

WIMA MKC 3

PCM

7.5

Metallized polycarbonate capacitors in PCM 7.5 mm

- 0.01 μF to 0.68 μF PCM 7.5 mm.
- With the dielectric advantages of polycarbonate e.g. constant capacitance value with temperature.
- Alternative to PCM 5 mm with the possibility to be placed across wiring path.
- Available taped and reeled.

Technical Data

Dielectric: Polycarbonate film.

Capacitor electrodes: Vacuum-deposited aluminium.

Encapsulation: Flame-retardant plastic case, UL 94 V-0, with epoxy resin seal. Colour: Red. Marking: Black.

Temperature range: -55°C to $+100^{\circ}\text{C}$.

Test specifications: In accordance with IEC 60384-6 and EN 130 500.

Test category: 55/100/21 in accordance with IEC.

Insulation resistance at $+20^{\circ}\text{C}$:

Capacitance $\leq 0.33 \mu\text{F}$: $\geq 3.75 \times 10^3$ megohms
(mean value: 5×10^4 megohms)

Capacitance $> 0.33 \mu\text{F}$: ≥ 1250 sec
(megohms $\times \mu\text{F}$) (mean value: 3000 sec)

In accordance with IEC 60384-6 and EN 130 500
Measuring voltage: 100 V/1 min.

Dissipation factors at $+20^{\circ}\text{C}$:

$\tan \delta \leq 3 \times 10^{-3}$ at 1 kHz

$\tan \delta \leq 5 \times 10^{-3}$ at 10 kHz

$\tan \delta \leq 10 \times 10^{-3}$ at 100 kHz

Capacitance tolerances: $\pm 20\%$, $\pm 10\%$, $\pm 5\%$.

Temperature characteristics: See graph page 5.

Maximum pulse rise time:

Capacitance μF	Pulse rise time V/ μsec .	
	max. operation	test
0.01 ... 0.022	35	350
0.033 ... 0.068	20	200
0.1 ... 0.68	12.5	125

for pulses equal to the rated voltage.

Test voltage: $1.6 U_r$, 2 sec.

Vibration: 6 hours at 10 ... 2000 Hz and 0.75 mm displacement amplitude or 10 g in accordance with IEC 60068-2-6.

Low air density: 1 kPa = 10 mbar in accordance with IEC 60068-2-13.

Bump test: 4000 bumps at 390 m/sec^2 in accordance with IEC 60068-2-29.

Voltage derating: A voltage derating factor of 1% per K must be applied from $+85^{\circ}\text{C}$ for DC voltages and from $+75^{\circ}\text{C}$ for AC voltages.

Graphs see page 5.

General Data

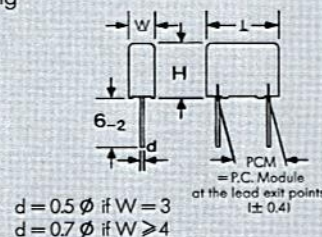
Capacitance	100 VDC / 63 VAC*				250 VDC / 160 VAC*			
	W	H	L	PCM**	W	H	L	PCM**
0.01 μF					3	8.5	10	7.5
0.015 "					3	8.5	10	7.5
0.022 "					3	8.5	10	7.5
0.033 "					3	8.5	10	7.5
0.047 "					4	9	10	7.5
0.068 "	3	8.5	10	7.5	4.5	9.5	10.3	7.5
0.1 μF	3	8.5	10	7.5	5	10.5	10.3	7.5
0.15 "	3	8.5	10	7.5				
0.22 "	4.5	9.5	10.3	7.5				
0.33 "	5	10.5	10.3	7.5				
0.47 "	5.7	12.5	10.3	7.5				
0.68 "	5.7	12.5	10.3	7.5				

* AC voltage: $f \leq 400 \text{ Hz}$;
 $1.4 \times U_{\text{rms}} + U_{\text{DC}} \leq U_r$

** PCM = Printed circuit
module = lead spacing

Dims. in mm

Taped version
see page 92.



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