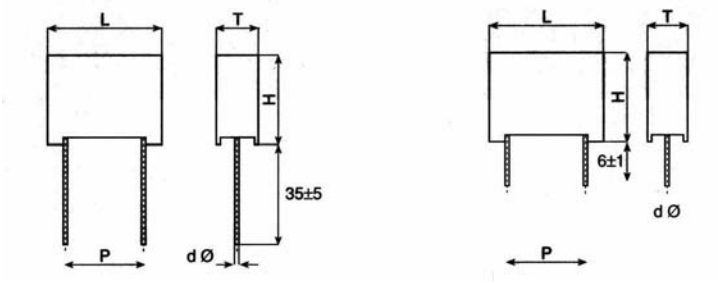
METALLIZED POLYPROPYLENE FILM CAPACITOR (X1)



TYPICAL APPLICATIONS:
Interference suppression (X1) and across the line applications. They are suitable for use in situations where failure of the capacitors would not lead to danger of electric shock.. Ideal for use in line bypass, antenna coupling, across-the line and spark killer circuits. Switching power supply, EMI filter, household appliances, dimmers.

FEATURES:
The MKP-18 is specially designed as interference suppressor. It is self-healing metallized polypropylene film non-inductively high moisture resistance

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

DIELECTRIC:
Polypropylene film.

ELECTRODES:
Aluminium layer deposited by evaporation under vacuum.

CONSTRUCTION:
Metallized polypropylene film, non inductive, radial leads, encapsulated in flame retardant plastic (UL94, V-0) case sealed in epoxy resin.

LEADS:
Tinned copper clad steel wire.

OPERATING TEMP. RANGE:
-40ºC to +100ºC

CAPACITANCE RANGE:
From 0.0047 µF to 4.7 µF

CAPACITANCE TOLERANCE:
20%, 10%, 5%

CAPACITANCE VALUE:
E6, E12

RATED VOLTAGE:
300 VAC (50Hz/60 Hz)

PITCH:
10, 15, 22.5, 27.5, 32.5, 47.5 (mm)

PITCH TOLERANCE:
10, 15,22.5: ±0,5mm
27.5, 32.5, 47.5: ±1mm

DISSIPATION FACTOR:
$C \leq 1\mu F$ $Tg\delta \leq 30 \cdot 10^{-4}$ (10 KHz 20ºC)
$C > 1\mu F$ $Tg\delta \leq 10 \cdot 10^{-4}$ (10 KHz 20ºC)

INSULATION RESISTANCE:
≥30.000 MΩ for C≤0.33µF
≥1.000.000 MΩ/µF for C>0.33µF

WITHSTAND VOLTAGE:
1700 VDC for 2s.

PEAK PULSE:
4.0 Kv.

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

BASIC SPECIFICATIONS:
IEC 384-14, EN 132400

SAFETY CLASS:
X1

APPROVAL:
VDE: from 0,0047µF to 4,7µF
UL: from 0,0047µF to 10µF

STANDARD PRODUCTS AND CASE SIZE TABLE (mm)

Cap (µF)	Pitch (mm)	L	H	T	Rated Voltage VAC
0.0047 µF	10	13	11	5	300
0.0047 µF	15	18	10	5	300
0.01 µF	15	18	10	5	300
0.015 µF	15	18	10	5	300
0.022 µF	15	17	11	5.5	300
0.033 µF	15	18	10	5	300
0.047 µF	15	18	10	5	300
0.056 µF	15	18	10	5	300
0.068 µF	15	18	10	5	300
0.082 µF	15	17	11	5.5	300
0.1 µF	10	13	12	6	300
0.1 µF	15	17	11	5.5	300
0.15 µF	15	18	13.5	6	300
0.22 µF	15	17	15.5	7.5	300
0.22 µF	22.5	25	14.5	6	300
0.27 µF	22.5	26.5	16.5	7	300
0.33 µF	15	17	16.5	9.5	300
0.33 µF	22.5	26.5	16.5	7	300
0.39 µF	22.5	26.5	17	8.5	300
0.47 µF	15	17	19	11	300
0.47 µF	22.5	26.5	17	8.5	300
0.56 µF	22.5	26.5	19	10	300
0.68 µF	22.5	26.5	19	10	300
0.68 µF	27.5	31.5	20	11	300
0.82 µF	27.5	31.5	20	11	300
1 µF	22.5	25	23.5	14	300
1 µF	27.5	30	21	11.5	300
1 µF	32.5	37	24	13.5	300
1.2 µF	27.5	31.5	25	14	300
1.2 µF	32.5	37	24	13.5	300
1.5 µF	27.5	31.5	25	14	300
1.5 µF	32.5	37	24	13.5	300
2.2 µF	32.5	37	26.5	16	300
2.7 µF	32.5	37	28.5	18	300
3.3 µF	32.5	37	34	22	300
3.3 µF	47.5	51	27.5	17.5	300
3.9 µF	32.5	37	34	22	300
3.9 µF	47.5	51	27.5	17.5	300
4.7 µF	47.5	51	30.5	20	300
5.6 µF	47.5	51	34	22.5	300
6.8 µF	47.5	51	34	22.5	300
7.5 µF	47.5	51	37	24	300
8.2 µF	47.5	51	37	24	300
10 µF	47.5	51	43.5	29	300