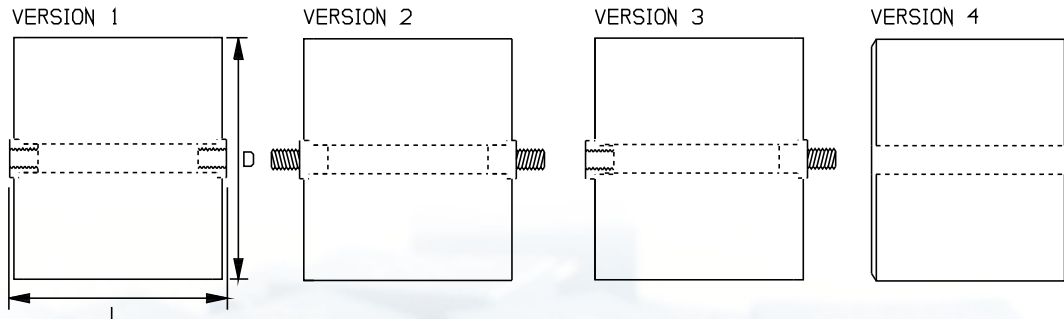


# KP 37 METALLISED POLYPROPYLENE AND FOIL CAPACITORS WRAP & END FILL OR MACHINED END FACE FORMAT



SEE TABLE OVERLEAF FOR CAPACITANCE VALUES AND DIMENSIONS.

## GENERAL DETAILS

PULSE AND HEAVY DUTY AC CAPACITORS, CAPABLE OF OPERATION AT HIGH FREQUENCY, HIGH CURRENT AND HIGH DC VOLTAGE. TYPICAL USES INCLUDE SNUBBING NETWORKS, INVERTERS AND PULSE DISCHARGE CIRCUITRY.

## TECHNICAL DETAILS

### DIELECTRIC ELECTRODES

POLYPROPYLENE.  
VACUUM DEPOSITED ALUMINIUM AND ALUMINIUM FOIL.

### ENCAPSULATION TERMINALS

PETP TAPE WRAP & RESIN END SEAL.  
MACHINED END FACES OR M8 Ni PLATED BRASS BUSHES OR M8 STUDS OR COMBINATION OF STUD & BUSH.

### ENVIRONMENTAL CLASSIFICATION WORKING VOLTAGES

40 / 085 / 21.  
1500 VDC / 500 VAC.  
(PK AC + DC VOLTS MUST BE <1500 V).

### CURRENT CAPABILITY

40 X C ( $\mu\text{F}$ ) (UP TO 80 A RMS MAX ON TERMINATED VERSIONS.)

### MAXIMUM $\delta v / \delta t$

500 V /  $\mu\text{S}$ .

### CAPACITANCE RANGE

150 nF - 4  $\mu\text{F}$ .

### TAN DELTA

< 0.001 @ 1kHz, 20°C.

### INSULATION RESISTANCE

>50,000 M $\Omega$  @ 20°C, C  $\leq$  1  $\mu\text{F}$ .  
>50,000 M $\Omega$ . $\mu\text{F}$  @ 20°C, C > 1  $\mu\text{F}$ .

### TOLERANCES

$\pm$  20%,  $\pm$  10%,  $\pm$  5%.

### TEMPERATURE

THE SURFACE TEMPERATURE RISE MUST BE  $\leq$  5°C. WHERE  $T_{\text{AMB}} > 70^\circ\text{C}$  THE SURFACE TEMPERATURE RISE MUST BE < 1°C.

**MFD CAPACITORS (1991) LTD**, PENLEY, LL13 OLY, U.K.

TEL: 01978 710551 FAX: 01978 710501 E Mail: sales@mfdcapacitors.co.uk

Website: www.mfdcapacitors.co.uk

## CAPACITOR SIZES

VALUE	L MAX VERSION S 1, 2 & 3	L MAX VERSION 4	D MAX
150 nF	48.0	41.0	27.2
220 nF	48.0	41.0	31.1
330 nF	48.0	41.0	34.9
470 nF	48.0	41.0	39.3
680 nF	48.0	41.0	47.0
1 $\mu$ F	48.0	41.0	53.6
1.5 $\mu$ F	48.0	41.0	63.5
2.2 $\mu$ F	48.0	41.0	77.8
3.7 $\mu$ F	48.0	41.0	90.0

VALUES AND VOLTAGE RATINGS OTHER THAN THOSE SHOWN ARE AVAILABLE. CONTACT SALES OFFICE FOR DETAILS.

---

**MFD CAPACITORS (1991) LTD**, PENLEY, LL13 OLY, U.K.

TEL: 01978 710551 FAX: 01978 710501 E Mail: [sales@mfdcapacitors.co.uk](mailto:sales@mfdcapacitors.co.uk)

Website: [www.mfdcapacitors.co.uk](http://www.mfdcapacitors.co.uk)

T4.9.KP37 PAGE 2 OF 2 ISSUE: 1 DATE: 23 OCTOBER 1995