

# WIMA MKS 33

PCM

7.5

## Metallized polyester capacitors in PCM 7.5 mm

- 1000 pF to 0.15  $\mu$ F in 2.5 mm wide case. ■ Due to box height of only 7 mm ideally suited for slide-in technology.
- Reservoir, coupling and decoupling capacitors as an 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-retardent plastic case, UL 94 V-O, with epoxy resin seal. Colour: Red. Marking: White.

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

**Test specifications:** In accordance with IEC 384-2 and CECC 30 400.

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

**Insulation resistance** at +20° C:

$\geq 3.75 \times 10^3$  megohms (mean value:  $1 \times 10^4$  megohms)

In accordance with IEC 384-2 and CECC 30 400.

Measuring voltage:  $V_r = 63$  V;  $V_{test} = 50$  V/1 min.

$V_r \geq 100$  V;  $V_{test} = 100$  V/1 min.

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

**Dissipation factors** at +20° C:

$\tan \delta \leq 8 \times 10^{-3}$  at 1 kHz

$\tan \delta \leq 15 \times 10^{-3}$  at 10 kHz

$\tan \delta \leq 30 \times 10^{-3}$  at 100 kHz

**Temperature characteristics:** See graph page 5.

### Maximum pulse rise time:

Capacitance pF/ $\mu$ F	Pulse rise time V/ $\mu$ sec	
	max. operation	test
1000 ... 6800	60	600
0.01 ... 0.022	30	300
0.033 ... 0.068	15	150
0.1 ... 0.15	10	100

for pulses equal to the rated voltage.

**Test voltage:** 1.6  $V_r$ , 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/sec<sup>2</sup> in accordance with IEC 68-2-29.

**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.

Graphs see page 5.

### General Data

Capacitance	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**
1000 pF																	2.5	7	10	7.5
1500 „																	2.5	7	10	7.5
2200 „													2.5	7	10	7.5				
3300 „													2.5	7	10	7.5				
4700 „													2.5	7	10	7.5				
6800 „										2.5	7	10	7.5							
0.01 $\mu$ F										2.5	7	10	7.5							
0.015 „										2.5	7	10	7.5							
0.022 „					2.5	7	10	7.5												
0.033 „					2.5	7	10	7.5												
0.047 „					2.5	7	10	7.5												
0.068 „	2.5	7	10	7.5																
0.1 $\mu$ F	2.5	7	10	7.5																
0.15 „	2.5	7	10	7.5																

\* AC voltage:  $f = 50$  Hz;

$1.4 \times V_{rms} + VDC \leq VDC$  (rated)

\*\* PCM = Printed circuit module = lead spacing

Taped version see page 71.

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Dims. in mm.

