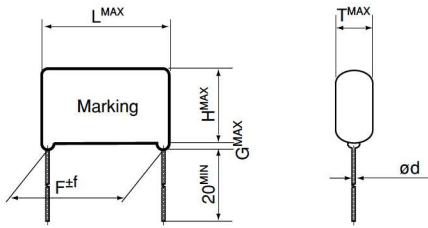


PLASTIC FILM CAPACITORS

MDDS Series, MDD Series (Standard Type Metallized Polyester Capacitors)

Outline of drawings and dimensions



G : 1.0 mm when F Dimension is less than 7.5 mm.
1.5 mm when F Dimension is less than 10 mm.

Product Specifications

Items	Specifications
Temperature range	-40°C to +105°C (with derating over 85°C)
Rated voltage	100 to 630 V.DC
Capacitance tolerance	±5% (J), ±10% (K), ±20% (M)
Dielectric dissipation factor	Less than 0.8% (20°C, 1KHz)
Withstanding voltage	Between terminals rated volt (V.DC) × 1.5 1min. Between terminal and outside covering Rated volt (V.DC) × 2.0/1 to 5sec.
Insulation resistance	$C_r \leq 0.33\mu\text{F}$ More than 9,000MΩ $C_r > 0.33\mu\text{F}$ More than 3,000Ω·μF
Others	Subject to JIS C 5115 and JIS C 5102.

Standard value and case size

(Unit : mm)

Capacitance μF Code	MDDS								MDD																							
	100V.DC (2A)								250V.DC (2E)								400V.DC (2G)								630V.DC (2J)							
	T	H	L	F	f	d	T	H	L	F	f	d	T	H	L	F	f	d	T	H	L	F	f	d								
0.010 103							4.5	7.5	10.5	7.5	0.75	0.6	4.5	7.5	10.5	7.5	0.75	0.6	4.5	8.5	15.0	12.5	1.5	0.6								
0.012 123							4.5	8.0	10.5	7.5	0.75	0.6	4.5	8.0	10.5	7.5	0.75	0.6	4.5	8.5	15.0	12.5	1.5	0.6								
0.015 153							4.5	8.0	10.5	7.5	0.75	0.6	4.5	8.0	10.5	7.5	0.75	0.6	5.0	9.0	15.0	12.5	1.5	0.6								
0.018 183							4.5	8.0	10.5	7.5	0.75	0.6	4.5	8.0	15.0	12.5	1.5	0.6	5.5	9.5	15.0	12.5	1.5	0.6								
0.022 223	4.5	7.5	10.5	7.5	0.75	0.6	4.5	8.0	10.5	7.5	0.75	0.6	4.5	8.5	15.0	12.5	1.5	0.6	5.5	10.5	15.0	12.5	1.5	0.6								
0.027 273	4.5	7.5	10.5	7.5	0.75	0.6	5.0	8.5	10.5	7.5	0.75	0.6	5.0	9.0	15.0	12.5	1.5	0.6	6.5	10.5	15.0	12.5	1.5	0.6								
0.033 333	4.5	7.5	10.5	7.5	0.75	0.6	5.5	9.0	10.5	7.5	0.75	0.6	5.5	9.5	15.0	12.5	1.5	0.6	7.0	11.0	15.0	12.5	1.5	0.6								
0.039 393	4.5	7.5	10.5	7.5	0.75	0.6	5.5	9.0	10.5	7.5	0.75	0.6	6.0	10.0	15.0	12.5	1.5	0.6	6.0	10.5	20.0	17.5	1.5	0.6								
0.047 473	4.5	7.5	10.5	7.5	0.75	0.6	5.5	9.5	13.0	10.0	1.5	0.6	6.5	10.5	15.0	12.5	1.5	0.6	6.0	11.0	20.0	17.5	1.5	0.6								
0.056 563	4.5	7.5	10.5	7.5	0.75	0.6	6.0	10.0	13.0	10.0	1.5	0.6	7.0	11.0	15.0	12.5	1.5	0.6	6.5	11.5	20.0	17.5	1.5	0.6								
0.068 683	4.5	7.5	10.5	7.5	0.75	0.6	5.5	9.5	15.0	12.5	1.5	0.6	7.5	11.5	15.0	12.5	1.5	0.6	7.0	12.0	20.0	17.5	1.5	0.6								
0.082 823	4.5	7.5	10.5	7.5	0.75	0.6	5.5	10.5	15.0	12.5	1.5	0.6	6.0	11.0	20.0	17.5	1.5	0.6	8.0	12.5	20.0	17.5	1.5	0.6								
0.10 104	4.5	7.5	10.5	7.5	0.75	0.6	6.0	11.0	15.0	12.5	1.5	0.6	6.5	11.5	20.0	17.5	1.5	0.6	8.5	14.5	20.0	17.5	1.5	0.6								
0.12 124	5.0	8.5	10.5	7.5	0.75	0.6	6.5	11.5	15.0	12.5	1.5	0.6	7.0	12.0	20.0	17.5	1.5	0.6	9.0	15.5	20.0	17.5	1.5	0.8								
0.15 154	5.5	9.0	10.5	7.5	0.75	0.6	7.0	12.0	15.0	12.5	1.5	0.6	8.0	13.0	20.0	17.5	1.5	0.6	8.5	14.0	29.0	25.0	1.5	0.8								
0.18 184	4.5	9.0	13.0	10.0	0.75	0.6	7.5	12.5	15.0	12.5	1.5	0.6	8.0	14.5	20.0	17.5	1.5	0.6	9.0	15.5	29.0	25.0	1.5	0.8								
0.22 224	5.0	9.5	13.0	10.0	0.75	0.6	6.5	11.5	20.0	17.5	1.5	0.6	8.5	15.0	20.0	17.5	1.5	0.6	9.0	16.0	29.0	25.0	1.5	0.8								
0.27 274	5.5	9.5	13.0	10.0	0.75	0.6	7.0	12.0	20.0	17.5	1.5	0.6	9.5	16.0	20.0	17.5	1.5	0.6	9.0	18.5	29.0	25.0	1.5	0.8								
0.33 334	6.0	10.0	13.0	10.0	0.75	0.6	8.0	12.5	20.0	17.5	1.5	0.6	8.5	15.0	29.0	25.0	1.5	0.8	9.5	19.0	31.0	27.5	1.5	0.8								
0.39 394	6.5	10.5	13.0	10.0	0.75	0.6	8.0	13.5	20.0	17.5	1.5	0.6	9.5	16.0	29.0	25.0	1.5	0.8	10.5	20.0	31.0	27.5	1.5	0.8								
0.47 474	7.0	11.0	13.0	10.0	0.75	0.6	8.0	14.5	20.0	17.5	1.5	0.6	10.0	16.5	29.0	25.0	1.5	0.8	11.5	21.0	31.0	27.5	1.5	0.8								
0.56 564	5.5	10.5	18.0	15.0	0.75	0.6	7.5	14.0	29.0	25.0	1.5	0.8	10.0	19.5	29.0	25.0	1.5	0.8														
0.68 684	6.0	11.0	18.0	15.0	0.75	0.6	8.0	15.0	29.0	25.0	1.5	0.8	11.0	20.5	29.0	25.0	1.5	0.8														
0.82 824	6.5	11.5	18.0	15.0	1.0	0.8	9.0	15.5	29.0	25.0	1.5	0.8	12.0	21.5	29.0	25.0	1.5	0.8														
1.0 105	7.0	12.0	18.0	15.0	1.0	0.8	9.0	18.5	29.0	25.0	1.5	0.8	13.5	23.0	29.0	25.0	1.5	0.8														
1.2 125	7.5	13.0	18.0	15.0	1.0	0.8	9.5	19.5	29.0	25.0	1.5	0.8																				
1.5 155	8.5	14.0	18.0	15.0	1.0	0.8	10.5	20.5	29.0	25.0	1.5	0.8																				
1.8 185	8.5	14.0	21.0	17.5	1.0	0.8	12.0	21.5	29.0	25.0	1.5	0.8																				
2.2 225	9.0	15.0	21.0	17.5	1.0	0.8	13.0	22.5	29.0	25.0	1.5	0.8																				
2.7 275	10.0	16.0	21.0	17.5	1.0	0.8																										
3.3 335	10.5	17.5	21.0	17.5	1.0	0.8																										
3.9 395	11.5	18.5	21.0	17.5	1.0	0.8																										

Product symbol : (Example) MDD Series 630V.DCV 0.022μF ±10%

MDD 2J 223 K

Type of series
Capacitance tolerance code
Capacitance code
Rated voltage code

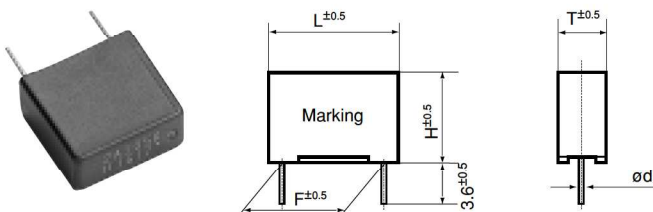
For taping, ask us for further information.

MKC-JS Series (Resin-encased Metallized Polyester Film Capacitors)

The MKC-JS series is developed to offer capacitors that have an increased moisture resistance and receive wide use in automotive electrical components, communications devices, and other electronic equipment. It guarantees a rated voltage load of 85°C, 85% RH, and 500 hours.

- The employed case and resin parts are made of the 94 V-0 flame-resistant material.
- A lead pitch of 10 mm is employed for the entire series.

Outline of drawings and dimensions



Product symbol : (Example) MKC-JS Series 100V.DCV 1.0μF ±10%

MKC-JS 2A 105 K

Type of series
Capacitance tolerance code
Capacitance code
Rated voltage code

Product Specifications

Items	Specifications
Temperature range	-40°C to +105°C
Rated voltage	100 V.DC
Capacitance tolerance	±10% (K)
Dielectric dissipation factor	Less than 0.8% (20°C, 1KHz)
Withstanding voltage	Between terminals rated volt (V.DC) × 1.5 1min. Between terminal and outside covering Rated volt (V.DC) × 2.0/1 to 5sec.
Insulation resistance	$C_r \leq 0.33\mu\text{F}$ More than 9,000MΩ $C_r > 0.33\mu\text{F}$ More than 3,000Ω·μF
Others	Subject to JIS C 5115 and JIS C 5102.

Standard value and case size

(Unit : mm)

Capacitance		Rated voltage (100V.DC)				
μF	Code	T	H	L	F	d
0.1	104	4.0	10.0	13.0	10.0	0.6
0.15	154	4.0	10.0	13.0	10.0	0.6
0.22	224	4.0	10.0	13.0	10.0	0.6
0.33	334	4.0	10.0	13.0	10.0	0.6
0.47	474	5.0	11.5	13.0	10.0	0.6
0.58	684	5.0	11.5	13.0	10.0	0.6
1.0	105	6.0	12.0	13.0	10.0	0.6
1.5	155	7.5	13.5	13.0	10.0	0.6

PLASTIC FILM CAPACITORS