	18	5	10	15
273	MPP273K(J)400VA	13	4.5	9.5	10
273	MPP273K(J)400VB	18	5.5	10.5	15
333	MPP333K(J)400VA	13	4.5	9.5	10
333	MPP333K(J)400VB	18	5.5	10.5	15
393	MPP393K(J)400VA	13	5	10	10
393	MPP393K(J)400VB	18	6	11	15
473	MPP473K(J)400VA	13	4.5	9.5	10
473	MPP473K(J)400VB	18	5	10	15
563	MPP563K(J)400VA	13	5	10	10
563	MPP563K(J)400VB	18	5.5	10.5	15
683	MPP683K(J)400VA	13	5.5	10.5	10
683	MPP683K(J)400VB	18	5.5	10.5	15
823	MPP823K(J)400VA	13	5	10	10
823	MPP823K(J)400VB	18	6	13	15

104	MPP104K(J)400VA	13	5.5	10.5	10
104	MPP104K(J)400VB	18	6	13	15
124	MPP124K(J)400VA	13	6	11	10
124	MPP124K(J)400VB	18	7	13	15
154	MPP154K(J)400VA	13	6.5	11.5	10
154	MPP154K(J)400VB	18	6	11	15
184	MPP184K(J)400VA	13	6	11	10
184	MPP184K(J)400VB	18	6	12	15
224	MPP224K(J)400VA	13	6.5	11.5	10
224	MPP224K(J)400VB	16.5	6.5	11	15
224	MPP224K(J)400VC	18	7	13	15
274	MPP274K(J)400VA	18	8	15	15
274	MPP274K(J)400VB	23	7	14	20
334	MPP334K(J)400V	18	7	13.5	15
394	MPP394K(J)400VA	18	7.5	14.5	15
394	MPP394K(J)400VB	23	7	14	20
474	MPP474K(J)400VA	18	6.5	13	15
474	MPP474K(J)400VB	18	8.5	15.5	15
474	MPP474K(J)400VC	23	8	15	20
564	MPP564K(J)400VA	18	7	13.5	15
564	MPP564K(J)400VB	18	9.5	16.5	15
564	MPP564K(J)400VC	23	9.5	15	20
684	MPP684K(J)400VA	18	7.5	14.5	15
684	MPP684K(J)400VB	18	10.5	17.5	15
684	MPP684K(J)400VC	23	8	15	20
824	MPP824K(J)400VA	18	8	15	15
824	MPP824K(J)400VB	23	9	16	20
105	MPP105K(J)400VA	18	10	16.5	15
105	MPP105K(J)400VB	23	10	17	20
125	MPP125K(J)400V	23	10.5	19	20
155	MPP155K(J)400V	23	12	20	20
155	MPP155K(J)400V	30	10	18	27.5
185	MPP185K(J)400VA	23	10	18.5	20
185	MPP185K(J)400VB	30	11	19	27.5
225	MPP225K(J)400VA	23	11	20	20
225	MPP225K(J)400VB	30	12	20.5	27.5
275	MPP275K(J)400VA	28	11	19	25
275	MPP275K(J)400VB	30	13.5	22	27.5
335	MPP335K(J)400VA	28	12	20.5	25
335	MPP335K(J)400VB	30	15	23.5	27.5
395	MPP395K(J)400VA	28	13	22	25
395	MPP395K(J)400VB	34	14.5	23	31

475	MPP475K(J)400VA	28	12	21	25
475	MPP475K(J)400VB	34	16	24	31
565	MPP565K(J)400VA	34	14	22	31
565	MPP565K(J)400VB	34	18	26	31
685	MPP685K(J)400V	34	15	24	31
825	MPP825K(J)400V	34	17	25	31
630VDC(220VAC)					
102	MPP102K(J)630V	13	3.5	7	10
122	MPP122K(J)630V	13	3.5	7	10
152	MPP152K(J)630V	13	3.5	7	10
182	MPP182K(J)630V	13	4	8	10
222	MPP222K(J)630V	13	4.5	8	10
272	MPP272K(J)630V	13	4.5	9	10
332	MPP332K(J)630V	13	5	10	10
392	MPP392K(J)630V	13	5.5	11	10
472	MPP472K(J)630V	13	6	11	10
562	MPP562K(J)630V	13	5	10	10
682	MPP682K(J)630V	13	5.5	10.5	10
822	MPP822K(J)630V	13	4	9	10
103	MPP103K(J)630V	13	4	9	10
123	MPP123K(J)630V	13	4.5	10	10
153	MPP153K(J)630V	13	5	10.5	10
183	MPP183K(J)630V	13	5.5	11	10
223	MPP223K(J)630VA	13	4	8.5	10
223	MPP223K(J)630VB	18	5	10	15
273	MPP273K(J)630VA	13	4.5	9.5	10
273	MPP273K(J)630VB	18	5.5	10.5	15
333	MPP333K(J)630VA	13	4.5	9.5	10
333	MPP333K(J)630VB	18	5.5	10.5	15
393	MPP393K(J)630VA	13	5	10	10
393	MPP393K(J)630VB	18	6	11	15
473	MPP473K(J)630VA	13	6	11	10
473	MPP473K(J)630VB	18	5	10	15
563	MPP563K(J)630VA	13	6	11	10
563	MPP563K(J)630VB	18	5	11	15
683	MPP683K(J)630VA	13	6	11.5	10
683	MPP683K(J)630VB	18	5.5	10.5	15
823	MPP823K(J)630VA	13	7	13	10
823	MPP823K(J)630VB	18	6	13	15
104	MPP104K(J)630VA	13	8	13	10
104	MPP104K(J)630VB	18	6	13	15
124	MPP124K(J)630V	18	7	13	15

154	MPP154K(J)630VA	17	7	13	15
154	MPP154K(J)630VB	18	8	15	15
154	MPP154K(J)630VC	23	6	12	20
184	MPP184K(J)630VA	18	6	12	15
184	MPP184K(J)630VB	18	9.5	15	15
224	MPP224K(J)630VA	18	8	15	15
224	MPP224K(J)630VB	23	4	14	20
274	MPP274K(J)630VA	18	9.5	16.5	15
274	MPP274K(J)630VB	23	7	14	20
334	MPP334K(J)630VA	18	10.5	17.5	15
334	MPP334K(J)630VB	23	9	16	20
394	MPP394K(J)630VA	18	11.5	18	15
394	MPP394K(J)630VB	23	8	15	20
474	MPP474K(J)630VA	16	9.5	17	15
474	MPP474K(J)630VB	22	9	15.5	20
474	MPP474K(J)630VC	30	9	16	27.5
564	MPP564K(J)630VA	23	12	20	20
564	MPP564K(J)630VB	30	10	17	27.5
684	MPP684K(J)630VA	30	9	17	27.5
684	MPP684K(J)630VB	23	13	21	20
824	MPP824K(J)630VA	30	10	19	27.5
824	MPP824K(J)630VB	23	14	22	20
105	MPP105K(J)630VA	30	11	20	27.5
105	MPP105K(J)630VC	23	16	24	20
125	MPP125K(J)630VA	30	13	21	27.5
125	MPP125K(J)630VB	34	13	21	31
135	MPP135K(J)630V	29	9.3	18.2	20
155	MPP155K(J)630VA	30	14	23	27.5
155	MPP155K(J)630VB	34	15	23	31
185	MPP185K(J)630VA	30	15	24	27.5
185	MPP185K(J)630VB	34	16	24	31
225	MPP225K(J)630VA	29	10	19	27.5
225	MPP225K(J)630VB	30	17	26	27.5
225	MPP225K(J)630V	34	18	26	31
275	MPP275K(J)630VA	30	19.5	28	27.5
275	MPP275K(J)630VB	34	20	28	31
1000VDC/1250VDC(400VAC)					
102	MPP102K(J)1000V	13	3.5	7	10
122	MPP122K(J)1000V	13	3.5	7	10
152	MPP152K(J)1000V	13	3.5	7	10
182	MPP182K(J)1000V	13	4	8	10
222	MPP222K(J)1000V	13	4.5	8	10

272	MPP272K(J)1000V	13	4.5	9	10
332	MPP332K(J)1000V	13	5	10	10
392	MPP392K(J)1000V	13	5.5	11	10
472	MPP472K(J)1000V	13	6	11	10
562	MPP562K(J)1000V	13	5	10	10
682	MPP682K(J)1000V	13	5.5	10.5	10
822	MPP822K(J)1000V	13	4	9	10
103	MPP103K(J)1000V	13	5	9.5	10
123	MPP123K(J)1000V	13	5.5	10.5	10
153	MPP153K(J)1000V	13	5.5	10.5	10
183	MPP183K(J)1000V	13	6.5	11.5	10
223	MPP223K(J)1000V	18	6	11.5	15
273	MPP273K(J)1000V	18	6.5	12.5	15
333	MPP333K(J)1000V	18	7.5	13.5	15
393	MPP393K(J)1000V	18	8	13.5	15
473	MPP473K(J)1000V	18	8	15.5	15
563	MPP563K(J)1000VA	18	9	16.5	15
563	MPP563K(J)1000VB	23	7	14	20
683	MPP683K(J)1000VA	18	10	17	15
683	MPP683K(J)1000VB	23	7.7	14.7	20
823	MPP823K(J)1000VA	18	8.5	15.4	15
823	MPP823K(J)1000VB	23	8.5	15.5	20
104	MPP104K(J)1000VA	18	9.9	16.7	15
104	MPP104K(J)1000VB	23	10	16.7	20
104	MPP104K(J)1000VC	30	7.7	14.6	27.5
124	MPP124K(J)1000VA	18	10.8	17.6	15
124	MPP124K(J)1000VB	23	10.3	18.6	20
124	MPP124K(J)1000VC	30	8.4	15.4	27.5
154	MPP154K(J)1000VA	23	11.6	19.9	20
154	MPP154K(J)1000VB	30	10	16.8	27.5
184	MPP184K(J)1000VA	23	12.7	21.1	20
184	MPP184K(J)1000VB	30	10.3	18.7	27.5
224	MPP224K(J)1000VA	23	14.2	22.5	20
224	MPP224K(J)1000VB	30	11.4	19.8	27.5
274	MPP274K(J)1000V	30	12.8	21.1	27.5
334	MPP334K(J)1000V	30	13.5	23.5	27.5
394	MPP394K(J)1000V	30	14.8	24.8	27.5
474	MPP474K(J)1000V	30	16.4	26.4	27.5