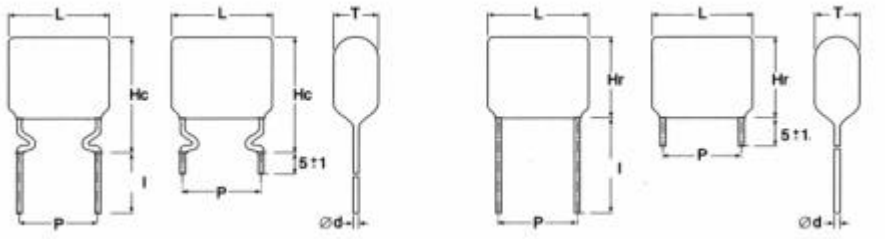
MFP-50

CAPACITORS KONEK

FILM/FOIL AND METALLIZED POLYPROPYLENE FILM CAPACITOR



TYPICAL APPLICATIONS
High frequency and high pulse rise time circuits, high voltage power supplies, electronic ballast.

FEATURES:
Connection A: Excellent electrical perfo rmance, low dissipation factor and high insulation resistance.
Connection B: High voltage, high pulse, high dv/dt, low dissipation factor and self heating properties.

MARKING: Manufacturer's logo, capacitance, tolerance, rated voltage and type.

DIELECTRIC: Polypropylene film.

ELECTRODES:
Connection A: Aluminium foil
Connection B: Aluminium layer deposited by evaporation under vacuum.

CONSTRUCTION:
Connection A are non-inductive construction with polypropylene dielectric, aluminium electrode and copper-clad steel leads with epoxy resin coating.
Connection B are non-inductive wound with metal foil and metallized polypropylene film in series with flame retardant epoxy sealed.

LEADS: Tinned wire.

OPERATING TEMP. RANGE:
From -55ºC to +105ºC (At 105ºC with 75% rated voltage)
CAPACITANCE RANGE:
Connection A: From 0.001?F to 0.022 ?F
Connection B: From 100 pF to 0.33 ?F

CAPACITANCE TOLERANCE: 10%, 5%

RATED VOLTAGE:
Connection A: 630 VDC, 1000VDC
Connection B: 630VDC, 1000VDC, 1250VDC, 1600VDC, 2000VDC

PITCH: 15, 22.5, 27.5 (mm)

PITCH TOLERANCE:
15: ±0,5mm
22.5, 27.5: ±1mm

DISSIPATION FACTOR (10KHz,25ºC)**:**
Connection A: Tg ? ? 10 ?10^{-4}
Connection B: Tg ? ? 15 ?10^{-4} for C?0.1?F
Tg ? ? 20 ?10^{-4} for C? 0.1 ?F

INSULATION RESITANCE: ?100,000 M?

WITHSTAND VOLTAGE: 2 U_R 5$_S$

RESISTANCE TO SOLDERING HEAT:
Body temperature: 100ºC
Bath temperature: 260ºC ? 5ºC

BASIC SPECIFICATIONS:
IEC 60384-16
CECC 31200

MAXIMUM PULSE RISE TIME (dV/dT)

	630V	1000V	1600V	2000V
Pitch 15 mm	4800 V/ ?s	8600 V/ ?s	15800 V/ ?s	17500 V/ ?s
Pitch 22.5 mm	2700 V/ ?s	5000 V/ ?s	10800 V/ ?s	15400 V/ ?s
Pitch 27.5 mm	1900 V/ ?s	3800 V/ ?s	6000 V/ ?s	8200 V/ ?s

STANDARD PRODUCTS AND CASE SIZE TABLE (mm)

CONNECTION A

CAP	PITCH (mm)	630VDC			1000VDC		
		L	H	T	L	H	T
0.001 ? F	**7.5**	10	9	5			
0.001 ? F	**10**				13	9	5
0.0015 ? F	**7.5**	10	9	5			
0.0015 ? F	**10**				13	9	5
0.0022 ? F	**7.5**	10	10	6			
0.0022 ? F	**10**				13	11	6
0.0033 ? F	**7.5**	10	10	7			
0.0033 ? F	**10**				13	11	7
0.0047 ? F	**10**	14	11	7	13	11	7
0.0068 ? F	**10**	12	12	8	13	13	8
0. 010 ? F	**10**	14	13	8.5			
0.010 ? F	**15**				19	11	6.5
0.015 ? F	**15**	19	13	7.5	19	13	7.5
0.022 ? F	**15**	19	15	8	19	15	8

CONNECTION B

CAP	PITCH (mm)	630VDC			1000VDC			1250VDC			1600VDC			2000VDC		
		L	H	T	L	H	T	L	H	T	L	H	T	L	H	T
330 pF	**15**										19	12	6.5	19	12	6.5
470 pF	**15**										19	12	6.5	19	12	6.5
680 pF	**15**										19	12	6.5	19	12	6.5
0.001 ? F	**15**							19	12	6.5	19	12	6.5	19	12	6.5
0.0015 ? F	**15**				19	12	6	19	12	6.5	19	12	6.5	19	12	6.5
0.0022 ? F	**15**	19	12	6	19	11.5	6	19	12	6.5	19	12	7	19	13.5	7
0.0033 ? F	**15**	19	12	6	19	12	6	19	12.5	7	19	13.5	8	19	15	8.5
0.0047 ? F	**15**	19	12	6	19	13	7	19	13	7.5	19	15.5	9.5	19	16	10.5
0.0068 ? F	**15**	19	12	6	19	14	8	19	14.5	8.5	19	16	10.5			
0.0068 ? F	**22.5**													27.5	17.5	12.5
0. 010 ? F	**15**	19	12	6	19	15.5	10	19	16	10	19	17.5	12.5			
0. 010 ? F	**22.5**													27.5	17.5	10.5
0.015 ? F	**15**	19	13	7	19	17	11	19	16.5	12						
0.015 ? F	**22.5**										27.5	17.5	9.5	27.5	21	13
0.022 ? F	**15**	19	14	8												
0.022 ? F	**22.5**				27.5	17	8.5	27.5	17.5	10	27.5	19.5	11.5	27.5	22.5	15.5
0.033 ? F	**15**	19	15.5	9.5												
0.033 ? F	**22.5**				27.5	18	10	27.5	19.5	12	27.5	22.5	15.5			
0.033 ? F	**27.5**													32.5	25	15
0.047 ? F	**15**	19	17	12												
0.047 ? F	**22.5**				27.5	20	12	27.5	21	14						
0.047 ? F	**27.5**										32.5	22.5	14			
0.068 ? F	**22.5**	27.5	18	9.5												
0.068 ? F	**27.5**				32.5	22	13	32.5	23	13.5	32.5	26.5	16			
0.1 ? F	**22.5**	27.5	20	11.5												
0.1 ? F	**27.5**				32.5	23	15	32.5	26	16	32.5	31	21			
0.15 ? F	**27.5**	32.5	22	12	32.5	27.5	20	32.5	31	21						
0.22 ? F	**27.5**	32.5	22.5	13.5												
0.33 ? F	**27.5**	32.5	25.5	16												