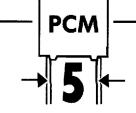
## **WIMA FKC 2**

## Polycarbonate film and foil capacitors for pulse applications in PCM 5 mm



■ Low induction and low damping with high resonant frequency. ■ With almost linear capacitance temperature coefficient. ■ High pulse duty. ■ Reservoir and decoupling capacitors for high-speed digital circuits. ■ Great variety of applications with severe temperature changes. ■ Close tolerances up to 2.5 %. ■ Available taped and reeled.

## **Technical Data**

**Dielectric:** Polycarbonate film. **Capacitor electrodes:** Metal foil.

**Encapsulation:** Flame-retardent plastic case, UL 94 V-O, with epoxy resin seal. Colour: Yellow. Marking: Black.

Temperature range: – 55° C to + 100° C.

Test specifications: In accordance with IEC 384-12 and CECC 31700.

Test category: 55/100/56 in accordance with IEC.

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

 $\geqslant$  5  $\times$  10<sup>5</sup> megohms (mean value: 1  $\times$  10<sup>6</sup> megohms) In accordance with IEC 384-12 and CECC 31700.

Measuring voltage: 100 V/1 min. **Dissipation factors** at  $+20^{\circ}$  C:  $\tan \delta \leq 2 \times 10^{-3}$  at 1 kHz  $\tan \delta \leq 4 \times 10^{-3}$  at 10 kHz  $\tan \delta \leq 8 \times 10^{-3}$  at 100 kHz

Capacitance tolerances:  $\pm$  20 %,  $\pm$  10 %,  $\pm$  5 %,  $\pm$  2.5 %.

Temperature characteristics: See graph page 5.

Maximum pulse rise time: 1000 V/microsecond for

pulses equal to the rated voltage.

Test voltage: 2 Vr, 2 sec.

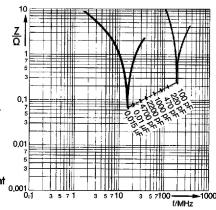
Vibration: 6 hours at 10...2000 Hz and 0.75 mm displacement

amplitude or 10 g in accordance with IEC 68-2-6.

**Low air density:**  $1 \, \text{kPa} = 10 \, \text{mbar in accordance with IEC 68-2-13.}$  **Bump test:**  $4000 \, \text{bumps at } 390 \, \text{m/sec}^2 \, \text{in accordance}$  with IEC 68-2-29.

**Voltage derating:** A voltage derating factor of 1% per K must be applied from + 85° C for DC voltages and from + 75° C for AC voltages.

Graphs see page 5.



Impedance change with frequency (general guide)

## **General Data**

Capacitance	100 VDC / 63 VAC*				250 VDC / 160 VAC				400 YDC / 220 VAC*			Still balling and a	*AC voltage: f < 400 Hz;
	W		PREPARE DE	PCM	W			PCM	₩.	#14 H 10 H		PCM	1.4 × Vrms + VDC ≤
100 pF	2.5	6.5	7.2	5	2.5	6.5	7.2	5	2.5	6.5	7,2	-5	VDC (rated) ***PCM=Printed circuit
150 🚚	2.5	6.5	7.2	5.	2,5	6.5	7.2	15	2.5	6.5	7.2		module = lead spacing
220 .	2.5	6.5	7.2	5	2.5	6.5	7.2	5	2,5	6.5	7.2	5	
330 ,	25	6.5	7.2	5	2.5	6.5	7.2	5	2.5	6.5	7.2	15	
470 🚬	2.5	6.5	7.2	5	25	6.5	7.2	5	2.5	6.5	7.2	5	A CONTROL OF THE PROPERTY OF T
680 .	2.5	6.5	7.2	5	2.5	6.5	7.2	5	3.5	8.5	7.2	5	Diras:in mm.
1000 pF	2.5	6.5	7.2	0005000 0005000 000500	3.5	8.5	7.2	5	3.5	8.5	7.2	415	
1500	2.5	6.5	7.2	5	3.5	8.5	7.2	1::5:::	3.5	8.5	7.2	5	
2200 "	2.5	65	7.2	5	3,5	8.5	7.2	5.	45	9.5	7.2	5	
3300 ,	2.5	6.5	7.2	5	4,5	9.5	7.2	5	Alebiacus Salabanas Salabanas		CARTAGORA CARTAGORA		PC/o
4700	3.5	8.5	7.2	5		64 F14 F15				DAIR IN CO.		derena de la composición del composición de la c	at the lead exit points
6800 ,	3.5	8.5	7.2	5			04-19910		12 12 14 14 12 1	7000 F		BRICE RES	The transport that the same property of
Porture Commence of the Commen	SETT OF MAIN	TIBUTE		**************************************	Parocahi National	Aleberta Secretai	FILLIZE:	0.0000000		24 HR414 A	10010000	BESTERNING	Taped version see page 71.
0.01 µF 0.015 .	4.5 4.5	9.5 9.5	7.2 7.2	5									Rights reserved to amend design data without prior notification.