

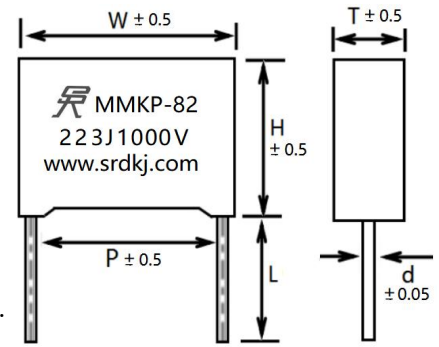
Double sided Metallized Polypropylene Film Capacitors (Box-type)

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 _R)				
Rated voltage	630Vdc、1000Vdc、1600Vdc、2000Vdc				
Capacitance Range	0.001μF ~ 1.0μF				
Capacitance Tolerance	J (±5%)、K (±10%)				
Voltage Proof	1.6U _R (5s)				
Dissipation Factor	≤0.0010 (1kHz)		20°C, 1V		
Insulation resistance	C _R ≤0.33μF, R ≥25000 MΩ C _R >0.33μF, RC ≥7500S		U _R ≤500V, test voltage:100V, U _R >500V, test voltage:500V (20°C, 1min)		
Maximum Pulse Rise Time (dv/dt)	U _R (V)	dv/dt (V/μs)			
		P=10	P=15	P=22.5	P=27.5
	630	3200	2500	1500	900
	1000	6000	3300	2100	1000
	1600	---	6000	3000	2000
2000	---	10000	5000	2200	
Note: Products capacitance can be customized. Details specific parameters are according to Approval Sheet.					

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Part Number System

The 15 digits part number is formed as follow:

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15

C 8 2 2 2 3 J 2 J D 3 R 8 A 0

Digit 1 to 3	Series Code: C82=MMKP-82
Digit 4 to 6	Rated Capacitance Value: 105=10x10 ⁵ pF=1.0μF
Digit 7	Capacitance Tolerance: J=±5%; K=±10%; M= ±20%
Digit 8 to 9	D.C. Rated Voltage: 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
Digit 14 to 15	Internal Recognition Code

Dimensions (mm) (Rated Voltage: 630VDC)

μ F	Part Number	W	T	H	P	d	μ F	Part Number	W	T	H	P	d
0.001	C82102J2JC2R600	13	5	11	10	0.6	0.047	C82473J2JD2R8A0	18	6	12	15	0.8
0.0012	C82122J2JC2R600	13	5	11	10	0.6	0.047	C82473J2JD3R8A0	18	7.5	13.5	15	0.8
0.0015	C82152J2JC2R600	13	5	11	10	0.6	0.056	C82563J2JD3R8A0	18	7.5	13.5	15	0.8
0.0018	C82182J2JC2R600	13	5	11	10	0.6	0.068	C82683J2JD4R8A0	18	8.4	14.5	15	0.8
0.0022	C82222J2JC2R600	13	5	11	10	0.6	0.082	C82823J2JD4R8A0	18	8.4	14.5	15	0.8
0.0027	C82272J2JC2R600	13	5	11	10	0.6	0.1	C82104J2JD6R8A0	18	10	15.8	15	0.8
0.0033	C82332J2JC2R600	13	5	11	10	0.6	0.12	C82124J2JD8R8A0	18	11.2	19.2	15	0.8
0.0039	C82392J2JC2R600	13	5	11	10	0.6	0.12	C82124J2JE2R8A0	26.5	7	16.5	22.5	0.8
0.0047	C82472J2JC2R600	13	5	11	10	0.6	0.15	C82154J2JE3R8A0	26.5	8.5	17	22.5	0.8
0.0056	C82562J2JC2R600	13	5	11	10	0.6	0.18	C82184J2JE3R8A0	26.5	8.5	17	22.5	0.8
0.0068	C82682J2JC2R600	13	5	11	10	0.6	0.22	C82224J2JE4R8A0	26.5	10	19	22.5	0.8
0.0082	C82822J2JC2R600	13	5	11	10	0.6	0.27	C82274J2JE5R8A0	26.5	11	20	22.5	0.8
0.01	C82103J2JC2R600	13	5	11	10	0.6	0.33	C82334J2JE6R8A0	26.5	12	21.5	22.5	0.8
0.01	C82103J2JD2R8A0	18	6	12	15	0.8	0.33	C82334J2JF1R8A0	31.5	10.8	19.5	27.5	0.8
0.012	C82123J2JD2R8A0	18	6	12	15	0.8	0.39	C82394J2JE6R8A0	26.5	12	21.5	22.5	0.8
0.015	C82153J2JD2R8A0	18	6	12	15	0.8	0.39	C82394J2JF1R8A0	31.5	10.8	19.5	27.5	0.8
0.018	C82183J2JD2R8A0	18	6	12	15	0.8	0.47	C82474J2JF2R8A0	31.5	13	21.6	27.5	0.8
0.022	C82223J2JD2R8A0	18	6	12	15	0.8	0.56	C82564J2JF2R8A0	31.5	13	21.6	27.5	0.8
0.027	C82273J2JD2R8A0	18	6	12	15	0.8	0.68	C82684J2JF3R8A0	31	14	25	27.5	0.8
0.033	C82333J2JD2R8A0	18	6	12	15	0.8	0.82	C82824J2JF4R8A0	31.5	16	25.5	27.5	0.8
0.039	C82393J2JD2R8A0	18	6	12	15	0.8	1.0	C82105J2JF6R8A0	31.5	18	33	27.5	0.8

Double sided 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
0.001	C82102J3AC2R600	13	5	11	10	0.6	0.047	C82473J3AD8R8A0	18	11.2	19.2	15	0.8
0.0012	C82122J3AC2R600	13	5	11	10	0.6	0.047	C82473J3AE2R8A0	26.5	7	16.5	22.5	0.8
0.0015	C82152J3AC2R600	13	5	11	10	0.6	0.047	C82473J3AE3R8A0	26.5	8.5	17	22.5	0.8
0.0018	C82182J3AC2R600	13	5	11	10	0.6	0.056	C82563J3AD8R8A0	18	11.2	19.2	15	0.8
0.0022	C82222J3AC2R600	13	5	11	10	0.6	0.056	C82563J3AE2R8A0	26.5	7	16.5	22.5	0.8
0.0027	C82272J3AC2R600	13	5	11	10	0.6	0.068	C82683J3AE3R8A0	26.5	8.5	17	22.5	0.8
0.0033	C82332J3AC2R600	13	5	11	10	0.6	0.068	C82683J3AE4R8A0	26.5	10	19	22.5	0.8
0.0039	C82392J3AC2R600	13	5	11	10	0.6	0.082	C82823J3AE4R8A0	26.5	10	19	22.5	0.8
0.0047	C82472J3AC2R600	13	5	11	10	0.6	0.1	C82104J3AE4R8A0	26.5	10	19	22.5	0.8
0.0056	C82562J3AC2R600	13	5	11	10	0.6	0.1	C82104J3AF1R8A0	31.5	10.8	19.5	27.5	0.8
0.0068	C82682J3AC2R600	13	5	11	10	0.6	0.12	C82124J3AE5R8A0	26.5	11	20	22.5	0.8
0.0082	C82822J3AC2R600	13	5	11	10	0.6	0.12	C82124J3AF1R8A0	31.5	10.8	19.5	27.5	0.8
0.0082	C82822J3AD2R5A0	18	6	12	15	0.8	0.15	C82154J3AE6R8A0	26.0	12	21.5	22.5	0.8
0.01	C82103J3AC2R600	13	5	11	10	0.6	0.15	C82154J3AF1R8A0	31.5	10.8	19.5	27.5	0.8
0.01	C82103J3AD2R8A0	18	6	12	15	0.8	0.18	C82184J3AF2R8A0	31.5	13	21.6	27.5	0.8
0.012	C82123J3AD2R8A0	18	6	12	15	0.8	0.22	C82224J3AF2R8A0	31.5	13	21.6	27.5	0.8
0.015	C82153J3AD2R8A0	18	6	12	15	0.8	0.27	C82274J3AF3R8A0	31	14	25	27.5	0.8
0.018	C82183J3AD3R8A0	18	7.5	13.5	15	0.8	0.33	C82334J3AF4R8A0	31.5	16	25.5	27.5	0.8
0.022	C82223J3AD3R8A0	18	7.5	13.5	15	0.8	0.39	C82394J3AF5R8A0	31.5	16	30	27.5	0.8
0.027	C82273J3AD4R8A0	18	8.4	14.5	15	0.8	0.39	C82394J3AF6R8A0	31.5	18	33	27.5	0.8
0.033	C82333J3AD4R8A0	18	8.4	14.5	15	0.8	0.47	C82474J3AF9R8A0	31.5	18	28	27.5	0.8
0.039	C82393J3AD6R8A0	18	10	15.8	15	0.8	0.47	C82474J3AF6R8A0	31.5	18	33	27.5	0.8

■ Dimensions (mm) (Rated Voltage: 1600VDC)

μF	Part Number	W	T	H	P	d	μF	Part Number	W	T	H	P	d
0.001	C82102J3CD2R8A0	18	6	12	15	0.8	0.0082	C82822J3CD2R8A0	18	6	12	15	0.8
0.0012	C82122J3CD2R8A0	18	6	12	15	0.8	0.01	C82103J3CD2R8A0	18	6	12	15	0.8
0.0015	C82152J3CD2R8A0	18	6	12	15	0.8	0.012	C82123J3CD3R8A0	18	7.5	13.5	15	0.8
0.0018	C82182J3CD2R8A0	18	6	12	15	0.8	0.015	C82153J3CD3R8A0	18	7.5	13.5	15	0.8
0.0022	C82222J3CD2R8A0	18	6	12	15	0.8	0.018	C82183J3CD4R8A0	18	8.4	14.5	15	0.8
0.0027	C82272J3CD2R8A0	18	6	12	15	0.8	0.022	C82223J3CD4R8A0	18	8.4	14.5	15	0.8
0.0033	C82332J3CD2R8A0	18	6	12	15	0.8	0.027	C82273J3CD6R8A0	18	10	15.8	15	0.8
0.0039	C82392J3CD2R8A0	18	6	12	15	0.8	0.027	C82273J3CE2R8A0	26.5	7	16.5	22.5	0.8
0.0047	C82472J3CD2R8A0	18	6	12	15	0.8	0.033	C82333J3CD8R8A0	18	11.2	19.2	15	0.8
0.0056	C82562J3CD2R8A0	18	6	12	15	0.8	0.033	C82333J3CE2R8A0	26.5	7	16.5	22.5	0.8
0.0068	C82682J3CD2R8A0	18	6	12	15	0.8	0.039	C82393J3CE3R8A0	26.5	8.5	17	22.5	0.8

Double sided Metallized Polypropylene Film Capacitors (Box-type)

■ Dimensions (mm) (Rated Voltage: 1600VDC)

μ F	Part Number	W	T	H	P	d	μ F	Part Number	W	T	H	P	d
0.047	C82473J3CE4R8A0	26.5	10	19	22.5	0.8	0.12	C82124J3CF2R8A0	31.5	13	21.6	27.5	0.8
0.056	C82563J3CE4R8A0	26.5	10	19	22.5	0.8	0.15	C82154J3CF3R8A0	31	14	25	27.5	0.8
0.068	C82683J3CE5R8A0	26.5	11	20	22.5	0.8	0.18	C82184J3CF3R8A0	31	14	25	27.5	0.8
0.082	C82823J3CE6R8A0	26.0	12	21.5	22.5	0.8	0.22	C82224J3CF5R8A0	31.5	16	30	27.5	0.8
0.082	C82823J3CF1R8A0	31.5	10.8	19.5	27.5	0.8	0.22	C82224J3CF6R8A0	31.5	18	33	27.5	0.8
0.1	C82104J3CE7R8A0	26.5	13	23	22.5	0.8	0.27	C82274J3CF6R8A0	31.5	18	33	27.5	0.8
0.1	C82104J3CF1R8A0	31.5	10.8	19.5	27.5	0.8	0.33	C82334J3CF6R8A0	31.5	18	33	27.5	0.8

■ Dimensions (mm) (Rated Voltage: 2000VDC)

μ F	Part Number	W	T	H	P	d	μ F	Part Number	W	T	H	P	d
0.001	C82102J3DD2R8A0	18	6	12	15	0.8	0.018	C82183J3DE2R8A0	26.5	7	16.5	22.5	0.8
0.0012	C82122J3DD2R8A0	18	6	12	15	0.8	0.022	C82223J3DE3R8A0	26.5	8.5	17	22.5	0.8
0.0015	C82152J3DD2R8A0	18	6	12	15	0.8	0.027	C82273J3DE4R8A0	26.5	10	19	22.5	0.8
0.0018	C82182J3DD2R8A0	18	6	12	15	0.8	0.033	C82333J3DE4R8A0	26.5	10	19	22.5	0.8
0.0022	C82222J3DD2R8A0	18	6	12	15	0.8	0.039	C82393J3DE5R8A0	26.5	11	20	22.5	0.8
0.0027	C82272J3DD2R8A0	18	6	12	15	0.8	0.039	C82393J3DF1R8A0	31.5	10.8	19.5	27.5	0.8
0.0033	C82332J3DD2R8A0	18	6	12	15	0.8	0.047	C82473J3DE6R8A0	26.0	12	21.5	22.5	0.8
0.0039	C82392J3DD2R8A0	18	6	12	15	0.8	0.047	C82473J3DF1R8A0	31.5	10.8	19.5	27.5	0.8
0.0047	C82472J3DD2R8A0	18	6	12	15	0.8	0.056	C82563J3DF2R8A0	31.5	13	21.6	27.5	0.8
0.0056	C82562J3DD3R8A0	18	7.5	13.5	15	0.8	0.068	C82683J3DF2R8A0	31.5	13	21.6	27.5	0.8
0.0068	C82682J3DD3R8A0	18	7.5	13.5	15	0.8	0.082	C82823J3DF3R8A0	31	14	25	27.5	0.8
0.0082	C82822J3DD4R8A0	18	8.4	14.5	15	0.8	0.1	C82104J3DF4R8A0	31.5	16	25.5	27.5	0.8
0.01	C82103J3DD6R8A0	18	10	15.8	15	0.8	0.12	C82124J3DF4R8A0	31.5	16	25.5	27.5	0.8
0.012	C82123J3DD6R8A0	18	10	15.8	15	0.8	0.12	C82124J3DF6R8A0	31.5	18	33	27.5	0.8
0.015	C82153J3DD8R8A0	18	11.2	19.2	15	0.8	0.15	C82154J3DF5R8A0	31.5	16	30	27.5	0.8
0.015	C82153J3DE2R8A0	26.5	7	16.5	22.5	0.8	0.15	C82154J3DF6R8A0	31.5	18	33	27.5	0.8