



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

News

Representations

Contact

Technical Information

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:

-200×10^{-6} per degree C (typical).

Maximum pulse rise time: 1000 V/ μsec 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/sec² 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)

