



Metallized polyester capacitors in PCM 2.5 mm

■ Ideally suited for decoupling up to high-frequency ranges. ■ Very advantageous volume/capacitance ratio. ■ Wide capacitance range with smallest box sizes. ■ PCM 2.5 mm technology with low self-inductance for low damping applications. ■ 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:** White.
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:

Maximum pulse rise time:

Capacitance pF/μF	Pulse rise time V/μsec	
	max. operation	test
1000...2200	175	1750
3300...6800	100	1000
0.01...0.022	50	500
0.033...0.068	30	300
0.1...0.33	20	200
0.47 ...1.0	15	150
1.5	12	120

Ur	Utest	C ≤ 0.33 μF	0.33 μF < C ≤ 1.5 μF
16 VDC	10 V	≥ 3.75 x 10 ³ MOhms Mean value: 1x10 ⁴ MOhms	≥ 1250 sec (MOhms x μF) Mean value: 3000 sec
50 VDC	10 V	≥ 3.75 x 10 ³ MOhms Mean value: 1x10 ⁴ MOhms	≥ 1250 sec (MOhms x μF) Mean value: 3000 sec
63 VDC	50 V	≥ 1 x 10 ⁴ MOhms Mean value: 2x10 ⁴ MOhms	-
100VDC	100V	≥ 1.5 x 10 ⁴ MOhms Mean value: 3x10 ⁴ MOhms	-

for pulses equal to the rated voltage.

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.

In accordance with IEC 60384-2 and EN 130400 (u. prep.).
 Measuring time: 1 min.

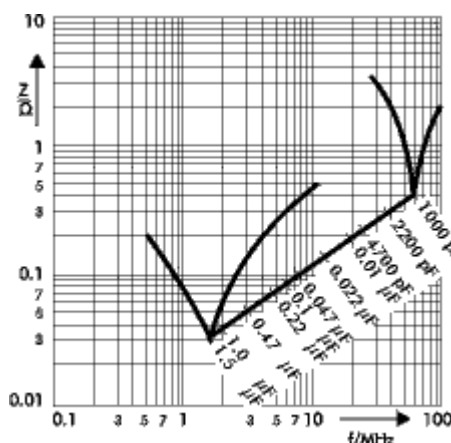
Capacitance tolerances: +/-20%, +/-10%, (+/-5% available subject to special enquiry).

Test voltage: 1.6 Vr, 2 sec.

Dissipation factors at +20° C: tan delta

at f	C ≤ 0.1 μF	0.1 μF < C ≤ 1.5 μF
1 kHz	≤ 8 x 10 ⁻³	≤ 8 x 10 ⁻³
10 kHz	≤ 15 x 10 ⁻³	≤ 15 x 10 ⁻³
100 kHz	≤ 25 x 10 ⁻³	-

Impedance change with frequency
(general guide)



Capacitance	16 VDC/ 10 VAC*				50 VDC/ 30 VAC*				63 VDC/ 40 VAC*				100 VDC/ 63 VAC*				* AC voltage: f = 50 Hz; 1.4 x Urms + UDC <= Ur
	W	H	L	PCM**	W	H	L	PCM**	W	H	L	PCM**	W	H	L	PCM**	
1000 pF	2.5	5.5	4.6	2.5					2.5	7	4.6	2.5	2.5	7	4.6	2.5	
1500 "	2.5	5.5	4.6	2.5					2.5	7	4.6	2.5	2.5	7	4.6	2.5	
2200 "	2.5	5.5	4.6	2.5					2.5	7	4.6	2.5	2.5	7	4.6	2.5	
3300 "	2.5	5.5	4.6	2.5					2.5	7	4.6	2.5	2.5	7	4.6	2.5	
4700 "	2.5	5.5	4.6	2.5					2.5	7	4.6	2.5	2.5	7	4.6	2.5	
6800 "	2.5	5.5	4.6	2.5					2.5	7	4.6	2.5	2.5	7	4.6	2.5	
0.01 µF	2.5	5.5	4.6	2.5					2.5	7	4.6	2.5					
0.015 "	2.5	5.5	4.6	2.5					2.5	7	4.6	2.5					
0.022 "	2.5	5.5	4.6	2.5					2.5	7	4.6	2.5					
0.033 "	2.5	5.5	4.6	2.5					2.5	7	4.6	2.5					
0.047 "	2.5	5.5	4.6	2.5					2.5	7	4.6	2.5					
0.068 "	2.5	5.5	4.6	2.5					3	7.5	4.6	2.5					
0.1 µF	2.5	5.5	4.6	2.5					3	7.5	4.6	2.5					
0.15 "	3	7.5	4.6	2.5	3	7.5	4.6	2.5									
0.22 "	3	7.5	4.6	2.5	3	7.5	4.6	2.5									
0.33 "	3.8	8.5	4.6	2.5	3.8	8.5	4.6	2.5									
0.47 "	4.6	9	4.6	2.5	4.6	9	4.6	2.5									
0.68 "	4.6	9	4.6	2.5	4.6	9	4.6	2.5									
1.0 µF	5.5	10	4.6	2.5	5.5	10	4.6	2.5									
1.5 "	5.5	10	4.6	2.5													

**PCM = Printed circuit module
= lead spacing.

Dims. in mm

d = 0.4

Ø

W

H

L

d

PCM
= P.C. Module
at the lead exit points
(± 0.5)

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