MKTD04 SERIES

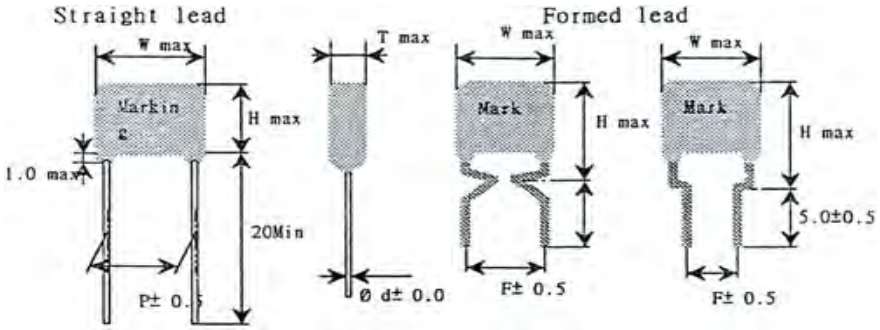
Features
- Very small size, Epoxy coating, Flame retardant to UL94V-0 7.5mm Lead spacing. - Self-healing metallized polyester dielectric, Non-inductive construction. - High performance and efficiencies. Custom values, voltages, and case sizes available upon request.

Application
- Multi-purpose - Blocking & coupling - By-passing & Filtering, Timing



Specifications

Capacitance Range	0.001µF to 1.0µF
Operating temperature	-40 to +85°C (up to 100°C - derate voltage 1.25% per °C)
Rated Voltage	50/63, 100, 250, 400, 630, 1000V dc
Capacitance Tolerance	±2(G), ±5(J), ±10(K) %
Tangent of Loss Angle	0.008 or LESS (at 1KHz +25°C)
Insulation Resistance	Voltage Charge : 1 min at +25°C, ±5°C 50 Vdc for Vr<100Vdc, 100Vdc for Vr≥100Vdc 9,000 or more, c≤0.33µf 5000S or more c>0.33µf
Voltage Test	1.6 x Vr applied for 2sec +25°C, 5°C (Between Terminal)
Endurance	+85°C, ±2°C, 1.25 x Vr, 1000Hr Cap Change: < ±5%, DF Change : <50x10 at 1khz Insulation Resistance: <50% of limit value
Damp Heat	+40°C±2°C, 93% ±2%, 21days Cap Change: < ±5%, DF Change : <50x10 at 1khz Insulation Resistance: <50% of limit value
Construction	Non-inductive wound metallized polyester film Epoxy dipped encasement, Flame retardant to UL94V-0
Lead Material Color of Body Markings	Solder coated or Tinned solid wire Orange/Brown Capacitance, Tolerance, Voltage When space permits, Capacitor Type will be marked

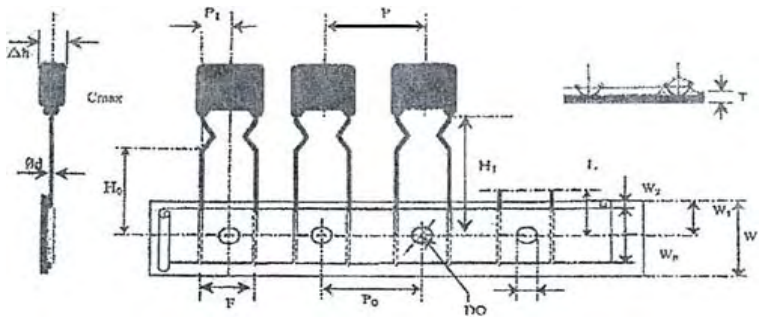


- Special size or items on request.
- Tolerance Dimension ±0.5 mm.

Capacitance		50/63DC					100VDC					250VDC				
µF	code	T_{max}	H_{max}	W_{max}	P	d	T_{max}	H_{max}	W_{max}	P	d	T_{max}	H_{max}	W_{max}	P	d
0.0010	102	3.0	5.0	9.3	7.5	0.6	3.0	5.0	9.3	7.5	0.6	3.0	5.0	9.3	7.5	0.6
0.0012	122	3.0	5.0	9.3	7.5	0.6	3.0	5.0	9.3	7.5	0.6	3.0	5.0	9.3	7.5	0.6
0.0015	152	3.0	5.0	9.3	7.5	0.6	3.0	5.0	9.3	7.5	0.6	3.0	5.0	9.3	7.5	0.6
0.0018	182	3.0	5.0	9.3	7.5	0.6	3.0	5.0	9.3	7.5	0.6	3.0	5.0	9.3	7.5	0.6
0.0022	222	3.0	5.0	9.3	7.5	0.6	3.0	5.0	9.3	7.5	0.6	3.0	5.0	9.3	7.5	0.6
0.0027	272	3.0	5.0	9.3	7.5	0.6	3.0	5.0	9.3	7.5	0.6	3.0	5.0	9.3	7.5	0.6
0.0033	332	3.0	5.0	9.3	7.5	0.6	3.0	5.0	9.3	7.5	0.6	3.0	5.0	9.3	7.5	0.6
0.0039	392	3.0	5.0	9.3	7.5	0.6	3.0	5.0	9.3	7.5	0.6	3.0	5.0	9.3	7.5	0.6
0.0047	472	3.0	5.0	9.3	7.5	0.6	3.0	5.0	9.3	7.5	0.6	3.0	5.0	9.3	7.5	0.6
0.0056	562	3.0	5.0	9.3	7.5	0.6	3.0	5.0	9.3	7.5	0.6	3.0	5.0	9.3	7.5	0.6
0.0068	682	3.0	5.0	9.3	7.5	0.6	3.0	5.0	9.3	7.5	0.6	3.0	5.0	9.3	7.5	0.6
0.0082	822	3.0	5.0	9.3	7.5	0.6	3.0	5.0	9.3	7.5	0.6	3.0	5.0	9.3	7.5	0.6
0.010	103	3.0	5.0	9.3	7.5	0.6	3.0	5.0	9.3	7.5	0.6	3.0	5.0	9.3	7.5	0.6
0.012	123	3.0	5.0	9.3	7.5	0.6	3.0	5.0	9.3	7.5	0.6	3.0	5.0	9.3	7.5	0.6
0.015	153	3.0	5.0	9.3	7.5	0.6	3.0	5.0	9.3	7.5	0.6	3.0	5.0	9.3	7.5	0.6
0.018	183	3.0	5.0	9.3	7.5	0.6	3.0	5.0	9.3	7.5	0.6	3.0	5.0	9.3	7.5	0.6
0.022	223	3.0	5.0	9.3	7.5	0.6	3.0	5.0	9.3	7.5	0.6	3.0	5.0	9.3	7.5	0.6
0.027	273	3.0	5.0	9.3	7.5	0.6	3.0	5.0	9.3	7.5	0.6	3.0	5.0	9.3	7.5	0.6
0.033	333	3.0	5.2	9.3	7.5	0.6	3.0	5.2	9.3	7.5	0.6	3.0	5.2	9.3	7.5	0.6
0.039	393	3.0	5.2	9.3	7.5	0.6	3.0	5.2	9.3	7.5	0.6	-	-	-	-	-
0.047	473	3.0	5.2	9.3	7.5	0.6	3.0	5.2	9.3	7.5	0.6	-	-	-	-	-
0.056	563	3.0	5.2	9.3	7.5	0.6	3.0	5.2	9.3	7.5	0.6	-	-	-	-	-
0.068	683	3.0	5.2	9.3	7.5	0.6	3.0	5.2	9.3	7.5	0.6	-	-	-	-	-
0.082	823	3.0	5.2	9.3	7.5	0.6	3.0	5.2	9.3	7.5	0.6	-	-	-	-	-
0.10	104	3.0	5.2	9.3	7.5	0.6	3.0	5.2	9.3	7.5	0.6	-	-	-	-	-
0.12	124	3.0	5.5	9.3	7.5	0.6	3.0	5.5	9.3	7.5	0.6	-	-	-	-	-
0.15	154	3.0	6.0	9.3	7.5	0.6	3.0	6.0	9.3	7.5	0.6	-	-	-	-	-
0.18	184	3.3	6.5	9.3	7.5	0.6	3.3	6.5	9.3	7.5	0.6	-	-	-	-	-
0.22	224	3.5	6.5	9.3	7.5	0.6	3.5	6.5	9.3	7.5	0.6	-	-	-	-	-
0.27	274	4.0	7.0	9.3	7.5	0.6	4.0	7.0	9.3	7.5	0.6	-	-	-	-	-
0.33	334	4.0	7.5	9.3	7.5	0.6	4.0	7.5	9.3	7.5	0.6	-	-	-	-	-
0.39	394	4.5	7.8	9.3	7.5	0.6	4.5	7.8	9.3	7.5	0.6	-	-	-	-	-
0.47	474	4.8	8.0	9.3	7.5	0.6	4.8	8.0	9.3	7.5	0.6	-	-	-	-	-
0.56	564	5.0	9.0	9.3	7.5	0.6	5.0	9.0	9.3	7.5	0.6	-	-	-	-	-
0.68	684	5.2	9.2	9.3	7.5	0.6	5.2	9.2	9.3	7.5	0.6	-	-	-	-	-
0.82	824	5.8	10.8	9.3	7.5	0.6	5.8	10.8	9.3	7.5	0.6	-	-	-	-	-
1.0	105	5.8	10.8	9.3	7.5	0.6	5.8	10.8	9.3	7.5	0.6	-	-	-	-	-

Capacitance		400V DC					630V DC					1000V DC				
µF	code	Tmax	Hmax	Wmax	P	d	Tmax	Hmax	Wmax	P	d	Tmax	Hmax	Wmax	P	d
0.0010	102	3.0	5.0	9.3	7.5	0.6	3.0	5.0	9.3	7.5	0.6	3.0	5.0	9.3	7.5	0.6
0.0012	122	3.0	5.0	9.3	7.5	0.6	3.0	5.0	9.3	7.5	0.6	3.0	5.0	9.3	7.5	0.6
0.0015	152	3.0	5.0	9.3	7.5	0.6	3.0	5.0	9.3	7.5	0.6	3.0	5.0	9.3	7.5	0.6
0.0018	182	3.0	5.0	9.3	7.5	0.6	3.0	5.0	9.3	7.5	0.6	-	-	-	-	-
0.0022	222	3.0	5.0	9.3	7.5	0.6	3.0	5.0	9.3	7.5	0.6	-	-	-	-	-
0.0027	272	3.0	5.0	9.3	7.5	0.6	-	-	-	-	-	-	-	-	-	-
0.0033	332	3.0	5.0	9.3	7.5	0.6	-	-	-	-	-	-	-	-	-	-
0.0039	392	3.0	5.0	9.3	7.5	0.6	-	-	-	-	-	-	-	-	-	-
0.0047	472	3.0	5.0	9.3	7.5	0.6	-	-	-	-	-	-	-	-	-	-
0.0056	562	3.0	5.0	9.3	7.5	0.6	-	-	-	-	-	-	-	-	-	-
0.0068	682	3.0	5.0	9.3	7.5	0.6	-	-	-	-	-	-	-	-	-	-
0.0082	822	-	-	-	7.5	0.6	-	-	-	-	-	-	-	-	-	-
0.010	103	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
0.012	123	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
0.015	153	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
0.018	183	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
0.022	223	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
0.027	273	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
0.033	333	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
0.039	393	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
0.047	473	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
0.056	563	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
0.068	683	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
0.082	823	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
0.10	104	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
0.12	124	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
0.15	154	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
0.18	184	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
0.22	224	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
0.27	274	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
0.33	334	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
0.39	394	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
0.47	474	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
0.56	564	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
0.68	684	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
0.82	824	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.0	105	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Taping Specifications For Automatic Insertion



Description	Symbol	Dimensions (mm)	
		Lead Spacing 7.5mm	Toll
Lead wire diameter	Φd	0.6	±0.05
Taping pitch	P	12.7	±0.1
Sprocket hole pitch	P0	12.7	±0.2
Centering of the lead wire	P	3.75	±0.5
Centering of the body	P2	0	-
Lead spacing	F	7.5	±0.8
Component alignment	Δh	0	±2.0
Height from sprocket hole	H1	20.0	±0.5
Height	H	16.0	±0.5
Center to the comp body	L	11.0	±0.5
Tape width	W	18.0	+1.0-0.5
Width of adhesive tape	W0	13.0	±0.5
Sprocket hole alignment	W1	9.0	±0.5
Position of adhesive tape	W2	3max	
Sprocket hole diameter	D0	4.0	±0.2
Tape thickness	T	0.7	±0.2

Standard Packing Quantity For Box



50-100V		250V		400V		630V		1000V	
102-124 values	1800PCS	102-273 values	2000PCS	102-822 values	2000PCS	102-392 values	2000PCS	102-182 values	2000PCS
154-224 values	1500PCS	333-524 values	1500PCS	103-223 values	1500PCS	472-822 values	1500PCS	222-332 values	1500PCS
274-474 values	1200PCS	154-184 values	1200PCS	273-393 values	1200PCS	103-123 values	1200PCS	392-822 values	1200PCS
564-824 values	1000PCS	224-274 values	1000PCS	473-563 values	1000PCS	153-223 values	1000PCS	103 value	1000PCS
-	-	334-474 values	800PCS	683-823 values	800PCS	273-333 values	800PCS	-	-
-	-	564-684 values	700PCS	104 value	700PCS	393 value	700PCS	-	-