

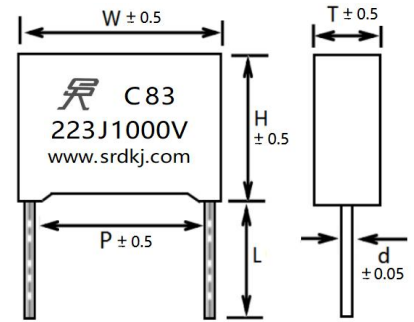
## Metallized Polypropylene Film Capacitors(Box-Type)

### Structure

- Dielectric: Metallized Polypropylene film
- Electrode: Special process metal vacuum evaporation layer.
- Encapsulate: Plastic case (UL94 V-0), Flame retardant epoxy resin sealing.

### Typical Application

- Widely used in high-voltage & high-frequency pulse circuits and resonant circuits of frequency converters.
- Suitable for high-efficiency circuits in LED drivers and switching power supplies.
- Absorption circuits and SCR rectifying circuits.



### Characteristics

- Low dissipation at high frequency, low temperature rise, negative temperature coefficient of capacitance.

### Conform to RoHS standards

### Technical Parameter

Reference Standards	GB/T10190 (IEC 60384-16)	
Climatic Category	40/105/56	
Rated Temperature	85°C	
Operating Temperature Range	-40°C~105°C (+85°C to +105°C: Decreasing Factor 1.25% per °C for U <sub>R</sub> )	
Rated Voltage	400Vdc、630Vdc、1000Vdc、1600Vdc、2000Vdc	
Capacitance Range	0.0015μF ~ 1.0μF	
Capacitance Tolerance	J (±5%)、K (±10%)	
Voltage Proof	1.6U <sub>R</sub> (5s)	
Dissipation Factor	≤0.0010 (1kHz)	20°C, 1V
Insulation Resistance	C <sub>R</sub> ≤0.33μF, R ≥25000 MΩ C <sub>R</sub> >0.33μF, RC ≥7500S	U <sub>R</sub> ≤500V, test voltage:100V, U <sub>R</sub> >500V, test voltage:500V (20°C, 1min)
Note: Products capacitance can be customized. Details specific parameters are according to Approval Sheet.		

## Metallized Polypropylene Film Capacitors(Box-Type)

### Part Number System

15 位产品代码如下:

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15  
 C 8 3 2 2 3 J 3 A D 3 R 8 0 0

Digit 1 to 3	Series Code: C83 = MKP83
Digit 4 to 6	Rated Capacitance Value: 223=22x10 <sup>3</sup> pF=0.022μF
Digit 7	Capacitance Tolerance: J=±5%; K=±10%; M= ±20%
Digit 8 to 9	D.C. Rated Voltage: 2G=400V; 2J=630V; 3A=1000V; 3C=1600V; 3D=2000V
Digit 10 to 11	Dimensions Code: See The Dimension Comparison Table
Digit 12	Color Code: R - Gray; X - Yellow
Digit 13	Lead-wire Diameter Code: 6=0.6、8=0.8、1=1.0
Digit 14 to 15	Internal Recognition Code

### Dimensions (mm) (Rated Voltage: 400VDC)

μF	Part Number	W	T	H	P	d	μF	Part Number	W	T	H	P	d
0.01	C83103J2GB2R600	10	5	11	7.5	0.6	0.082	C83823J2GD2R800	18	6	12	15	0.8
0.012	C83123J2GB2R600	10	5	11	7.5	0.6	0.1	C83104J2GD3R800	18	7.5	13.5	15	0.8
0.015	C83153J2GB2R600	10	5	11	7.5	0.6	0.12	C83124J2GD3R800	18	7.5	13.5	15	0.8
0.018	C83183J2GB2R600	10	5	11	7.5	0.6	0.15	C83154J2GD4R800	18	8.4	14.5	15	0.8
0.022	C83223J2GB3R600	10	6	12	7.5	0.6	0.18	C83184J2GDGR800	17.5	7.2	17.5	15	0.8
0.022	C83223J2GB2R600	10	5	11	7.5	0.6	0.22	C83224J2GDKR800	17.5	8.2	18.5	15	0.8
0.027	C83273J2GB3R600	10	6	12	7.5	0.6	0.22	C83224J2GE2R800	26.5	7	16.5	22.5	0.8
0.027	C83273J2GB2R600	10	5	11	7.5	0.6	0.27	C83274J2GE3R800	26.5	8.5	17	22.5	0.8
0.027	C83273J2GC2R600	13	5	11	10	0.6	0.33	C83334J2GE3R800	26.5	8.5	17	22.5	0.8
0.033	C83333J2GB3R600	10	6	12	7.5	0.6	0.39	C83394J2GE4R800	26.5	10	19	22.5	0.8
0.033	C83333J2GC2R600	13	5	11	10	0.6	0.47	C83474J2GE4R800	26.5	10	19	22.5	0.8
0.039	C83393J2GB3R600	10	6	12	7.5	0.6	0.47	C83474J2GF1R100	31.5	10.8	19.5	27.5	1.0
0.039	C83393J2GCDR600	12.5	5.2	13	10	0.6	0.56	C83564J2GE6R100	26	12	21.5	22.5	1.0
0.047	C83473J2GC3R600	13	6	12	10	0.6	0.56	C83564J2GF1R100	31.5	10.8	19.5	27.5	1.0
0.056	C83563J2GCGR600	12.5	6.2	15.5	10	0.6	0.68	C83684J2GE6R100	26	12	21.5	22.5	1.0
0.056	C83563J2GD2R800	18	6	12	15	0.8	0.68	C83684J2GF1R100	31.5	10.8	19.5	27.5	1.0
0.068	C83683J2GCCGR600	12.5	6.2	15.5	10	0.6	0.82	C83824J2GF2R100	31.5	13	21.5	27.5	1.0
0.068	C83683J2GD2R800	18	6	12	15	0.8	1.0	C83105J2GF3R100	31	14	25	27.5	1.0

## Metallized Polypropylene Film Capacitors(Box-Type)

## ■ Dimensions (mm) (Rated Voltage: 630VDC )

$\mu$ F	Part Number	W	T	H	P	d	$\mu$ F	Part Number	W	T	H	P	d
0.0015	C83152J2JB2R600	10	5	11	7.5	0.6	0.047	C83473J2JD2R800	18	6	12	15	0.8
0.0018	C83182J2JB2R600	10	5	11	7.5	0.6	0.056	C83563J2JD3R800	18	7.5	13.5	15	0.8
0.0022	C83222J2JB2R600	10	5	11	7.5	0.6	0.056	C83563J2JDDR800	17.5	6.2	15.5	15	0.8
0.0027	C83272J2JB2R600	10	5	11	7.5	0.6	0.068	C83683J2JD3R800	18	7.5	13.5	15	0.8
0.0033	C83332J2JB2R600	10	5	11	7.5	0.6	0.068	C83683J2JDDR800	17.5	6.2	15.5	15	0.8
0.0033	C83332J2JC2R600	13	5	11	10	0.6	0.082	C83823J2JD4R800	18	8.4	14.5	15	0.8
0.0039	C83392J2JB2R600	10	5	11	7.5	0.6	0.082	C83823J2JDGR800	17.5	7.2	17.5	15	0.8
0.0039	C83392J2JC2R600	13	5	11	10	0.6	0.1	C83104J2JD5R800	18	9.5	15.5	15	0.8
0.0047	C83472J2JB2R600	10	5	11	7.5	0.6	0.1	C83104J2JDGR800	17.5	7.2	17.5	15	0.8
0.0047	C83472J2JC2R600	13	5	11	10	0.6	0.12	C83124J2JD6R800	18	10	15.8	15	0.8
0.0056	C83562J2JB2R600	10	5	11	7.5	0.6	0.12	C83124J2JDKR800	17.5	8.2	18.5	15	0.8
0.0056	C83562J2JC2R600	13	5	11	10	0.6	0.15	C83154J2JD8R800	18	11.2	19.2	15	0.8
0.0068	C83682J2JB2R600	10	5	11	7.5	0.6	0.15	C83154J2JDNR800	17.5	9.2	19.5	15	0.8
0.0068	C83682J2JC2R600	13	5	11	10	0.6	0.15	C83154J2JE3R800	26.5	8.5	17	22.5	0.8
0.0082	C83822J2JB2R600	10	5	11	7.5	0.6	0.15	C83154J2JF1R100	31.5	10.8	19.5	27.5	1.0
0.0082	C83822J2JC2R600	13	5	11	10	0.6	0.18	C83184J2JDRR800	17.5	10.2	22.5	15	0.8
0.01	C83103J2JB3R600	10	6	12	7.5	0.6	0.18	C83184J2JE3R800	26.5	8.5	17	22.5	0.8
0.01	C83103J2JC2R600	13	5	11	10	0.6	0.18	C83184J2JF1R100	31.5	10.8	19.5	27.5	1.0
0.01	C83103J2JD2R800	18	6	12	15	0.8	0.22	C83224J2JDUR800	17.5	11.2	23.5	15	0.8
0.012	C83123J2JB3R600	10	6	12	7.5	0.6	0.22	C83224J2JE4R800	26.5	10	19	22.5	0.8
0.012	C83123J2JC2R600	13	5	11	10	0.6	0.22	C83224J2JF1R100	31.5	10.8	19.5	27.5	1.0
0.012	C83123J2JD2R800	18	6	12	15	0.8	0.27	C83274J2JE4R800	26.5	10	19	22.5	0.8
0.015	C83153J2JCDR600	12.5	5.2	13	10	0.6	0.27	C83274J2JF1R100	31.5	10.8	19.5	27.5	1.0
0.015	C83153J2JD2R800	18	6	12	15	0.8	0.28	C83284J2JE4R800	26.5	10	19	22.5	0.8
0.018	C83183J2JC2R600	13	5	11	10	0.6	0.28	C83284J2JE6R100	26.5	12	21.5	22.5	1.0
0.018	C83183J2JD2R800	18	6	12	15	0.8	0.33	C83334J2JE6R100	26.5	12	21.5	22.5	1.0
0.022	C83223J2JCDR600	12.5	5.2	13	10	0.6	0.33	C83334J2JF1R100	31.5	10.8	19.5	27.5	1.0
0.022	C83223J2JD2R800	18	6	12	15	0.8	0.39	C83394J2JE6R100	26.5	12	21.5	22.5	1.0
0.027	C83273J2JCGR600	12.5	6.2	15.5	10	0.6	0.39	C83394J2JF1R100	31.5	10.8	19.5	27.5	1.0
0.027	C83273J2JD2R800	18	6	12	15	0.8	0.47	C83474J2JE7R100	26.5	13	23	22.5	1.0
0.033	C83333J2JCGR600	12.5	6.2	15.5	10	0.6	0.47	C83474J2JF2R100	31.5	13	21.6	27.5	1.0
0.033	C83333J2JD2R800	18	6	12	15	0.8	0.56	C83564J2JF2R100	31.5	13	21.6	27.5	1.0
0.039	C83393J2JCKR600	12.5	7.2	17.5	10	0.6	0.68	C83684J2JF3R100	31	14	25	27.5	1.0
0.039	C83393J2JD2R800	18	6	12	15	0.8	0.82	C83824J2JF4R100	31.5	16	25.5	27.5	1.0
0.047	C83473J2JCKR600	12.5	7.2	17.5	10	0.6	1.0	C83105J2JF5R100	31.5	16	30	27.5	1.0

## Metallized Polypropylene Film Capacitors(Box-Type)

## ■ Dimensions (mm) (Rated Voltage: 1000VDC)

μF	Part Number	W	T	H	P	d	μF	Part Number	W	T	H	P	d
0.0015	C83152J3AB2R600	10	5	11	7.5	0.6	0.027	C83273J3AD4R800	18	8.4	14.5	15	0.8
0.0018	C83182J3AB2R600	10	5	11	7.5	0.6	0.033	C83333J3ADGR800	17.5	7.2	17.5	15	0.8
0.0022	C83222J3AB2R600	10	5	11	7.5	0.6	0.039	C83393J3ADGR800	17.5	7.2	17.5	15	0.8
0.0027	C83272J3AB2R600	10	5	11	7.5	0.6	0.047	C83473J3ADKR800	17.5	8.2	18.5	15	0.8
0.0033	C83332J3AB2R600	10	5	11	7.5	0.6	0.056	C83563J3ADKR800	17.5	8.2	18.5	15	0.8
0.0033	C83332J3AC2R600	13	5	11	10	0.6	0.056	C83563J3AECR800	25.5	7	15	22.5	0.8
0.0039	C83392J3AB2R600	10	5	11	7.5	0.6	0.068	C83683J3ADNR800	17.5	9.2	19.5	15	0.8
0.0039	C83392J3AC2R600	13	5	11	10	0.6	0.068	C83683J3AE2R800	26.5	7	16.5	22.5	0.8
0.0047	C83472J3AB3R600	10	6	12	7.5	0.6	0.082	C83823J3ADRR800	17.5	10.2	22.5	15	0.8
0.0047	C83472J3AC2R600	13	5	11	10	0.6	0.082	C83823J3AE3R800	26.5	8.5	17	22.5	0.8
0.0056	C83562J3AB3R600	10	6	12	7.5	0.6	0.1	C83104J3ADUR800	17.5	11.2	23.5	15	0.8
0.0056	C83562J3AC2R600	13	5	11	10	0.6	0.1	C83104J3AEDR800	25.5	7.5	21	22.5	0.8
0.0068	C83682J3AC2R600	13	5	11	10	0.6	0.1	C83104J3AE4R800	26.5	10	19	22.5	0.8
0.0082	C83822J3AC2R600	13	5	11	10	0.6	0.12	C83124J3ADXR800	17.5	12.2	24.5	15	0.8
0.01	C83103J3ACDR600	12.5	5.2	13	10	0.6	0.12	C83124J3AE4R800	26.5	10	19	22.5	0.8
0.01	C83103J3AD2R800	18	6	12	15	0.8	0.15	C83154J3AE5R100	26.5	11	20	22.5	1.0
0.012	C83123J3ACDR600	12.5	5.2	13	10	0.6	0.15	C83154J3AF1R100	31.5	10.8	19.5	27.5	1.0
0.012	C83123J3AD2R800	18	6	12	15	0.8	0.18	C83184J3AE6R100	26.5	12	21.5	22.5	1.0
0.015	C83153J3ACGR600	12.5	6.2	15.5	10	0.6	0.18	C83184J3AF1R100	31.5	10.8	19.5	27.5	1.0
0.015	C83153J3AD2R800	18	6	12	15	0.8	0.22	C83224J3AE7R100	26.5	13	23	22.5	1.0
0.018	C83183J3ACGR600	12.5	6.2	15.5	10	0.6	0.22	C83224J3AF2R100	31.5	13	21.6	27.5	1.0
0.018	C83183J3ADDR800	17.5	6.2	15.5	15	0.8	0.27	C83274J3AF3R100	31	14	25	27.5	1.0
0.022	C83223J3ACKR600	12.5	7.2	17.5	10	0.6	0.33	C83334J3AF3R100	31	14	25	27.5	1.0
0.022	C83223J3ADDR800	17.5	6.2	15.5	15	0.8	0.39	C83394J3AF4R100	31.5	16	25.5	27.5	1.0
0.022	C83223J3AD3R800	18	7.5	13.5	15	0.8	0.47	C83474J3AF5R100	31.5	16	30	27.5	1.0