

METALLIZED POLYPROPYLENE FILM CAPACITOR

金属化聚丙烯膜电容器

概述 Overview

应用领域

- 应用于高频、直流、交流、脉冲电路及彩电的 S 校正电路
- 应用于各种高频、大电流场合

参考标准

- GB/T 14579 (IEC 60384-17)

气候类别

- 40/105/21

结构

- 金属化聚丙烯膜，无感卷绕结构
- 阻燃性环氧粉末包封(UL94 V-0)

特点

- 高频损耗小，内部温升小

Application

- Widely used in high frequency, DC, AC pulse circuits and S-correction circuits of colour TV
- Suitable for the situation where applies high frequency and high current pulse

Reference standards

- GB/T 14579 (IEC 60384-17)

Climatic Category

- 40/105/21

Construction

- Metallized polypropylene film, non-inductive structure
- Flame retardant epoxy resin coating (UL94 V-0)

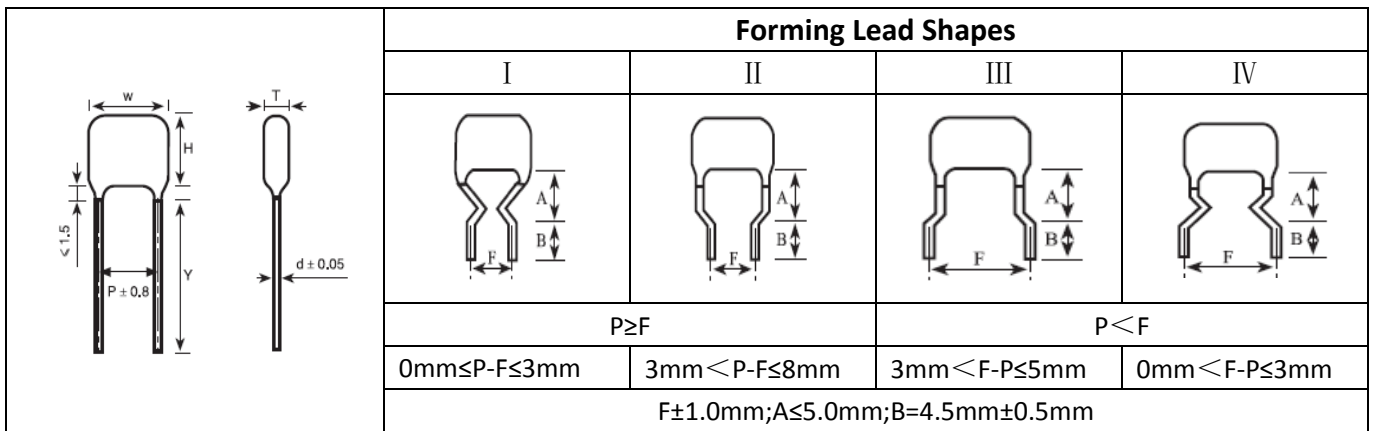
Features

- Low loss at high frequency, Small inherent temperature rise

技术参数 Technical data

额定电压 Rated Voltage	250V,400V,450V,630V
电容量范围 Capacitance Range	0.010μF~3.3μF
额定温度 Rated Voltage	85°C
工作温度范围 Operating Temperature Range	-40°C~105°C (+85°Cto+105°C: decreasing factor 1.25%per°Cfor V _R (dc))
电容器允许偏差 Capacitance Tolerance	±5% (J), ±10% (K), ±20% (M)
耐电压 Voltage Proof	1.6U _R (5S)
介质损耗角正切 Dissipation factor tgδ	≤10*10 ⁻⁴ (20°C, 1kHz)
绝缘电阻 Insulation resistance	≥50000MΩ, C _R ≤0.33μF (20°C, 100V, min) ≥15000S, C _R >0.33μF (20°C, 100V, min)

尺寸图 SIZE



外型尺寸 Dimensions (mm)

250Vdc						
容量 (μF)	W (max)	H (max)	T (max)	P	d	产品代码 Part number
0.010	10.0	10.0	6.0	7.5	0.6	K152E103-6I++
0.015	10.0	9.5	6.0	7.5	0.6	K152E153-6I+
0.022	10.0	9.0	5.5	7.5	0.6	K152E223-6I++
0.033	10.0	10.0	6.0	7.5	0.6	K152E333-6I++
0.047	10.0	10.5	7.0	7.5	0.6	K152E473-6I++
0.056	13.0	10.0	6.5	10.0	0.6	K152E563-6N++
0.068	13.0	10.5	7.0	10.0	0.6	K152E683-6N++
0.082	13.0	10.5	6.0	10.0	0.6	K152E823-6N++
0.10	13.0	11.0	6.5	10.0	0.6	K152E104-6N++
0.15	19.0	12.0	7.0	15.0	0.6	K152E154-6Q++
0.22	19.0	14.0	7.5	15.0	0.6	K152E224-6Q++
0.33	19.0	15.5	9.0	20.0	0.6	K152E334-6S++
0.39	24.0	14.5	8.5	20.0	0.8	K152E394-8S++
0.47	24.0	15.0	9.0	20.0	0.8	K152E474-8S++
0.56	24.0	16.0	10.0	20.0	0.8	K152E564-8S++
0.61	24.0	16.5	10.0	20.0	0.8	K152E624-8S++
0.68	24.0	17.5	10.5	20.0	0.8	K152E684-8S++
0.82	24.0	18.5	11.5	20.0	0.8	K152E824-8S++
1.0	29.0	17.5	9.0	25.0	0.8	K152E105-8V++
1.2	29.0	18.0	10.0	25.0	0.8	K152E125-8V++
1.5	29.0	19.5	11.0	25.0	0.8	K152E155-8V++
1.8	29.0	21.5	11.5	25.0	0.8	K152E185-8V++
2.2	29.0	22.5	12.5	25.0	0.8	K152E225-8V++
2.7	29.0	24.0	14.0	25.0	0.8	K152E275-8V++
3.3	29.0	25.5	15.5	25.0	0.8	K152E335-8V++
4.7	36	26	16	31	0.8	K152E475-8Y++

400Vdc						
容量 (μF)	W (max)	H (max)	T (max)	P	d	产品代码 Part number
0.010	10.0	10.0	6.0	7.5	0.6	K152G103-6I++
0.015	10.0	11.0	7.0	7.5	0.6	K152G153-6I++
0.022	10.0	12.0	8.0	7.5	0.6	K152G223-6I++
0.033	13.0	12.0	7.0	10.0	0.6	K152G333-6N++
0.047	13.0	13.0	8.0	10.0	0.6	K152G473-6N++
0.056	13.0	14.0	8.5	10.0	0.6	K152G563-6N++
0.068	19.0	13.5	6.5	15.0	0.6	K152G683-6Q++
0.082	19.0	13.5	7.0	15.0	0.6	K152G823-6Q++
0.10	19.0	14.5	7.5	15.0	0.6	K152G104-6Q++
0.12	19.0	15.0	8.0	15.0	0.6	K152G124-6Q++
0.15	19.0	15.5	9.0	15.0	0.6	K152G154-6Q++
0.18	24.0	15.0	8.0	20.0	0.8	K152G184-8S++
0.22	24.0	16.0	8.5	20.0	0.8	K152G224-8S++
0.33	24.0	17.5	10.0	20.0	0.8	K152G334-8S++
0.39	29.0	17.0	9.5	25.0	0.8	K152G394-8V++
0.47	29.0	18.5	10.0	25.0	0.8	K152G474-8V++
0.56	29.0	19.5	11.0	25.0	0.8	K152G564-8V++
0.68	29.0	19.5	12.0	25.0	0.8	K152G684-8V++
0.82	34.0	20.5	12.0	30.0	0.8	K152G824-8X++
1.0	34.0	21.5	13.0	30.0	0.8	K152G105-8X++
1.2	28.0	19.1	12.3	25.0	0.8	K152G125-8V++
1.3	28.0	19.6	12.8	25.0	0.8	K152G135-8V++
1.5	28.0	20.7	13.7	25.0	0.8	K152G155-8V++
1.8	28.0	22.2	15.2	25.0	0.8	K152G185-8V++
2.0	28.0	23.1	16.0	25.0	0.8	K152G205-8V++
2.2	28.0	24.0	16.8	25.0	0.8	K152G225-8V++

外型尺寸 Dimensions (mm)

450Vdc						
容量 (μ F)	W (max)	H (max)	T (max)	P	d	产品代码 Part number
0.022	12.5	8.6	5.8	10.0	0.6	K152S223-6N++
0.024	12.5	8.8	6.0	10.0	0.6	K152S243-6N++
0.027	12.5	9.0	6.2	10.0	0.6	K152S273-6N++
0.030	12.5	9.3	6.4	10.0	0.6	K152S303-6N++
0.033	12.5	9.5	6.7	10.0	0.6	K152S333-6N++
0.039	12.5	8.6	5.8	10.0	0.6	K152S393-6N++
0.047	12.5	9.0	6.2	10.0	0.6	K152S473-6N++
0.056	12.5	9.4	6.6	10.0	0.6	K152S563-6N++
0.062	13.0	9.6	6.8	10.0	0.8	K152S623-8N++
0.068	13.0	9.9	7.0	10.0	0.8	K152S683-8N++
0.082	13.0	10.4	7.5	10.0	0.8	K152S823-8N++
0.091	13.0	10.7	7.8	10.0	0.8	K152S913-8N++
0.10	18.0	14.5	7.5	15.0	0.8	K152S104-8Q++
0.12	18.0	15.0	8.0	15.0	0.8	K152S124-8Q++
0.15	18.0	15.5	9.0	15.0	0.8	K152S154-8Q++
0.18	18.0	15.0	8.0	15.0	0.8	K152S184-8Q++
0.22	18.0	16.0	8.5	15.0	0.8	K152S224-8Q++
0.24	18.0	13.0	8.3	15.0	0.8	K152S244-8Q++
0.27	18.0	13.4	8.8	15.0	0.8	K152S274-8Q++
0.30	18.0	13.9	9.2	15.0	0.8	K152S304-8Q++
0.33	18.0	14.3	9.6	15.0	0.8	K152S334-8Q++
0.36	18.0	14.7	9.9	15.0	0.8	K152S364-8Q++
0.39	18.0	15.1	10.3	15.0	0.8	K152S394-8Q++
0.47	18.0	16.1	11.2	15.0	0.8	K152S474-8Q++
0.51	23.0	15.0	8.5	20.0	0.8	K152S514-8S++
0.56	23.0	15.5	9.0	20.0	0.8	K152S564-8S++
0.62	23.0	16.0	10.0	20.0	0.8	K152S624-8S++
0.68	23.0	17.0	10.5	20.0	0.8	K152S684-8S++
0.82	23.0	18.5	11.8	20.0	0.8	K152S824-8S++
0.91	23.0	19.2	12.4	20.0	0.8	K152S914-8S++
1.0	23.0	19.8	13.0	20.0	0.8	K152S105-8S++
1.1	23.0	20.5	13.6	20.0	0.8	K152S115-8S++
1.2	28.0	19.1	12.3	25.0	0.8	K152S125-8V++
1.3	28.0	19.6	12.8	25.0	0.8	K152S135-8V++
1.5	28.0	20.7	13.7	25.0	0.8	K152S155-8V++
1.6	28.0	21.2	14.2	25.0	0.8	K152S165-8V++
1.8	28.0	22.2	15.2	25.0	0.8	K152S185-8V++
2.0	28.0	23.1	16.0	25.0	0.8	K152S205-8V++
2.2	28.0	24.0	16.8	25.0	0.8	K152S225-8V++
2.4	28.0	24.8	17.5	25.0	0.8	K152S245-8V++

630Vdc						
容量 (μ F)	W (max)	H (max)	T (max)	P	d	产品代码 Part number
0.001	10.0	9.0	5.5	7.5	0.6	K152J102-6I++
0.001	10.0	9.0	5.0	7.5	0.6	K152J122-6I++
0.001	10.0	9.0	5.0	7.5	0.6	K152J152-6I++
0.001	10.0	9.0	5.5	7.5	0.6	K152J182-6I++
0.002	10.0	9.0	6.0	7.5	0.6	K152J222-6I++
0.002	10.0	9.0	5.0	7.5	0.6	K152J272-6I++
0.003	10.0	9.0	5.5	7.5	0.6	K152J332-6I++
0.003	10.0	9.0	5.5	7.5	0.6	K152J392-6I++
0.004	10.0	9.5	6.0	7.5	0.6	K152J472-6I++
0.005	10.0	10.0	6.5	7.5	0.6	K152J562-6I++
0.006	12.5	9.0	5.5	10.0	0.6	K152J682-6N++
0.008	12.5	9.0	6.0	10.0	0.6	K152J822-6N++
0.009	12.5	9.5	6.0	10.0	0.6	K152J912-6N++
0.010	13.0	11.0	6.0	10.0	0.6	K152J103-6N++
0.012	13.0	11.5	6.5	10.0	0.6	K152J123-6N++
0.015	13.0	12.0	7.0	10.0	0.6	K152J153-6N++
0.018	13.0	13.0	7.5	10.0	0.6	K152J183-6N++
0.022	13.0	13.5	8.0	10.0	0.6	K152J223-6N++
0.027	19.0	12.0	7.0	15.0	0.6	K152J273-6Q++
0.033	19.0	12.5	7.5	15.0	0.6	K152J333-6Q++
0.039	19.0	13.0	8.0	15.0	0.6	K152J393-6Q++
0.047	19.0	13.5	8.5	15.0	0.6	K152J473-6Q++
0.056	19.0	15.0	8.5	15.0	0.8	K152J563-8Q++
0.068	24.0	14.5	8.0	20.0	0.8	K152J683-8S++
0.082	24.0	15.0	8.5	20.0	0.8	K152J823-8S++
0.091	24.0	15.5	8.5	20.0	0.8	K152J913-8S++
0.10	24.0	16.0	9.0	20.0	0.8	K152J104-8S++
0.12	24.0	16.5	10.0	20.0	0.8	K152J124-8S++
0.15	24.0	17.5	10.5	20.0	0.8	K152J154-8S++
0.18	24.0	19.5	11.0	20.0	0.8	K152J184-8S++
0.22	29.0	19.5	10.0	25.0	0.8	K152J224-8V++
0.27	29.0	20.5	11.5	25.0	0.8	K152J274-8V++
0.33	29.0	22.0	12.0	25.0	0.8	K152J334-8V++
0.39	34.0	20.5	12.5	30.0	0.8	K152J394-8X++
0.47	34.0	22.0	13.5	30.0	0.8	K152J474-8X++
0.56	34.0	23.0	14.5	30.0	0.8	K152J564-8X++
0.68	29.0	19.3	12.7	25.0	0.8	K152J684-8V++
0.82	29.0	20.5	13.9	25.0	0.8	K152J824-8V++
0.91	28.0	21.2	14.6	25.0	0.8	K152J914-8V++
1.0	29.0	22.3	15.5	25.0	0.8	K152J105-8V++

产品编码说明 Part number system

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18
K	1	5															

第 1~3 位	型号代码 K15=CBB21	Digit 1 to 3:	Series code of film capacitor K15=CBB21
第 4~5 位	额定电压 2E=250V,2G=400V,2S=450V, 2J=630V,	Digit 4 to 5:	Rated Voltage 2E=250V,2G=400V,2S=450V, 2J=630V,
第 6~8 位	标称容量 例如: 102=10*10 ² pF=0.001μF	Digit 6 to 8:	Rated capacitance value e.g: 102=10*10 ² pF=0.001μF
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 位	引线线径 d 6=0.6mm,8=0.8mm	Digit 10:	Lead wire diameter d 6=0.6mm,8=0.8mm
第 11 位	引出端脚距 I=7.5mm,N=10mm,Q=15mm, S=20mm,V=25mm,X=30mm	Digit 11:	Pitch I=7.5mm,N=10mm,Q=15mm, S=20mm,V=25mm,X=30mm
第 12~15 位	引线加工及包装代码 (表 2)	Digit 12 to 15:	Lead form and packing codes (figure 2)
第 16 位	引线特征码 (表 1) 例如: A=A 型, B=B 型, C=C 型	Digit 16:	Forming lead shapes (figure 1) e.g: A=A, B=B, C=C
第 17 位	内部特征码	Digit 17:	Internal use

表 1 Figure 1:

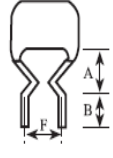
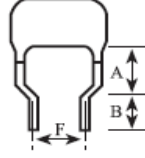
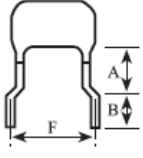
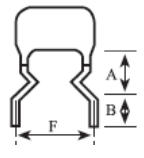
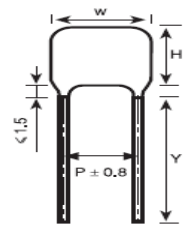
代码 Code	A	B	C	D	E
引线形状 Forming shape					
适用范围 Applicable range	$P \geq F$		$P \leq F$		P
	$0\text{mm} \leq P - F \leq 3\text{mm}$	$3\text{mm} < P - F \leq 8\text{mm}$	$3\text{mm} < F - P \leq 5\text{mm}$	$0\text{mm} < F - P \leq 3\text{mm}$	
尺寸标准 Dimension standards	A $\leq 5.0\text{mm}$; B 允许偏差为 $\pm 0.5\text{mm}$; The permissible tolerance of 'B' is $\pm 0.5\text{mm}$ L 允许偏差为 $\pm 5\text{mm}$; The permissible tolerance of 'L' is $\pm 5\text{mm}$ F 允许偏差为 $\pm 1.0\text{mm}$; The permissible tolerance of 'F' is $\pm 1.0\text{mm}$ P 允许偏差为 $\pm 1.0\text{mm}$ The permissible tolerance of 'P' is $\pm 1.0\text{mm}$				

表 2 引线加工和包装代码 Figure 2: :Lead form and packing codes

第12位 Digit 12		第13位 Digit 13		第14位 Digit 14		第15位 Digit 15	
代码 Code	说明 explanation	代码 Code	说明 explanation	代码 Code	说明 explanation	代码 Code	说明 explanation
A	弹带包装 Ammo-pack	I	F=7.5mm	1	表示弯脚 Kinked	A	产品在连续的两个载带孔之间当引线脚距5/7.5mm时,产品之间的距离为12.7mm,产品底部与载孔距离20mm Each cap. between two consecutive holes P3=12.7mm,H=20.0mm (For pitch 5/7.5mm)
		N	F=10.0mm				
		Q	F=15.0mm				
		S	F=20.0mm	2	表示直脚 Straight	B	载带孔在产品的引线间当引线脚距10/15mm时,产品之间的距离为25.4mm,产品底部与载孔距离20mm Holes between cap P3=25.4mm,H=20.0mm (For pitch 10/15 mm)
		V	F=25.0mm				
		X	F=30.0mm				
F	引线成型 Lead kinked	I	F=7.5mm	0	B=4.5mm	0	B 的长度偏差 $\pm 0.5\text{mm}$ B Length tolerance $\pm 0.5\text{mm}$
		N	F=10.0mm				
		Q	F=15.0mm				
		S	F=20.0mm				
		V	F=25.0mm				
		X	F=30.0mm				
L	直脚包装 Straight lead	代码 Code	说明 explanation	45	引线长度 lead length 4.5mm	0	引线长度偏差 $\pm 0.5\text{mm}$ Length tolerance $\pm 0.5\text{mm}$
		45	引线长度 lead length 4.5mm				

第 12~15 位代码为“K000”时,表示标准引线长度 38mm min When Digit 12 to 15 is K000 means standard lead length is 38mm min