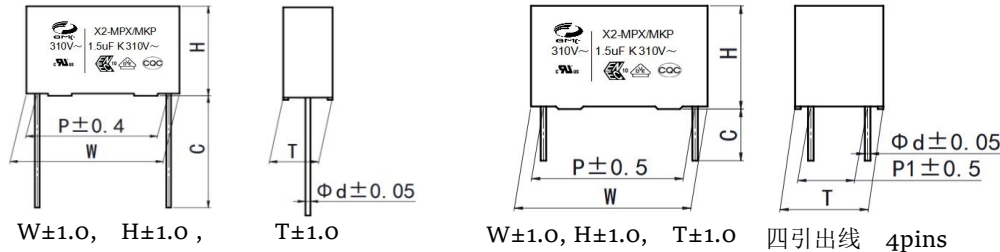
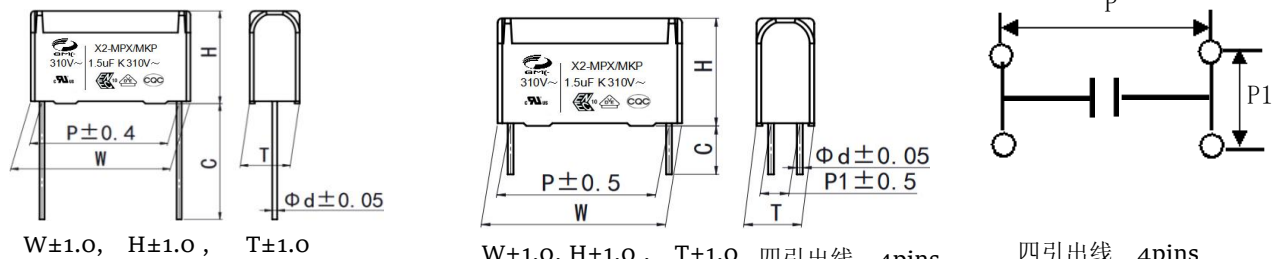


金属化聚丙烯膜抗干扰电容器(X2 类, 250/275/280/310Vac) Metallized polypropylene film Interference Suppression capacitor(Class X2, 250/275/280/310Vac)

■ 外形图 Outline Drawing



方底(Square-bottom)



圆弧底(Arc-bottom)

■ 特点

- 金属化聚丙烯
- 能承受过压冲击
- 优异的阻燃性能
- 用于电源跨线路等抗干扰场合

■ Features

- Metallized polypropylene structure
- Withstanding overvoltage stressing
- Excellent active and passive flame resistant abilities
- Used in across-the-line, interference suppression circuit

■ 安全认证 Safety Approvals

	CQC (中国)	GB/T6346.14-2023, X2, 250/275/280/310Vac, K(±10%) 0.0010μF ~ 15.0μF, 40/110/56/B (Certificate No.): CQC21001303536
	ENEC-VDE (欧盟)	EN 60384-14:2013+A1:2016, X2, 250/275/280/310Vac, K(±10%) 0.0010μF ~ 15.0μF, 40/110/56/B (Certificate No.): 40052899
	UL/CUL (美国/加拿大)	UL 60384-14:2009, X2, 250/275/280/Vac/310Vac, K(±10%) 0.0010μF ~ 15.0μF, 40/110/56/B (File No.): E315567
	KC (韩国)	KC 60384-14(2015-09) KC 60384-14(2015-09), X2, 250/275/280/310Vac, K(±10%) 0.10μF ~ 1.0μF, 40/110/56/B (Certificate No.): SU03094-17001A; SU03094-17002A; SU03094-17003A

■ 技术要求 Specifications

气候类别/阻燃等级 Climatic Category/Passive Flammability Category	40/110/56/B		
工作温度范围 Operating Temperature Range	- 40°C ~ +110°C		
额定电压 Rated Voltage (U _n)	250/275/280/310Vac, 50Hz/60Hz		
最大连续直流电压 Maximum continuous DC voltage	630Vdc		
电容范围 Capacitance Range	0.0010μF ~ 15.0μF		
电容偏差 Capacitance Tolerance	±10%(K), ±20%(M)		
耐电压 Voltage Proof	引线之间 Between Terminals:	4.3U _n (Vdc), 2s	
	极壳之间 Between Terminals To Case:	2UR+1500 (Vac), 1min	
绝缘电阻 Insulation Resistance	R ≥ 15 000MΩ, C _N ≤ 0.33μF	(25°C, 100V, 1min)	
	RC _N ≥ 7 500s, C _N > 0.33μF		
损耗角正切 Dissipation Factor (tanδ)	C _N ≤ 0.47μF	≤ 10 × 10 ⁻⁴ (25°C, 1kHz)	≤ 15 × 10 ⁻⁴ (25°C, 10kHz)
	0.47μF < C _N ≤ 15.0μF	≤ 20 × 10 ⁻⁴ (25°C, 1kHz)	≤ 50 × 10 ⁻⁴ (25°C, 10kHz)
注: 1. 推荐用于电网额定电压不超过250VAC场合; 2. 如果需要用到承载一定纹波电流场合, 如有疑问, 请与我司技术工程师联系 3. 若用于户外或长期湿度较大场合, 建议选用双85防潮设计。	Recommend for max rated supply mains voltage 250Vac application; If used in application which has ripple current applied, If have any questions please contact our technical engineer for more detail; For outdoor or severe humidity condition application, recommend to use THBseries.		

■ 产品编码说明 Part number system

● 27位产品代码如下: The 27 digits part number is formed as follow:

X200.	104	J	2J	15	LL0	3R5	R	2	000	C30
型号	容量	容偏	电压	脚距	脚形	脚长	颜色	线径	特征	壳号
第1~5位	型号代码 X200. = MPX/MKP				Digit 1 to 5	Series code X200. = MPX/MKP				
第6~8位	标称容量 举例: 103=10×10 ³ PF=10nF=0.01μF				Digit 6 to 8	Rated capacitance value for example: 103=10×10p=10nFF=0.01μF				
第9位	容量偏差 J=±5% K=±10% M=±20%				Digit 9	Capacitance tolerance J=±5% K=±10% M=±20%				
第10~11位	交流额定电压 25=250Vac 27=275Vac 31=310Vac				Digit 10 to 11	AC rated voltage 25=250Vac 27=275Vac 31=310Vac				
第12~13位	引线脚距 7P=7.5mm 10=10mm 15=15mm 17=17.5mm 20=20mm 22=22.5mm 27=27.5mm 32=32.5mm 37=37.5mm				Digit 12 to 13	Pitch 7P=7.5mm 10=10mm 15=15mm 17=17.5mm 20=20mm 22=22.5mm 27=27.5mm 32=32.5mm 37=37.5mm				
第14~16位	引脚形状 长直脚=LL0 短直脚=SL0 90°弯脚=RA0				Digit 14 to 16	Pin shape Long straight leads: LL0 Short straight leads: SL0 90° bending:RA0				
第17~19位	引脚长度 2R5=2.5mm 3R5=3.5mm 10R=10mm 100=100mm 000=编带料				Digit 17 to 19	Lead length 2R5=2.5mm 3R5=3.5mm 10R=10mm 100=100mm 000=编带料				
第20位	颜色 红色=R 黄色=Y 灰色=G 黑色=B				Digit 20	Colour Red=R Yellow=Y Gray=G Black=B				
第21位	引线直径 CP: 1=0.6mm 2=0.75mm 3=0.8mm Cμ: A=0.6mm B=0.7mm C=0.75mm				Digit 21	Lead diameter CP: 1=0.6mm 2=0.75mm 3=0.8mm Cμ: A=0.6mm B=0.7mm C=0.75mm				
第22~24位	内部特征 低功耗=P 低温升=T 低噪音=N 高方阻=R 无卤=H 双85=B				Digit 22 to 24	Internal characteristics Low power=P Low temperature rise=T Low noise=N High Square resistance=R Double 85=B				
第25~27位	塑壳代号 B3LT=B3L C5YP-3=C53 D2=D20 D2-1=D21 D5大=D5D E3=E30				Digit 25 to 27	B3LT=B3L C5YP-3=C53 D2=D20 D2-1=D21 D5大=D5D E3=E30				

■ 外形尺寸 (Dimensions)

CN (μ F)	W	H	T	P	d	Part number
0.001	10.0	8.0	4.0	7.5	0.6	X200.102K31****
0.0015	10.0	8.0	4.0	7.5	0.6	X200.152K31****
0.0018	10.0	8.0	4.0	7.5	0.6	X200.182K31****
0.0022	10.0	8.0	4.0	7.5	0.6	X200.222K31****
0.0027	10.0	8.0	4.0	7.5	0.6	X200.272K31****
0.0033	10.0	8.0	4.0	7.5	0.6	X200.332K31****
0.0039	10.0	8.0	4.0	7.5	0.6	X200.392K31****
0.0047	10.0	8.0	4.0	7.5	0.6	X200.472K31****
0.0056	10.0	8.0	4.0	7.5	0.6	X200.562K31****
0.0068	10.0	8.0	4.0	7.5	0.6	X200.682K31****
0.01	10.0	8.0	4.0	7.5	0.6	X200.103K31****
0.012	10.0	8.0	4.0	7.5	0.6	X200.123K31****
0.015	10.0	9.0	4.0	7.5	0.6	X200.153K31****
0.018	10.0	9.0	4.0	7.5	0.6	X200.183K31****
0.022	10.0	9.0	4.0	7.5	0.6	X200.223K31****
0.027	10.0	10.0	5.0	7.5	0.6	X200.273K31****
0.033	10.0	10.0	5.0	7.5	0.6	X200.333K31****
0.033	10.0	12.0	6.0	7.5	0.6	X200.333K31***
0.039	10.0	11.0	5.0	7.5	0.6	X200.393K31****
0.039	10.0	12.0	6.0	7.5	0.6	X200.393K31****
0.047	10.0	11.0	5.0	7.5	0.6	X200.473K31****
0.047	10.0	12.0	6.0	7.5	0.6	X200.473K31****
0.056	10.0	11.0	5.0	7.5	0.6	X200.563K31****
0.056	10.0	12.0	6.0	7.5	0.6	X200.563K31****
0.068	10.0	13.0	7.0	7.5	0.6	X200.683K31****
0.082	10.0	13.0	7.0	7.5	0.6	X200.823K31****

CN (μ F)	W	H	T	P	d	Part number
0.1	10.0	13.0	7.0	7.5	0.6	X200.104K31****
0.1	10.0	14.0	9.5	7.5	0.6	X200.104K31****
0.12	10.0	14.0	9.5	7.5	0.6	X200.124K31****
0.15	10.0	17.0	7.0	7.5	0.6	X200.154K31****
0.15	10.0	14.0	9.5	7.5	0.6	X200.154K31****
0.22	10.0	17.0	7.0	7.5	0.6	X200.224K31****
0.001	13.0	10.0	5.0	10.0	0.6	X200.102K31****
0.0015	13.0	10.0	5.0	10.0	0.6	X200.152K31****
0.0018	13.0	10.0	5.0	10.0	0.6	X200.152K31****
0.0022	13.0	10.0	5.0	10.0	0.6	X200.222K31****
0.0027	13.0	10.0	5.0	10.0	0.6	X200.272K31****
0.0033	13.0	10.0	5.0	10.0	0.6	X200.332K31****
0.0039	13.0	10.0	5.0	10.0	0.6	X200.392K31****
0.0047	13.0	10.0	5.0	10.0	0.6	X200.472K31****
0.0056	13.0	10.0	5.0	10.0	0.6	X200.562K31****
0.0068	13.0	10.0	5.0	7.5	0.6	X200.682K31****
0.0082	13.0	10.0	5.0	7.5	0.6	X200.822K31****
0.01	13.0	9.0	4.0	10.0	0.6	X200.103K31****
0.01	13.0	10.0	5.0	10.0	0.6	X200.103K31****
0.012	13.0	10.0	5.0	10.0	0.6	X200.123K31****
0.015	13.0	10.0	5.0	10.0	0.6	X200.153K31****
0.018	13.0	10.0	5.0	10.0	0.6	X200.183K31****
0.022	13.0	9.0	4.0	10.0	0.6	X200.223K31****
0.022	13.0	10.0	5.0	10.0	0.6	X200.223K31****
0.027	13.0	10.0	5.0	10.0	0.6	X200.273K31****
0.033	13.0	9.0	4.0	10.0	0.6	X200.333K31****

X2-MPX/MKP



CN (μ F)	W	H	T	P	d	Part number
0.033	13.0	10.0	5.0	10.0	0.6	X200.333K31****
0.039	13.0	9.0	4.0	10.0	0.6	X200.393K31****
0.039	13.0	11.0	5.0	10.0	0.6	X200.393K31****
0.047	13.0	9.0	4.0	10.0	0.6	X200.473K31****
0.047	13.0	11.0	5.0	10.0	0.6	X200.473K31****
0.056	13.0	11.0	5.0	10.0	0.6	X200.563K31****
0.068	13.0	11.0	5.0	10.0	0.6	X200.683K31****
0.082	13.0	11.0	5.0	10.0	0.6	X200.823K31****
0.082	13.0	12.0	6.0	10.0	0.6	X200.823K31****
0.1	13.0	11.0	5.0	10.0	0.6	X200.104K31****
0.1	13.0	12.0	6.0	10.0	0.6	X200.104K31****
0.12	13.0	14.0	8.0	10.0	0.6	X200.124K31****
0.15	13.0	14.0	8.0	10.0	0.6	X200.154K31****
0.18	13.0	16.0	8.0	10.0	0.6	X200.184K31****
0.22	13.0	14.0	8.0	10.0	0.6	X200.224K31****
0.22	13.0	16.0	8.0	10.0	0.6	X200.224k31****
0.27	13.0	16.0	8.0	10.0	0.6	X200.274k31****
0.33	13.0	14.0	8.0	10.0	0.6	X200.334k31****
0.33	13.0	16.0	8.0	10.0	0.6	X200.334k31****
0.33	12.5	16.5	10.5	10.0	0.6	X200.334k31****
0.39	12.5	16.5	10.5	10.0	0.6	X200.394k31****
0.47	12.5	16.5	10.5	10.0	0.6	X200.474k31****
0.47	13.0	22.0	11.8	10.0	0.6	X200.474k31****
0.68	13.0	22.0	11.8	10.0	0.6	X200.684k31****
0.01	15.0	11.5	6.0	12.5	0.7	X200.103k31****
0.012	15.0	11.5	6.0	12.5	0.7	X200.123k31****
0.022	15.0	11.5	6.0	12.5	0.7	X200.223k31****

CN (μ F)	W	H	T	P	d	Part number
0.033	15.0	11.5	6.0	12.5	0.7	X200.333k31****
0.039	15.0	11.5	6.0	12.5	0.7	X200.393k31****
0.047	15.0	11.5	6.0	12.5	0.7	X200.473k31****
0.056	15.0	11.5	6.0	12.5	0.7	X200.563k31****
0.068	15.0	11.5	6.0	12.5	0.7	X200.683k31****
0.082	15.0	11.5	6.0	12.5	0.7	X200.823k31****
0.1	15.0	11.5	6.0	12.5	0.7	X200.104k31****
0.12	15.0	11.5	6.0	12.5	0.7	X200.124k31****
0.15	15.0	11.5	6.0	12.5	0.7	X200.154k31****
0.22	15.0	12.5	7.0	12.5	0.7	X200.224k31****
0.33	15.0	14.0	8.5	12.5	0.7	X200.334k31****
0.39	15.0	16.0	10.0	12.5	0.7	X200.394k31****
0.47	15.0	16.0	10.0	12.5	0.7	X200.474k31****
0.56	15.0	17.0	11.0	12.5	0.7	X200.564k31****
0.01	18.0	11.0	5.0	15.0	0.75	X200.103k31****
0.012	18.0	11.0	5.0	15.0	0.75	X200.123k31****
0.015	18.0	11.0	5.0	15.0	0.75	X200.153k31****
0.018	18.0	11.0	5.0	15.0	0.75	X200.183k31****
0.022	18.0	11.0	5.0	15.0	0.75	X200.223k31****
0.027	18.0	11.0	5.0	15.0	0.75	X200.273k31****
0.033	18.0	11.0	5.0	15.0	0.75	X200.333k31****
0.039	18.0	11.0	5.0	15.0	0.75	X200.393k31****
0.047	18.0	11.0	5.0	15.0	0.75	X200.473k31****
0.056	18.0	11.0	5.0	15.0	0.75	X200.563k31****
0.068	18.0	11.0	5.0	15.0	0.75	X200.683k31****
0.082	18.0	11.0	5.0	15.0	0.75	X200.823k31****
0.1	17.5	9.8	5.5	15.0	0.75	X200.104k31****

CN (μ F)	W	H	T	P	d	Part number
0.1	18.0	11.0	5.0	15.0	0.75	X200.104k31****
0.1	18.0	12.0	6.0	15.0	0.75	X200.104k31****
0.12	18.0	12.0	6.0	15.0	0.75	X200.124k31****
0.15	18.0	11.0	5.0	15.0	0.75	X200.154k31****
0.15	18.0	12.0	6.0	15.0	0.75	X200.154k31****
0.18	18.0	12.0	6.0	15.0	0.75	X200.184k31****
0.22	17.5	9.8	5.5	15.0	0.75	X200.224k31****
0.22	18.0	12.0	6.0	15.0	0.75	X200.224k31****
0.22	18.0	13.5	6.5	15.0	0.75	X200.224k31****
0.22	18.0	13.0	7.0	15.0	0.75	X200.224k31****
0.22	18.0	14.5	8.5	15.0	0.75	X200.224k31****
0.27	18.0	14.5	7.5	15.0	0.75	X200.274k31****
0.33	18.0	13.5	6.0	15.0	0.75	X200.334k31****
0.33	18.0	13.5	7.5	15.0	0.75	X200.334k31****
0.33	18.0	14.5	8.5	15.0	0.75	X200.334k31****
0.33	18.0	13.5	10.0	15.0	0.75	X200.334k31****
0.39	18.0	19.0	11.0	15.0	0.75	X200.394k31****
0.47	18.0	14.0	8.0	15.0	0.75	X200.474k31****
0.47	18.0	16.0	10.0	15.0	0.75	X200.474k31****
0.47	18.0	18.0	9.0	15.0	0.75	X200.474k31****
0.47	18.0	19.0	11.0	15.0	0.75	X200.474k31****
0.56	18.0	16.0	10.0	15.0	0.75	X200.564k31****
0.56	18.0	19.0	11.0	15.0	0.75	X200.564k31****
0.68	18.0	16.0	10.0	15.0	0.75	X200.684k31****
0.68	18.0	18.0	9.0	15.0	0.75	X200.684k31****
0.68	18.0	19.0	11.0	15.0	0.75	X200.684k31****

CN (μ F)	W	H	T	P	d	Part number
0.82	18.0	19.2	11.2	15.0	0.75	X200.824k31****
1.0	18.0	19.2	11.2	15.0	0.75	X200.105k31****
1.0	18.0	26.0	16.3	15.0	0.75	X200.105k31****
1.2	18.0	26.0	16.3	15.0	0.75	X200.125k31****
1.5	18.0	21.0	12.5	15.0	0.75	X200.155k31****
1.5	18.0	26.0	16.3	15.0	0.75	X200.155k31****
0.1	26.0	11.0	5.0	22.5	0.8	X200.104k31****
0.1	26.0	14.5	6.0	22.5	0.8	X200.104k31****
0.1	26.0	16.5	7.0	22.5	0.8	X200.104k31****
0.12	26.0	14.5	6.0	22.5	0.8	X200.124k31****
0.15	26.0	11.0	5.0	22.5	0.8	X200.154k31****
0.15	26.0	14.5	6.0	22.5	0.8	X200.154k31****
0.18	26.0	14.5	6.0	22.5	0.8	X200.184k31****
0.22	26.0	12.0	6.0	22.5	0.8	X200.224k31****
0.22	26.0	14.5	6.0	22.5	0.8	X200.224k31****
0.27	26.0	16.5	7.0	22.5	0.8	X200.274k31****
0.33	26.0	12.0	6.0	22.5	0.8	X200.334k31****
0.33	26.0	16.5	7.5	22.5	0.8	X200.334k31****
0.33	26.0	17.0	8.5	22.5	0.8	X200.334k31****
0.39	26.0	16.5	7.5	22.5	0.8	X200.394k31****
0.47	26.0	14.5	6.0	22.5	0.8	X200.474k31****
0.47	26.0	16.5	7.5	22.5	0.8	X200.474k31****
0.47	26.0	17.0	8.5	22.5	0.8	X200.474k31****
0.47	26.0	19.0	10.0	22.5	0.8	X200.474k31****
0.56	26.0	16.5	7.5	22.5	0.8	X200.564k31****
0.56	26.0	17.0	8.5	22.5	0.8	X200.564k31****
0.68	26.0	16.5	7.5	22.5	0.8	X200.684k31****
0.68	26.0	16.5	7.5	22.5	0.8	X200.684k31****

CN (μ F)	W	H	T	P	d	Part number
0.68	26.0	17.0	8.5	22.5	0.8	X200.684k31****
0.68	26.0	19.0	10.0	22.5	0.8	X200.684k31****
0.82	26.0	18.0	9.0	22.5	0.8	X200.824k31****
1.0	26.0	17.0	8.5	22.5	0.8	X200.105k31****
1.0	26.0	20.0	11.0	22.5	0.8	X200.105k31****
1.2	26.0	20.0	11.5	22.5	0.8	X200.125k31****
1.5	26.0	22.0	12.0	22.5	0.8	X200.155k31****
1.8	26.0	24.0	14.0	22.5	0.8	X200.185k31****
2.0	26.0	25.0	15.0	22.5	0.8	X200.205k31****
2.2	26.0	25.0	15.0	22.5	0.8	X200.225k31****
0.47	31.0	18.0	9.0	27.5	0.8	X200.474k31****
0.56	31.0	20.0	10.0	27.5	0.8	X200.564k31****
0.68	31.0	18.0	9.0	27.5	0.8	X200.684k31****
0.68	31.0	20.0	10.0	27.5	0.8	X200.684k31****
0.82	31.0	20.0	11.0	27.5	0.8	X200.824k31****
1.0	31.0	20.0	11.0	27.5	0.8	X200.105k31****
1.2	31.0	18.0	9.0	27.5	0.8	X200.125k31****
1.5	31.0	23.5	14.0	27.5	0.8	X200.155k31****
1.8	31.5	21.6	13.0	27.5	0.8	X200.185k31****
2.0	31.5	21.6	13.0	27.5	0.8	X200.205k31****
2.2	31.5	21.6	13.0	27.5	0.8	X200.225k31****
2.2	31.5	25.0	14.0	27.5	0.8	X200.225k31****
2.2	31.0	26.0	18.0	27.5	0.8	X200.225k31****
2.5	31.5	25.0	14.0	27.5	0.8	X200.255k31****
2.5	31.0	26.0	18.0	27.5	0.8	X200.255k31****
2.7	31.0	26.0	18.0	27.5	0.8	X200.275k31****

CN (μ F)	W	H	T	P	d	Part number
3.0	31.5	25.0	14.0	27.5	0.8	X200.305k31****
3.0	32.0	26.0	18.0	27.5	0.8	X200.305k31****
3.3	31.5	25.0	14.0	27.5	0.8	X200.335k31****
3.3	32.0	26.0	18.0	27.5	0.8	X200.335k31****
3.3	31.5	31.0	22.0	27.5	0.8	X200.335k31****
3.3	31.0	29.0	15.5	27.5	0.8	X200.335k31****
3.5	31.0	28.0	16.0	27.5	0.8	X200.355k31****
3.9	31.0	28.0	19.0	27.5	0.8	X200.395k31****
4.7	31.0	32.5	19.0	27.5	0.8	X200.475k31****
5.0	31.0	34.5	21.0	27.5	0.8	X200.505k31****
5.6	31.0	34.5	21.0	27.5	0.8	X200.565k31****
1.0	37.0	26.3	15.4	32.5	1.0	X2105k31****
1.5	37.0	26.3	15.4	32.5	1.0	X200.155k31****
1.8	37.0	26.3	15.4	32.5	1.0	X200.185k31****
2.0	37.0	26.3	15.4	32.5	1.0	X200.205k31****
2.2	37.0	26.3	15.4	32.5	1.0	X200.225k31****
2.5	37.0	26.3	15.4	32.5	1.0	X200.255k31****
2.7	37.0	26.3	15.4	32.5	1.0	X200.275k31****
3.0	37.0	26.3	15.4	32.5	1.0	X200.305k31****
3.3	37.0	26.3	15.4	32.5	1.0	X200.335k31****
3.5	38.0	28.0	18.0	32.5	1.0	X200.355k31****
3.9	38.0	28.0	18.0	32.5	1.0	X200.395k31****
4.7	38.0	30.0	20.0	32.5	1.0	X200.475k31****
5.0	38.0	30.0	20.0	32.5	1.0	X200.505k31****
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-	-	-	-	-	-	-

