MKT 075 SERIES CASE DIMENSIONS

Case Dimensions in Millimeters100V • 250V

Capacitance in µF	VOLTAGE DC/AC							
	100 V DC / 63 V AC				250 V DC / 160 V AC			
	Dimensions in Millimeters				Dimensions in Millimeters			
	L	H	T	S	L	H	T	S
0.01					10.5	9.0	4.0	7.5
0.015					10.5	9.0	4.0	7.5
0.022					10.5	9.0	4.0	7.5
0.033	10.5	9.0	4.0	7.5	10.5	9.0	4.0	7.5
0.047	10.5	9.0	4.0	7.5	10.5	9.0	4.0	7.5
0.068	10.5	9.0	4.0	7.5	10.5	11.0	5.0	7.5
0.1	10.5	9.0	4.0	7.5	10.5	11.0	5.0	7.5
0.15	10.5	9.0	4.0	7.5	10.5	12.0	6.0	7.5
0.22	10.5	11.0	5.0	7.5				
0.33	10.5	12.0	6.0	7.5				

Capacitance in µF	VOLTAGE DC/AC							
	400 V DC / 200 V AC				630 V DC / 250 V AC			
	Dimensions in Millimeters				Dimensions in Millimeters			
	L	H	T	S	L	H	T	S
0.001					10.5	9.0	4.0	7.5
0.0015					10.5	9.0	4.0	7.5
0.0022					10.5	9.0	4.0	7.5
0.0033					10.5	9.0	4.0	7.5
0.0047	10.5	9.0	4.0	7.5	10.5	9.0	4.0	7.5
0.0068	10.5	9.0	4.0	7.5	10.5	9.0	4.0	7.5
0.01	10.5	9.0	4.0	7.5	10.5	11.0	5.0	7.5
0.015	10.5	9.0	4.0	7.5	10.5	12.0	6.0	7.5
0.022	10.5	11.0	5.0	7.5				
0.033	10.5	12.0	6.0	7.5				

Case Dimensions in Inches 100V • 250V

Capacitance in µF	VOLTAGE DC/AC							
	100 V DC / 63 V AC				250 V DC / 160 V AC			
	Dimensions in Inches				Dimensions in Inches			
	L	H	T	S	L	H	T	S
0.01					0.413	0.354	0.157	0.295
0.015					0.413	0.354	0.157	0.295
0.022					0.413	0.354	0.157	0.295
0.033	0.413	0.354	0.157	0.295	0.413	0.354	0.157	0.295
0.047	0.413	0.354	0.157	0.295	0.413	0.354	0.157	0.295
0.068	0.413	0.354	0.157	0.295	0.413	0.433	0.197	0.295
0.1	0.413	0.354	0.157	0.295	0.413	0.433	0.197	0.295
0.15	0.413	0.354	0.157	0.295	0.413	0.472	0.236	0.295
0.22	0.413	0.433	0.197	0.295				
0.33	0.413	0.472	0.236	0.295				

Capacitance in µF	VOLTAGE DC/AC							
	400 V DC / 200 V AC				630 V DC / 250 V AC			
	Dimensions in Inches				Dimensions in Inches			
	L	H	T	S	L	H	T	S
0.001					0.413	0.354	0.157	0.295
0.0015					0.413	0.354	0.157	0.295
0.0022					0.413	0.354	0.157	0.295
0.0033					0.413	0.354	0.157	0.295
0.0047	0.413	0.354	0.157	0.295	0.413	0.354	0.157	0.295
0.0068	0.413	0.354	0.157	0.295	0.413	0.354	0.157	0.295
0.01	0.413	0.354	0.157	0.295	0.413	0.433	0.197	0.295
0.015	0.413	0.354	0.157	0.295	0.413	0.472	0.236	0.295
0.022	0.413	0.433	0.197	0.295				
0.033	0.413	0.472	0.236	0.295				

MKTD01 SERIES

Formerly MPD 1 series

INTRODUCTION:

The MKTD01 Series Metallized Polyester Film Capacitors cover a wide range of values and voltages. They are suitable for applications such as Blocking, By-passing and Coupling and are widely used in General communication equipment.

FEATURES:

- Wide value and Voltage range
- Self healing capability
- Flame retardant powder epoxy encapsulation
- Minimum overall dimensions due to dip coated construction

GENERAL SPECIFICATIONS:

Dissipation factor: < 0.0100 at 1 K Hz for capacitance ≤ 1.0 µF, < 0.0150 at 1 K Hz for capacitance > 1.0 µF **Insulation resistance:** For 100 VDC rated parts; ≥ 9,000 M Ohms for C ≤ 0.33 µF, ≥ 3,000 seconds for C > 0.33 µF at a temperature of 25 ± 5 °C, For 250 to 630 VDC rated parts ≥ 15,000 M Ohms for C ≤ 0.33 µF, ≥ 5,000 seconds for C > 0.33 µF at a temperature of 25 ± 5 °C
Capacitance tolerance: ±5%(J), ±10%(K) and ±20%(M) (Special parts with close tolerance ±1% and ±2% available on request) **Voltage Test :** 1.6 times the rated voltage applied between terminals for 2 seconds at 25 ± 5 °C
Temperature range: -55 to 85 °C **Climatic category:** F M F

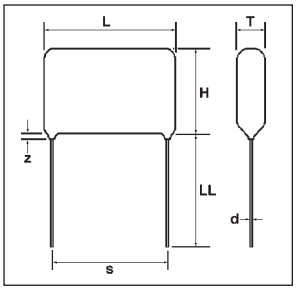
LIFE TEST DETAILS:

Capacitors shall withstand 125% DC rated voltage or 100% AC rated voltage applied at 85 °C for 1000 hours. After the test:

1. Capacitance change shall not exceed ±5% of initial value
2. Dissipation Factor shall be within 1.5 times the original limits.
3. Insulation Resistance shall be above 50% of the initial limits.
4. There shall be no remarkable change in the appearance and the marking shall remain legible.

DIMENSIONS AND TOLERANCES:

d - 0.6 mm (0.024") for Lead Spacing "s" = 10.0 mm (0.40")
d - 0.8 mm (0.032") for Lead Spacing "s" > 10.0 mm (0.40")
z - 1.5mm (0.06") max.
LL" - 20.0 mm min.(0.78")
Tolerance on "s" ± 1.0 mm (0.04")



PULSE RISE TIME (dv/dt) Volts per µsec.

Rated Voltage	LEAD SPACING mm (inches)			
	10.0 (0.40)	15.0 (0.60)	22.5 (0.89)	27.0 (1.06)
100	6	3	2	1
250	11	7	4	3
400	20	10	5.5	5
630	30	15	8	7

MKTD01 SERIES CASE DIMENSIONS

Case Dimensions in Millimeters 100V • 250V • 400V • 630V

Capacitance in µF	VOLTAGE DC/AC 100 V DC / 63 V AC Dimensions in Millimeters				250 V DC / 160 V AC Dimensions in Millimeters			
	L	H	T	S	L	H	T	S
0.01					12.5	8.5	4.5	10.0
0.015					12.5	9.0	4.5	10.0
0.022					12.5	9.0	4.5	10.0
0.033					12.5	9.0	4.5	10.0
0.047					12.5	9.5	5.0	10.0
0.068					12.5	9.5	5.0	10.0
0.1	12.5	9.5	5.0	10.0	12.5	10.0	5.5	10.0
0.15	12.5	10.0	5.0	10.0	18.0	10.5	5.5	15.0
0.22	12.5	10.0	5.5	10.0	18.0	11.5	6.5	15.0
0.33	18.0	10.5	5.5	15.0	18.0	12.5	7.0	15.0
0.47	18.0	11.5	6.0	15.0	26.0	12.5	7.0	22.5
0.68	18.0	12.0	6.5	15.0	26.0	14.5	8.0	22.5
1.0	18.0	14.0	7.5	15.0	26.0	16.0	9.0	22.5
1.5	26.0	14.0	7.5	22.5	31.0	17.0	9.5	27.0
2.2	26.0	16.0	9.0	22.5	31.0	19.0	11.5	27.0
3.3	26.0	19.0	11.0	22.5	31.0	23.0	14.0	27.0
4.7	31.0	23.0	12.0	27.0	31.0	27.0	16.5	27.0
6.8	31.0	25.0	14.0	27.0				

Case Dimensions in Inches 100V • 250V • 400V • 630V

Capacitance in µF	VOLTAGE DC/AC 100 V DC / 63 V AC Dimensions in Inches				250 V DC / 160 V AC Dimensions in Inches			
	L	H	T	S	L	H	T	S
0.01					0.492	0.335	0.177	0.394
0.015					0.492	0.354	0.177	0.394
0.022					0.492	0.354	0.177	0.394
0.033					0.492	0.354	0.177	0.394
0.047					0.492	0.374	0.197	0.394
0.068					0.492	0.374	0.197	0.394
0.1	0.492	0.374	0.197	0.394	0.492	0.394	0.217	0.394
0.15	0.492	0.394	0.197	0.394	0.709	0.413	0.217	0.591
0.22	0.492	0.394	0.217	0.394	0.709	0.453	0.256	0.591
0.33	0.709	0.413	0.217	0.591	0.709	0.492	0.276	0.591
0.47	0.709	0.453	0.236	0.591	1.024	0.492	0.276	0.886
0.68	0.709	0.472	0.256	0.591	1.024	0.571	0.315	0.886
1.0	0.709	0.551	0.295	0.591	1.024	0.630	0.354	0.886
1.5	1.024	0.551	0.295	0.886	1.220	0.669	0.374	1.063
2.2	1.024	0.630	0.354	0.886	1.220	0.748	0.453	1.063
3.3	1.024	0.748	0.433	0.886	1.220	0.906	0.551	1.063
4.7	1.220	0.906	0.472	1.063	1.220	1.063	0.650	1.063
6.8	1.220	0.984	0.551	1.063				

Capacitance in µF	VOLTAGE DC/AC 400 V DC / 200 V AC Dimensions in Millimeters				630 V DC / 220 V AC Dimensions in Millimeters			
	L	H	T	S	L	H	T	S
0.01	12.5	9.0	4.5	10.0	12.5	9.0	4.5	10.0
0.015	12.5	9.5	4.5	10.0	12.5	9.5	5.0	10.0
0.022	12.5	9.5	5.0	10.0	12.5	10.5	6.0	10.0
0.033	12.5	10.5	5.5	10.0	18.0	11.0	6.0	15.0
0.047	12.5	10.5	6.0	10.0	18.0	11.5	6.5	15.0
0.068	18.0	10.5	6.0	15.0	18.0	12.5	7.0	15.0
0.1	18.0	11.5	6.5	15.0	26.0	13.0	7.0	22.5
0.15	26.0	12.5	6.0	22.5	26.0	14.0	8.5	22.5
0.22	26.0	13.5	7.0	22.5	26.0	16.5	10.0	22.5
0.33	26.0	15.5	8.5	22.5	31.0	17.5	10.5	27.0
0.47	26.0	18.0	9.5	22.5	31.0	19.5	12.0	27.0
0.68	31.0	17.5	10.0	27.0	31.0	22.5	15.0	27.0
1.0	31.0	20.0	12.0	27.0	31.0	27.5	19.0	27.0
1.5	31.0	23.5	13.5	27.0				
2.2	31.0	26.0	16.5	27.0				

Capacitance in µF	VOLTAGE DC/AC 400 V DC / 200 V AC Dimensions in Inches				630 V DC / 220 V AC Dimensions in Inches			
	L	H	T	S	L	H	T	S
0.01	0.492	0.354	0.177	0.394	0.492	0.354	0.177	0.394
0.015	0.492	0.374	0.177	0.394	0.492	0.374	0.197	0.394
0.022	0.492	0.374	0.197	0.394	0.492	0.413	0.236	0.394
0.033	0.492	0.413	0.217	0.394	0.709	0.433	0.236	0.591
0.047	0.492	0.413	0.236	0.394	0.709	0.453	0.256	0.591
0.068	0.709	0.413	0.236	0.591	0.709	0.492	0.276	0.591
0.1	0.709	0.453	0.256	0.591	1.024	0.512	0.276	0.886
0.15	1.024	0.492	0.236	0.886	1.024	0.551	0.335	0.886
0.22	1.024	0.531	0.276	0.886	1.024	0.650	0.394	0.886
0.33	1.024	0.610	0.335	0.886	1.220	0.689	0.413	1.063
0.47	1.024	0.709	0.374	0.886	1.220	0.768	0.472	1.063
0.68	1.220	0.689	0.394	1.063	1.220	0.886	0.591	1.063
1.0	1.220	0.787	0.472	1.063	1.220	1.083	0.748	1.063
1.5	1.220	0.925	0.531	1.063				
2.2	1.220	1.024	0.650	1.063				

MKT D02 SERIES

Formerly MPD 2 series

INTRODUCTION:

The MKTD02 Series Metallized Polyester Film Capacitors cover a wide range of values and voltages. This series has lead spacing starting from 7.5mm. and covers more values than the conventional series. They are suitable for applications such as Blocking, By-passing and Coupling and are widely used in General communication equipment.

FEATURES:

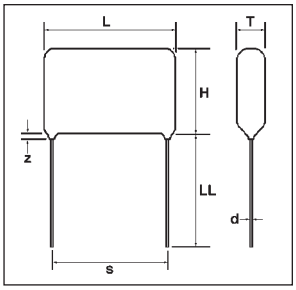
- Wide value and Voltage range
- Self healing capability
- Flame retardant powder epoxy encapsulation
- Minimum overall dimensions due to dip coated construction

GENERAL SPECIFICATIONS:

Dissipation factor: < 0.0100 at 1 K Hz for capacitance≤ 1.0 µF, < 0.0150 at 1 K Hz for capacitance> 1.0 µF. **Insulation resistance:** For 100 VDC rated parts; ≥ 9,000 M Ohms for C≤ 0.33 µF, ≥ 3,000 seconds for C> 0.33 µF at a temperature of 25 ± 5 °C. For 250 to 630 VDC rated parts; ≥ 15,000 M Ohms for C≤ 0.33 µF, ≥ 5,000 seconds for C> 0.33 µF at a temperature of 25 ± 5 °C.
Capacitance tolerance: ±5%(J), ±10%(K) and ±20%(M) **Voltage Test :** 1.6 times the rated voltage applied between terminals for 2 seconds. at a temperature of 25 ± 5 °C.
Temperature range: -55 to 85 °C **Climatic category:** F M F

DIMENSIONS AND TOLERANCES:

d - 0.6 mm (0.024") for Lead Spacing "s" = 10.0 mm (0.40")
d - 0.8 mm (0.032") for Lead Spacing "s" > 10.0 mm (0.40")
z - 1.5mm (0.06") max.
LL" - 20.0 mm min.(0.78")
Tolerance on "s" ± 1.0mm (0.04")



PULSE RISE TIME (dv/dt) Volts per µsec.

Rated Voltage	LEAD SPACING mm (inches) 7.5 (0.30)	10.0 (0.40)	15.0 (0.60)	22.5 (0.89)	27.5 (1.08)
100	6	6	3	2	1
250	15	11	7	4	3
400	30	20	10	5.5	5
630	40	30	15	8	7

LIFE TEST DETAILS:

Capacitors shall withstand 125% DC rated voltage or 100% AC rated voltage applied at 85 °C for 1000 hours. After the test:

1. Capacitance change shall remain within ±5%.
2. Dissipation Factor shall be within 1.5 times the original limits.
3. Insulation Resistance shall be above 50% of the initial limits.
4. There shall be no remarkable change in the appearance and the marking shall remain legible.