



## Product Range

SMD  
PCM 2,5 mm  
PCM 5.0 mm  
PCM 7.5 - 37.5 mm  
metallized  
PCM 7.5 - 15 mm  
film/foil  
For high current  
ratings  
Snubber capacitors  
RFI-capacitors

Who is WIMA

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SMD-Sample Box

## TECHNICAL SPOTLIGHT

MKS 2

MKP 2

MKM2

FKS 2

FKP 2

FKM2

PDF-File

PCM 5.0 mm

# WIMA FKP 2



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

■ For all applications from the millivolt range up to 1000 VDC rated. ■ For substitution of polystyrene capacitors e.g. in audio applications and HF technique. ■ Close tolerances up to 1%. ■ Low loss and low damping capacitors with high resonant frequency. ■ Constantly negative TKc. ■ For all pulse applications with high repetition frequency like switch mode power supplies, ballasts, etc. ■ Available taped and reeled.

### Technical Data / [General Data](#)

**Dielectric:** Polypropylene film.

**Capacitor electrodes:** Metal foil.

**Encapsulation:** Flame retardent plastic case, UL 94 V-0, with epoxy resin seal.

Colour: Red. Epoxy resin seal: Yellow. Marking: Black.

**Temperature range:** -55° C to +100° C.

**Test specifications:** In accordance with IEC 60384-13 and EN 131800.

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

**Insulation resistance** at +20° C:

$\geq 5 \times 10^5 \text{ M}\Omega$  (mean value:  $1 \times 10^6 \text{ M}\Omega$ )

In accordance with IEC 60384-13 and EN 131800.

Measuring voltage:

$U_r = 63 \text{ V}$ ;  $U_{\text{test}} = 50 \text{ V/1 min.}$

$U_r \geq 100 \text{ V}$ ;  $U_{\text{test}} = 100 \text{ V/1 min.}$

**Capacitance tolerances:**  $\pm 10\%$ ,  $\pm 5\%$ ,  $\pm 2.5\%$ , ( $\pm 1\%$  available subject to special enquiry).

**Test voltage:** 2  $U_r$ , 2 sec.

**Temperature coefficient:**

$-200 \times 10^{-6}$  per degree C (typical).

**Maximum pulse rise time:** 1000 V/ $\mu\text{sec}$  for pulses equal to the rated voltage.

**Dissipation factors** at +20° C: tan delta

| at f    | $C \leq 1000 \text{ pF}$ | $1000 \text{ pF} < C \leq 4700 \text{ pF}$ | $4700 \text{ pF} < C \leq 0.033 \mu\text{F}$ |
|---------|--------------------------|--------------------------------------------|----------------------------------------------|
| 1 kHz   | $\leq 3 \times 10^{-4}$  | $\leq 4 \times 10^{-4}$                    | $\leq 4 \times 10^{-4}$                      |
| 10 kHz  | $\leq 3 \times 10^{-4}$  | $\leq 4 \times 10^{-4}$                    | $\leq 4 \times 10^{-4}$                      |
| 100 kHz | $\leq 4 \times 10^{-4}$  | $\leq 5 \times 10^{-4}$                    | -                                            |
| 1 MHz   | $\leq 10 \times 10^{-4}$ | -                                          | -                                            |

**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<sup>2</sup> in accordance with IEC 60068-2-29.

**Voltage derating:** A voltage derating factor of 1.35% per K must be applied from +85° C for DC voltages and from +75° C for AC voltages.

[Graphs:](#) / [Taping:](#)

[Example for ordering/Part number](#)

Impedance change with frequency (general guide)

