WIMA DC-LINK MKP C NEW



Metallized Polypropylene (PP) Capacitors in Cylindrical Case for DC-Link Applications

Special Features

- Very high volume/capacitance ratio
- Self-healing
- Cylindrical capacitor body with axial screw and thread connections size M6 or M8
- Internal series connection from 850 VDC
- Very low dissipation factor
- Negative capacitance change versus temperature
- Very low dielectric absorption
- According to RoHS 2002/95/EC

Typical Applications

As intermediate circuit capacitor e.g. in high power converter technology

Construction

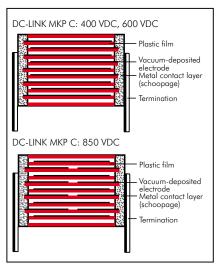
Dielectric:

Polypropylene (PP) film

Capacitor electrodes:

Vacuum-deposited

Internal construction:



Encapsulation:

Solvent-resistant, flame-retardant plastic case with PU seal, UL 94 V-0

Terminations:

Axial screw connection M6 or M8.

Marking:

Colour: Black. Marking: Gold.

Electrical Data

Capacitance range:

30 μ F to 250 μ F

Rated voltages:

400 VDC, 600 VDC, 850 VDC

Capacitance tolerances:

±20%, ±10%, ±5%,

Operating temperature range:

-40° C to +85° C

Climatic test category:

40/085/56 in accordance with IEC

Insulation resistance at +20° C:

 \geq 10000 sec (M $\Omega \times \mu$ F)

(mean value: 50 000 sec)

Measuring voltage: 100 V/1 min.

Dissipation factors at +20° C:

 $\tan \delta \leq 15 \times 10^{-4} \text{ at 1 kHz}$

Test voltage:

1.2 U_r, 2sec

Dielectric absorption:

0.05 %

Voltage derating:

A voltage derating factor of 1.35 % per K must be applied from +65° C for DC voltages.

Reliability:

Operational life $> 200\,000$ hours Failure rate < 2 fit (0.5 x U, and 40° C)

Specific dissipation:

-респис инстрантон				
Box size W x L in mm	Specific dissipation in Watts per K above the ambient temperature			
60 x 49 70 x 49 80 x 49 90 x 49 90 x 58	0.186 0.231 0.280 0.333 0.364			
90 x 97	0.501			

Mounting Recommendation

Excessive mechanical strain, e.g. pressure or shock onto the capacitor body, is to be avoided during mounting and usage of the capacitors. When fixing the capacitor the screw torque is to be limited to max. 5 Nm.

For further details and graphs please refer to Technical Information.

Packing

Transportation-safe packing in cardboard boxes.

Packing units

pcs. per packing unit		
12		
8		
6		
6		

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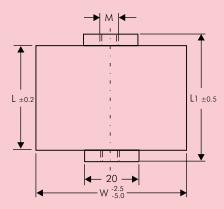


Continuation

General Data

Capacitance	400 VDC W x L	600 VDC W x L	850 VDC W x L
30 µF 40 " 50 " 60 " 70 " 80 " 90 "	60 x 49 60 x 49 60 x 49 60 x 49 70 x 49	60 x 49 70 x 49 70 x 49 80 x 49 80 x 49 90 x 49 90 x 49	90 x 97 90 x 97 90 x 97 90 x 97 90 x 97
100 µF 110 " 120 " 130 " 140 " 150 " 160 " 170 " 180 "	70 x 49 70 x 49 70 x 49 80 x 49 80 x 49 80 x 49 80 x 49 90 x 49 90 x 49 90 x 49	90 x 58 90 x 58 90 x 58	90 x 97 90 x 97
200 µF 200 " 220 " 230 " 240 " 250 "	90 x 49 90 x 58 90 x 58 90 x 58 90 x 58 90 x 58		

Dims. in mm.



W	L	L1	М
60	49	55	M6
70	49	55	M6
80	49	55	M8
90	49	55	M8
90	58	64	M8
90	97	103	M8

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