WIMA MP 3-X2

Metallized paper RFI capacitors in accordance with IEC 60384-14/2 and EN 132 400 class X2

- **Particularly high reliability against active and passive flammability.**
- **Problem-free clearing.**
- **For temperatures up to 110° C.**
- **High disruptive test and DC strength.**
- **Good attenuation and low ESR for high degree of interference suppression.**
- **Available taped and reeled up to and including PCM 22.5 mm.**

Technical Data

Dielectric: Paper, epoxy resin impregnated.
Capacitor electrodes: Vacuum-deposited.
Encapsulation: Flame-retardent epoxy resin
UL 94 V-0, metal foil.
Temperature range: -40° C to +110° C
Test specifications: In accordance with
DIN EN 132 400.
Test category: 40/110/56/C in accordance with IEC.
Insulation resistance at +20° C:
C <= 0.33 µF: >= 12 x 10^3 megohms
C > 0.33 µF: >= 4000 sec (megohms x µF)
In accordance with DIN EN 132 400.
Measuring voltage: 100 V/1 min.
Dissipation factor: tan delta <= 13 x 10^{-3}
at 1 kHz and +20° C.
Capacitance tolerance: +/- 20%.
Maximum pulse rise time:

Capacitance pF/µF	Pulse rise time V/µsec max. operation
1000	1000
1500	600
2200...4700	450
6800...0.022	300
0.033...0.047	200
0.068 ...1.0	100

in accordance with DIN EN 132 400.
Test voltage: 2700 VDC, 2 sec.

General Data

Capacitance	250 VAC*				275 VAC*			
	W	H	L	PCM**	W	H	L	PCM**
1000 pF	4	8.5	13.5	10	4	8.5	13.5	10
1500 "	4	8.5	13.5	10	4	8.5	13.5	10
2200 "	4	8.5	13.5	10	4	8.5	13.5	10
3300 "	4	8.5	13.5	10	4	8.5	13.5	10
4700 "	5	10	13.5	10	5	10	13.5	10
6800 "	5	13	19	15	5	13	19	15
0.01 µF	5	13	19	15	5	13	19	15
0.015 "	5	13	19	15	5	13	19	15
0.022 "	5	13	19	15	5	13	19	15
0.033 "	6	14	19	15	6	14	19	15
0.047 "	7	15	19	15	7	15	19	15
0.068 "	8	17	19	15	8	17	19	15
0.1 µF	10	18	19	15*	10	18	19	15*
	8	20	28	22.5*	8	20	28	22.5*
0.15 "	8	20	28	22.5	8	20	28	22.5
0.22 "	10	22	28	22.5	10	22	28	22.5
0.33 "	12	24	28	22.5	12	24	28	22.5
0.47 "	13	25	33	27.5	13	25	33	27.5
0.68 "	15	26	33	27.5	15	26	33	27.5
1.0 µF	20	32	33	27.5	20	32	33	27.5

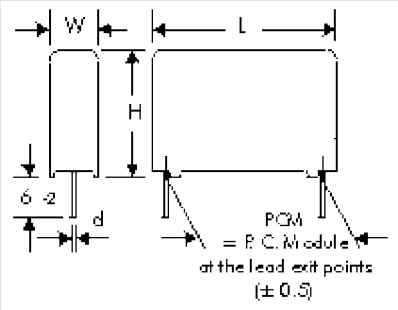
* f = 50 Hz;
**PCM = Printed circuit module = lead spacing

Also available in E12-values.

Upon request with long leads either: 35-2 mm max. or insulated: 40 mm max., bare ends 9 mm.

* On ordering please state the required PCM (lead spacing).
If not specified, smaller PCM will be booked.

Dims in mm.



d = 0.7 Ø if PCM 10
d = 0.8 Ø if PCM >= 15

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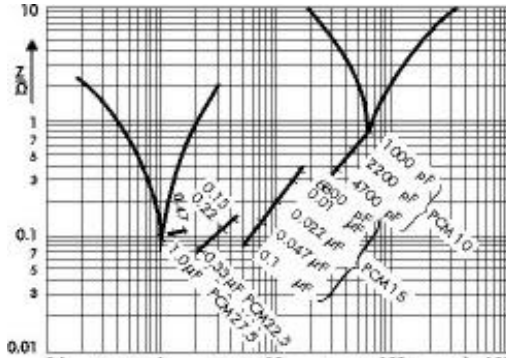
MP 3-X2 Approvals			
Country	Authority	Specification	Approval No.
Germany	VDE	DIN EN 132 400 IEC 60384-14/2	89749
USA	UL	UL 1283 UL 478	E 100438 (M) E 100438 (M)
Canada	CSA	C 22.2 No. 8	LR 93312-1

Impedance change with frequency
(general guide)



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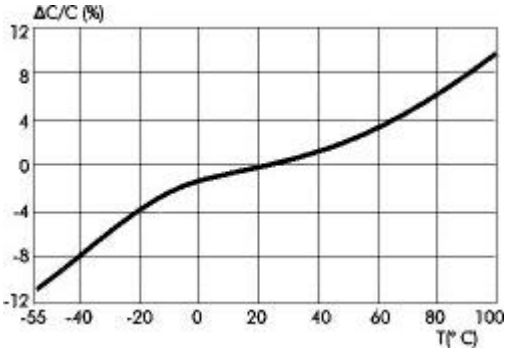
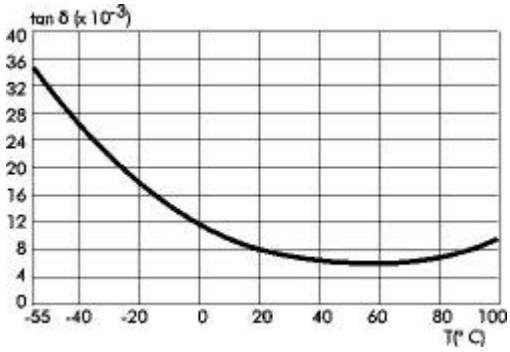
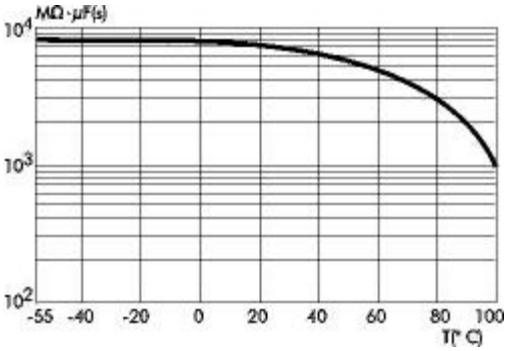
Typical graphs of metallized paper RFI capacitors



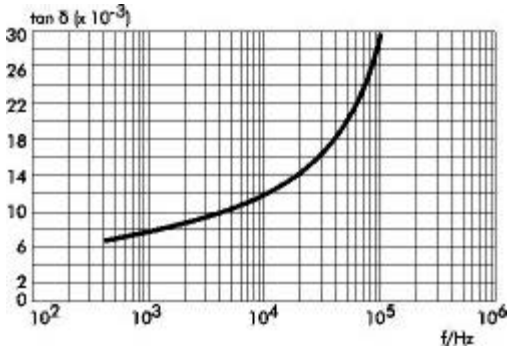
Capacitance change with temperature
(f=1 kHz) (general guide)



Dissipation factor change with temperature
(f=1 kHz) (general guide)



Insulation resistance change with temperature
(general guide)



Dissipation factor change with frequency
(general guide)