

WIMA MKS 3



Metallized polyester capacitors in PCM 7.5 mm

- 1000 pF to 2.2 μF in PCM 7.5 mm. ■ For general applications. ■ Alternative to PCM 5 mm with possibility to be placed across wiring path. ■ Available taped and reeled.

Technical Data

Dielectric: Polyethylene terephthalate 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° C.

Test specifications: In accordance with IEC 60384-2 and EN 130400 (u. prep.).

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

Insulation resistance at +20° C:

U _r	U _{test}	C ≤ 0.33 μF	0.33 μF < C ≤ 2.2 μF
50 VDC	10 V	-	≥ 1500 sec. (MΩ × μF) Mean value: 4500 sec.
63 VDC	50 V	≥ 1 × 10 ⁴ MΩms Mean value: 5 × 10 ⁴ MΩms	≥ 3000 sec. (MΩ × μF) Mean value: 6000 sec.
≥ 100VDC	100V	≥ 1.5 × 10 ⁴ MΩms Mean value: 1 × 10 ⁵ MΩms	≥ 5000 sec. (MΩ × μF) Mean value: 10000 sec.

In accordance with IEC 60384-2 and EN 130400 (u. prep.).

Measuring time: 1 min.

Capacitance tolerances: +/-20%, +/-10%, +/-5%.

Dissipation factors at +20° C: tan delta

at f	C ≤ 0.1 μF	0.1 μF < C ≤ 1.0 μF	C > 1.0 μF
1 kHz	≤ 8 × 10 ⁻³	≤ 8 × 10 ⁻³	≤ 10 × 10 ⁻³
10 kHz	≤ 15 × 10 ⁻³	≤ 15 × 10 ⁻³	-
100 kHz	≤ 30 × 10 ⁻³	-	-

Maximum pulse rise time:

Capacitance pF/μF	Pulse rise time V/μsec max. operation/test					
	50VDC	63VDC	100VDC	250VDC	400VDC	630VDC
1000...6800	-	-	-	60/600	60/600	60/600
0.01...0.022	-	-	30/300	30/300	60/600	60/600
0.033...0.068	-	15/150	15/150	20/200	60/600	60/600
0.1...0.15	-	10/100	15/150	15/150	-	-
0.22...1.0	8/80	8/80	10/100	12/120	-	-
1.5...2.2	6/60	-	-	-	-	-

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/sec² in accordance with IEC 60068-2-29.

Voltage derating: A voltage derating factor of 1.25% per K must be applied from +85° C for DC voltages and from +75° C for AC voltages.

General Data

Capacitance	50 VDC/ 30 VAC*				63 VDC/ 40 VAC*				100 VDC/ 63 VAC*				250 VDC/ 160 VAC*				400 VDC/ 200 VAC*				630 VDC/ 220 VAC*			
	W	H	L	PCM**	W	H	L	PCM**	W	H	L	PCM**	W	H	L	PCM**	W	H	L	PCM**	W	H	L	PCM**
1000pF																								
1500 "																					2.5	7	10	7.5
2200 "																					2.5	7	10	7.5
3300 "																	2.5	7	10	7.5	2.5	7	10	7.5
4700 "																	2.5	7	10	7.5	2.5	7	10	7.5
6800 "													2.5	7	10	7.5	3	8.5	10	7.5	3	8.5	10	7.5
0.01 μF													2.5	7	10	7.5	3	8.5	10	7.5	3	8.5	10	7.5
0.015 "													2.5	7	10	7.5	4	9	10	7.5	4	9	10	7.5
0.022 "									2.5	7	10	7.5	3	8.5	10	7.5	4.5	9.5	10.3	7.5	4.5	9.5	10.3	7.5
0.033 "									2.5	7	10	7.5	3	8.5	10	7.5	5	10.5	10.3	7.5	5	10.5	10.3	7.5
0.047 "									2.5	7	10	7.5	3	8.5	10	7.5	5.7	12.5	10.3	7.5	5.7	12.5	10.3	7.5
0.068 "					2.5	7	10	7.5	3	8.5	10	7.5	4	9	10	7.5								
0.1 μF					2.5	7	10	7.5	3	8.5	10	7.5	5	10.5	10.3	7.5								
0.15 "					2.5	7	10	7.5	3	8.5	10	7.5	5	10.5	10.3	7.5								
0.22 "					3	8.5	10	7.5	4	9	10	7.5	5	10.5	10.3	7.5								
0.33 "					4	9	10	7.5	4.5	9.5	10.3	7.5	5.7	12.5	10.3	7.5								
0.47 "					4.5	9.5	10.3	7.5	5	10.5	10.3	7.5												
0.68 "					5	10.5	10.3	7.5	5.7	12.5	10.3	7.5												

