

WIMA MKB 3

Metallized polycarbonate capacitors with axial leads

- For stringent requirements. ■ In cylindrical metal cases.
- Available in insulated and non-insulated models.

Technical Data

Metallized film capacitors housed in an aluminium cylindrical case with cast resin sealing.

Insulated and non-insulated models. Reliable connections between the ends of the vacuum-deposited electrodes and the leads are achieved.

Dielectric: Polycarbonate film.

Capacitor electrodes: Vacuum-deposited aluminium.

Temperature range: - 40° C to + 85° C.

Test specifications: In accordance with IEC 384-6 and CECC 30 500.

Test category: 40/085/56 in accordance with IEC.

Insulation resistance at + 20° C:

Capacitance $\leq 0.33 \mu\text{F}$: $\geq 1.5 \times 10^4$ megohms

Capacitance $> 0.33 \mu\text{F}$: ≥ 5000 sec (megohms $\times \mu\text{F}$)

In accordance with IEC 384-6 grade 1 and CECC 30 500.

Measuring voltage:

$V_r = 63 \text{ V}; V_{\text{test}} = 50 \text{ V/1 min.}$

$V_r = 100 \text{ V}; V_{\text{test}} = 100 \text{ V/1 min.}$

Dissipation factor at + 20° C: $\tan \delta \leq 3 \times 10^{-3}$ at 1 kHz.

Test voltage: 1.6 V_r , 2 sec.

Vibration: 6 hours at 10 ... 2000 Hz and 0.75 mm displacement amplitude or 10 g in accordance with IEC 68-2-6 (capacitor to be secured at the body).

Low air density: 1 kPa = 10 mbar in accordance with IEC 68-2-13.

Bump test: 4000 bumps at 390 m/sec² in accordance with IEC 68-2-29 (capacitor to be secured at the body).

Capacitance tolerances: $\pm 20\%$, $\pm 10\%$ (closer tolerances $\pm 5\%$, $\pm 2.5\%$, $\pm 1\%$ see WIMA MKB 5).

General Data

Capacitance	63 VDC / 40 VAC*			100 VDC / 63 VAC*		
	D	L	d	D	L	d
0.01 μF				6	16	0.7
0.015 "				6	16	0.7
0.022 "				6	16	0.7
0.033 "				6	16	0.7
0.047 "				6	16	0.7
0.068 "				6	16	0.7
0.1 μF				6	16	0.7
0.15 "				6	16	0.7
0.22 "	6	16	0.7	6.5	20.5	0.7
0.33 "	6	16	0.7	7	20.5	0.7
0.47 "	7	16	0.7	8	20.5	0.8
0.68 "	6.5	20.5	0.7	9	20.5	0.8
1.0 μF	7	20.5	0.7	9	20.5	0.8
1.5 "	9	20.5	0.8	10	24.5	0.8
2.2 "	9	20.5	0.8	11	24.5	0.8
3.3 "	10	24.5	0.8	11	33.5	0.8
4.7 "	11	24.5	0.8	14	33.5	0.8
6.8 "	12	33.5	0.8			
10 μF	14	33.5	0.8			

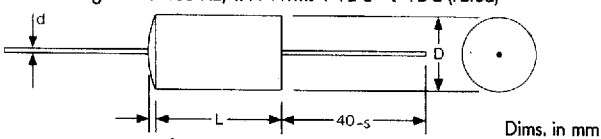
Figures refer to non-insulated model

Insulated sleeve: D + 0.5

L + 2 for case size $\leq 7 \times 20.5$

L + 1.5 for case size $\geq 8 \times 20.5$

* AC voltage: $f \leq 400 \text{ Hz}; 1.4 \times V_{\text{rms}} + \text{VDC} \leq \text{VDC (rated)}$



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WIMA MKB 5

Metallized polycarbonate capacitors with axial leads

- For stringent requirements. ■ Special design in close capacitance tolerances $\pm 10\%$, $\pm 5\%$, $\pm 2.5\%$ and $\pm 1\%$.
- In flat-oval metal cases.
- Available in insulated and non-insulated models.

Technical Data

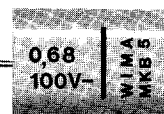
Complementary to the WIMA MKB 3 capacitors with similar electrical characteristics but designed specially to achieve close capacitance tolerances.

Temperature range: - 40° C to + 85° C.

Test category: 40/085/56 in accordance with IEC.

Capacitance tolerances: $\pm 10\%$, $\pm 5\%$, $\pm 2.5\%$, $\pm 1\%$.

All other data see WIMA MKB 3.



General Data

Capacitance	100 VDC / 63 VAC*				
	W	H	L	d/W	d/C
0.01 μF	6	10.5	16	0.6	0.8
0.015 "	6	10.5	16	0.6	0.8
0.022 "	6	10.5	16	0.6	0.8
0.033 "	6	10.5	16	0.6	0.8
0.047 "	6	10.5	16	0.6	0.8
0.068 "	6	10.5	16	0.6	0.8
0.1 μF	7	13	21	0.6	0.8
0.15 "	7	13	21	0.6	0.8
0.22 "	7	13	21	0.6	0.8
0.33 "	7	13	21	0.6	0.8
0.47 "	7	13	21	0.6	0.8
0.68 "	9.5	17.5	21	0.7	0.8
Capacitance	63 VDC / 40 VAC*				
1.0 μF	7	13	21	0.6	0.8
1.5 "	9.5	17.5	21	0.7	0.8
2.2 "	9.5	17.5	21	0.7	0.8
3.3 "	9.5	17.5	21	0.7	0.8
4.7 "	9.5	17.5	30	0.7	0.8
6.8 "	11	22	35	0.8	0.8
10 μF	11	22	35	0.8	0.8

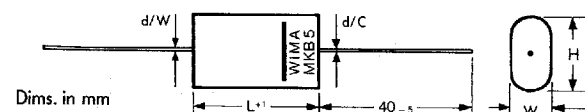
Figures refer to non-insulated model

Insulated sleeve: W and H + 0.5

L + 2 for case size $\leq 7 \times 13 \times 21$

L + 1.5 for case size $\geq 9.5 \times 17.5 \times 21$

* AC voltage: $f \leq 400 \text{ Hz}; 1.4 \times V_{\text{rms}} + \text{VDC} \leq \text{VDC (rated)}$



d/W = lead diameter (lead to winding section)

d/C = lead diameter (lead to can)

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