



Mag Layers USA, INC

Specification Sheet

P/N : **MCM-0905-202-F-RU**

Products:

[Molded Power Chokes](#)

[Multilayer Chip Inductors](#)

[Lan Transformer](#)

[RF Passive / Antennas](#)

[Automotive](#)

Certifications:

[ISO9001](#)

[IATF16949](#)

[ISO14001](#)

[QC080000](#)

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I. SCOPE :

This specification applies to the Pb Free Signal Line Common Mode Filter
for MCM-0905-SERIES-□-□□

PRODUCT IDENTIFICATION

MCM - 0905 - 202 - F - □□-RU

① ② ③ ④

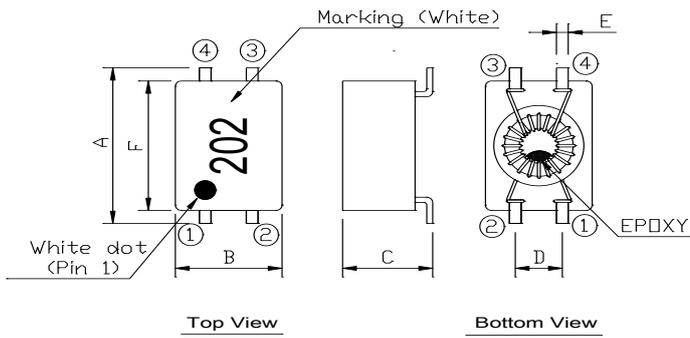
- ① Product Code
- ② Dimensions Code
- ③ Impedance Code
- ④ Inner Control Code

II. INDEX :

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<p>Unless otherwise specified, test condition should be Temp. = 20±5℃, Humidity = 35~85%</p> <p>But if needed, then test condition should be Temp. = 20±2℃, Humidity = 65±5%</p> <p>8.SHELF LIFE</p> <p>Storage Condition:The temperature should be within-40℃ ~105℃ and humidity should be less than 75%RH. The product should be used within 12 months from the time of delivery.</p> <p>In addition, suggest to use product within 6 months from the time of delivery.</p>		



(1) SHAPES AND DIMENSIONS



A: 8.9 ± 0.5	mm
B: 5.4 ± 0.3	mm
C: 5.0 Max.	mm
D: 2.54 ± 0.3	mm
E: 0.5 Typ.	mm
F: 7.3 ± 0.3	mm

(2) ELECTRICAL SPECIFICATIONS

SEE TABLE 1

TEST INSTRUMENTS

Z : HP 4285A PRECISION LCR METER (or equivalent)

RDC : CHROMA MODEL 16502 MILLIOHM METER (or equivalent)

I.R : CHROMA MODEL 19073 AC/DC/IR HIPOT TESTER (or equivalent)

(3) CHARACTERISTICS

(3)-1 Operate temperature range $-40^{\circ}\text{C} \sim +125^{\circ}\text{C}$

(Including self temp. rise)

(3)-2 Storage temperature range $-40^{\circ}\text{C} \sim +125^{\circ}\text{C}$

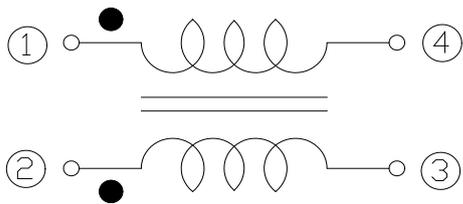


TABLE 1

MAGLAYERS PT/NO.	Impedance(Ω) at 10MHz		Resistance RDC (Ω) Max. (1 line)	Rated Current (A) Max.	Insulation Resistance (M Ω) Min.	Rated Voltage (V) Max.	Marking
	Min.	Typ.					
MCM-0905-202-F-□□-RU	1000	2000	0.25	0.5	100	80	●202

IDC : Based on temperature rise ($\Delta T : 40^{\circ}\text{C}$ Typ.)

CIRCUIT DIAGRAM

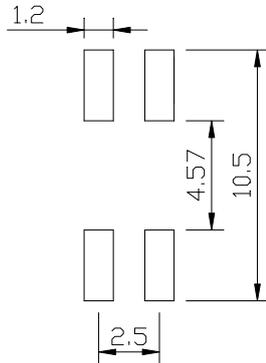


(5) LAND DIMENSION (Ref.)

PCB: GLASS EPOXY t=1.6mm

(5)-1 LAND PATTERN DIMENSIONS

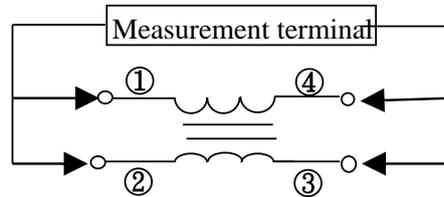
(STANDARD PATTERN)



(6) TEST EQUIPMENT

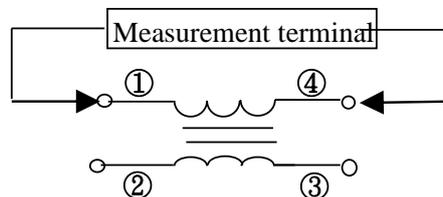
(6)-1 Impedance

Measured by HP4291B RF Impedance Analyzer.



(6)-2 DC Resistance

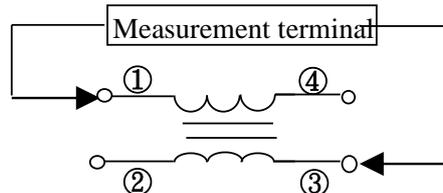
Measured by Chroma 16502 milliohm meter.



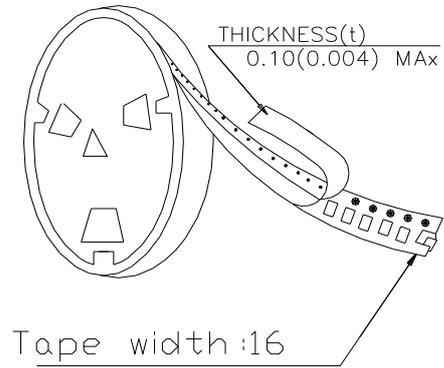
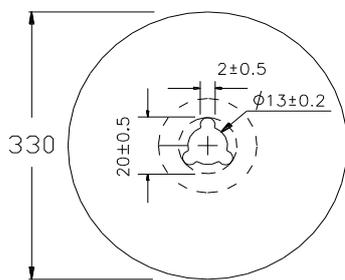
(6)-3 Insulation Resistance

Measured by Chroma 19073

Measurement voltage : 50V ,Measurement time : 3 sec.



MAG.LAYERS



(7)-4 QUANTITY

1000 pcs/Reel

The products are packaged so that no damage will be sustained.



TYPICAL ELECTRICAL CHARACTERISTICS

