

MKT 075 SERIES
Formerly MKT 1.67 series

INTRODUCTION:

The MKT 075 Series Metallized Polyester Film Capacitors are specially designed for use in thickly populated Printed Circuit Boards where miniaturization is important. These capacitors are widely used in all General Purpose applications.

FEATURES:

- Wide value and Voltage range
- Flame retardant case and potting
- Consistent dimensions and surface finish due to molded case construction
- Self healing capability

GENERAL SPECIFICATIONS:

Dissipation factor: ≤ 0.015 at 10 K Hz for capacitance $< 1.0 \mu\text{F}$

Insulation resistance: For nominal voltage $\leq 100 \text{ V DC}$, $\geq 10,000 \text{ M Ohm}$ for $C \leq 0.1 \mu\text{F}$, $\geq 1,000$ seconds for $C > 0.1 \mu\text{F}$, For nominal voltage $> 100 \text{ V DC}$, $\geq 30,000 \text{ M Ohm}$ for $C \leq 0.33 \mu\text{F}$, $\geq 10,000$ seconds for $C > 0.33 \mu\text{F}$

Capacitance tolerance: $\pm 5\%$ (J), $\pm 10\%$ (K) and $\pm 10\%$ (M)

Voltage Test : 1.6 times the rated voltage applied between terminals for 2 seconds. at temperature of $25 \pm 5 \text{ }^\circ\text{C}$

Temperature range: -55 to $100 \text{ }^\circ\text{C}$ with derating above $85 \text{ }^\circ\text{C}$

Climatic category: F M D

LIFE TEST DETAILS:

Capacitors shall withstand 125% DC rated voltage or 100% AC rated voltage applied at $85 \text{ }^\circ\text{C}$ for 1000 hours. After the test:

1. Capacitance change shall remain within $\pm 5\%$.
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.

DIMENSIONS AND TOLERANCES:

"d" - 0.6 mm (0.024")

for dimension "T" = 4mm (0.160")

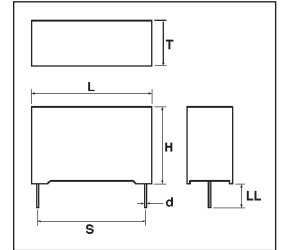
"d" - 0.8 mm (0.032")

for dimension "T" > 4mm (0.160")

"LL" - $6.0 \pm 1.0 \text{ mm}$

(0.24 ± 0.04 ")

Tolerance on "s" $\pm 0.4 \text{ mm}$ (0.016")



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

RATED VOLTAGE	dv/dt - Volts-per μ Seconds
100	6
250	15
400	30
630	40

MKT 075 SERIES Case Dimensions

Case Dimensions in Millimeters 100V • 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				