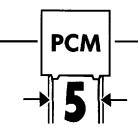
WIMA MKC 2

Metallized polycarbonate capacitors in PCM 5 mm



■ Polycarbonate dielectric for PCM 5 mm applications. ■ Constant capacitance value with temperature. Ideally suited for applications with wide temperature range, e.g. automotive (under the hood). ■ Produced in conformance with CECC 30 500. ■ Available taped and reeled.

Technical Data

Dielectric: Polycarbonate film.

Capacitor electrodes: Vacuum-deposited aluminium. **Encapsulation:** Flame-retardent plastic case, UL 94 V-O, with epoxy resin seal. Colour: Red. Marking: Black. **Temperature range:** -55° C to $+100^{\circ}$ C.

Test specifications: In accordance with IEC 384-6

and CECC 30500.

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

Insulation resistance at + 20° C:

V _r	V _{test}	C ≤ 0.33 µF	C = 0.47 μF
63 VDC	50 V	$\geqslant 3.75 \times 10^3 \mathrm{M}\Omega$ Mean value: $5 \times 10^4 \mathrm{M}\Omega$	≥ 1250 sec (MΩ × μF) Mean value: 3000 sec
100 VDC	100 V	\geqslant 3.75 \times 10 ³ M Ω Mean value: 5 \times 10 ⁴ M Ω	-

In accordance with IEC 384-6 and CECC 30500.

Measuring time: 1 min.

Dissipation factors at + 20° C:

 $\begin{array}{lll} \tan\,\delta \leqslant & 3\times 10^{-3} \text{ at} & 1 \text{ kHz} \\ \tan\,\delta \leqslant & 5\times 10^{-3} \text{ at} & 10 \text{ kHz} \end{array}$ tan $\delta \leq 10 \times 10^{-3}$ at 100 kHz

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

Temperature characteristics: See page 5.

Maximum pulse rise time:

Capacitance	Pulse rise time V/µsec			
μΕ	max. operation	test		
0.01 0.022	35	350		
0.033 0.068	20	200		
0.1 0.47	15	150		

for pulses equal to the rated voltage.

Test voltage: 1.6 Vr, 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.

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.

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

Graphs see page 5.

General Data

	63 VDC / 40 VAC*				100 VDC / 63 VAC*			
Capacitance	W			PCM	W	Н	L	PCM
0.01 µF		######################################			2.5	6.5	7.2	5
0.015	MINTERSE Cast of School			700138	2.5	6.5	7.2	5
0.022 "			CELCIO		2.5	6.5	7.2	5
0.033 "	2.5	6.5	7.2	5	2.5	6.5	7.2	5
0.047 "	2.5	6.5	7.2	5	2.5	6.5	7.2	5
0.068 "	3	7.5	7.2	5	3	7.5	7.2	5
0.1 uF	3.5	8.5	7.2	5	3.5	8.5	72	5.5
0.15	4.5	9.5	7.2	5	4.5	9.5	7.2	5
0.22	5	10	7.2	-5	5	10	7.2	5.
0.33 "	7.2	13	7.2	5	7.2	13	7.2	5
0.47 "	7.2	13	7.2	5	**************************************		14011100	CHEFTS CHATCES LIGHTS

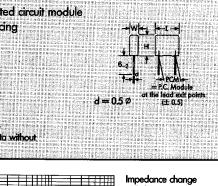
*AC voltage: f ≤ 400 Hz; $1.4 \times Vrms + VDC \leq VDC$ (rated)

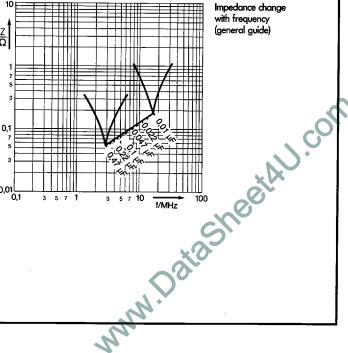
** PCM = Printed circuit module lead spacing

Dims. in mm.

Taped version see page 71.

Rights reserved to amend design data without prior notification.





with frequency (general guide)