WIMA MP 3-Y2

Metallized Paper (MP) RFI-Capacitors Class Y2 PCM 10 mm and 15 mm 勝 特 力 材 料 886-3-5753170 胜特力电子(上海) 86-21-54151736 胜特力电子(深圳) 86-755-83298787 Http://www.100y.com.tw



Special Features

- Particularly high reliability against active and passive flammability
- Excellent self-healing as well as high voltage strength
- High degree of interference suppression due to good attenuation and low ESR
- For temperatures up to +110° C
- According to RoHS 2002/95/EC

Typical Applications

Class Y2 RFI applications to meet EMC regulations

- Capacitors connected to the mains between phase or neutral and earthed casing
- By-passing of the basic or supplementary insulation, pulse peak voltage ≤ 5 kV

Construction

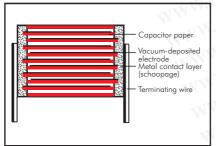
Dielectric:

Paper, epoxy resin impregnated

Capacitor electrodes:

Vacuum-deposited

Internal construction:



Encapsulation:

Self-extinguishing epoxy resin, UL 94 V-0. metal foil

Terminations:

Tinned wire.

Marking:

Marking: Black on Silver.

Electrical Data

Capacitance range:

1000 pF to 0.022 µF (E12-values on request)

Rated voltages:

250 VAC

Capacitance tolerances:

±20%

Operating temperature range:

-40° C to +110° C

Climatic test category:

40/110/56/C in accordance with IEC **Insulation resistance** at +20° C:

 $\geq 12 \times 10^3 M\Omega$

Measuring voltage: 100 V/1 min.

Dissipation factors:

tan $\delta \le 13 \times 10^{-3}$ at 1 kHz and +20° C

Test specifications:

In accordance with DIN EN 132400

Approvals:

		- 11111		
Country	Authority	Specification	Symbol	Approval-No.
Germany	VDE	DIN EN 132400 IEC 60384-14/2	DVE EN 132 400	87455
CUSA	UL	UL 1283	W.	E 100438
Canada	CSA	C 22.2 No. 8	(P)	LR 93312-1
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Maximum pulse rise time:

	Capacitance pF/ µ F	Pulse rise time V/µsec max. operation		
	1000			
	1500	600		
	2200 4700	450		
Í	6800 0.022	300		

for pulses equal to the rated voltage, $U_{\rm pp} = 355~{\rm V}$

Test voltage: 2700 VDC, 2 sec. Reliability:

Operating life > 300 000 hours Failure rate < 1 fit (0.5 x U, and 40° C)

Packing

Available taped and reeled.

Detailed taping information and graphs at the end of the catalogue.

For further details and graphs please refer to Technical Information.

WIMA MP 3-Y2

Continuation







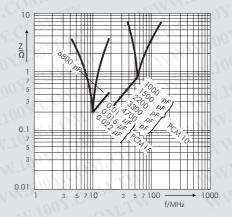
General Data

Capacitance	250 VAC*					
Capacilarice	W	10H	I I	PCM**		
1000 pF	4	8.5	13.5	10 10		
1500 "	4	8.5	13.5	10		
2200 "	4	8.5	13.5	10 CO		
3300 "	4	8.5	13.5	10 COM		
4700 "	5	10	13.5	10 COM		
6800 "	5	13	19	15		
0.01 μF	OY.CO 5	13	19	15		
0.015 "	CO 6	14	19	15		
0.022 "	100 - C(2)/1.1	15	CON 19	15 C		

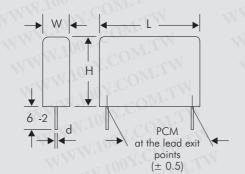
^{*} f = 50/60 Hz

Upon request with long leads 35-2 mm max.

Taped version see page 100.



Impedance change with frequency (general guide)



 $d = 0.7 \, \text{Ø} \text{ if PCM } 10$ d = 0.8 Ø if PCM 15

Rights reserved to amend design data without prior notification.

^{**} PCM = Printed circuit module = lead spacing

Typical Graphs of Metallized Paper RFI Capacitors

valid for:

MP 3-X2

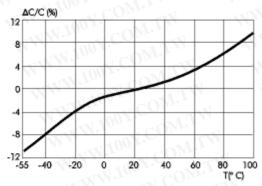
MP 3-X1

MP 3-Y2

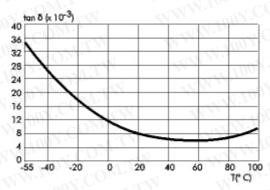
MP 3R-Y2

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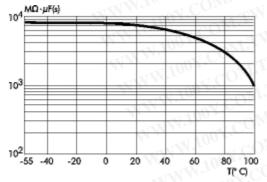
Http://www.100y.com.tw



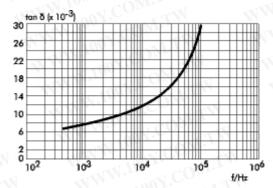
Capacitance change with temperature (f=1 kHz) (general guide)



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



Insulation resistance change with temperature (general guide)



Dissipation factor change with frequency (general guide)

Recommendation for Processing and Application of Through-Hole Capacitors

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Soldering Process

A preheating of through-hole WIMA capacitors is allowed for temperatures $T_{max.} < 100$ °C. In practice a preheating duration of t < 5 min. has been proven to be best.

Single wave soldering:

Soldering bath temperature: T < 260°C

Immersion time: t < 5 sec

Double wave soldering:

Soldering bath temperature T < 260°C

Immersion time: 2 x t < 3 sec

Wave Soldering

Temperature/time graph for the maximum permissible solder bath temperature for the wave soldering of through-hole WIMA capacitors.

