# Surface Mount Common Mode Choke



## FEATURES

- Operating temperature: -40 °C to +85 °C
- Excellent solderability and resistance to soldering heat
- Suitable for flow and reflow soldering
- High reliability and easy surface mount assembly
- Material categorization: for definitions of compliance please see www.vishay.com/doc?99912

Pb-free

RoHS COMPLIANT

## APPLICATIONS

- USB 2.0 and IEEE1394
- Notebook and personal computer
- Digital camera
- Scanner

## STANDARD ELECTRICAL SPECIFICATIONS

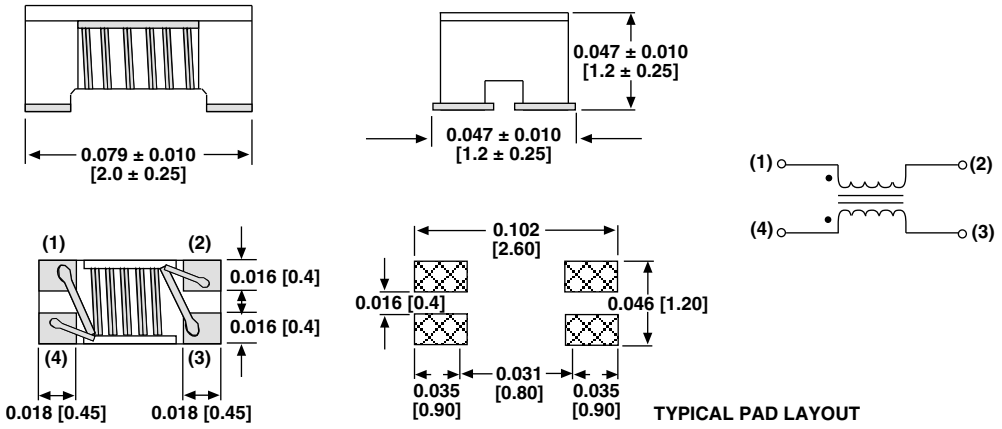
| COMMON MODE IMPEDANCE AT 100 MHz, ± 20 % (Ω) (1) | RATED VOLTAGE ($V_{DC}$) | WITHSTANDING VOLTAGE ($V_{DC}$) | RATED CURRENT MAX. (mA) (2) | DC RESISTANCE MAX. (Ω) | INSULATION RESISTANCE MIN. (MΩ) |
|---|---|---|---|---|---|
| 30 | 50 | 125 | 450 | 0.20 | 10 |
| 67 | 50 | 125 | 400 | 0.25 | 10 |
| 90 | 50 | 125 | 330 | 0.35 | 10 |
| 120 | 50 | 125 | 370 | 0.30 | 10 |
| 160 | 50 | 125 | 350 | 0.35 | 10 |
| 180 | 50 | 125 | 330 | 0.35 | 10 |
| 260 | 50 | 125 | 300 | 0.40 | 10 |
| 370 | 50 | 125 | 280 | 0.45 | 10 |

**Notes**

(1) Impedance is measured in HP4287A at a frequency of 100 MHz.

(2) For a 15 °C rise.

## DIMENSIONS in inches [millimeters]




## DESCRIPTION

| ICM-0805 | 120 | ± 20 % | ER | e3 |
|---|---|---|---|---|
| MODEL | IMPEDANCE VALUE | INDUCTANCE TOLERANCE | PACKAGE CODE | JEDEC® LEAD (Pb)-FREE STANDARD |

## GLOBAL PART NUMBER

| I | C | M | 0 | 8 | 0 | 5 | E | R | 1 | 2 | 1 | M |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| PRODUCT FAMILY | | | SIZE | | | | PACKAGE CODE | | IMPEDANCE | | | TOL. |



For technical questions, contact: magnetics@vishay.com

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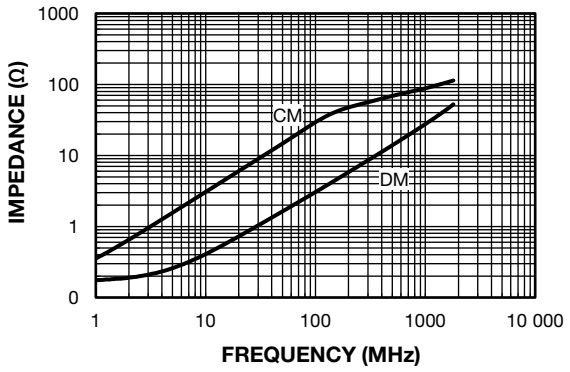
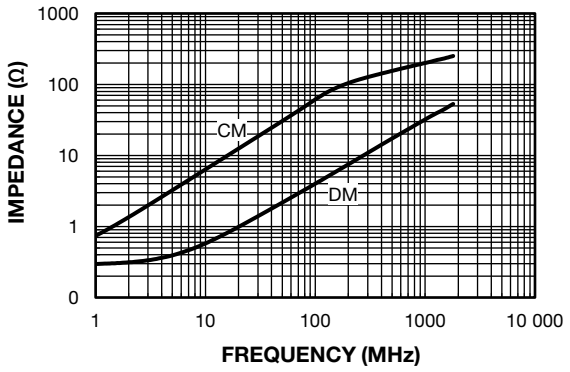
## PERFORMANCE GRAPHS: IMPEDANCE VS. FREQUENCY CHARACTERISTICS

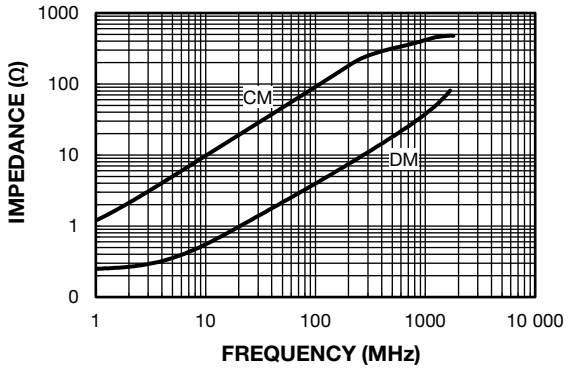
30 Ω



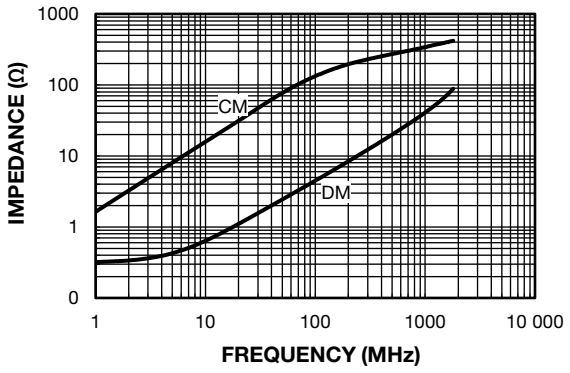

67 Ω



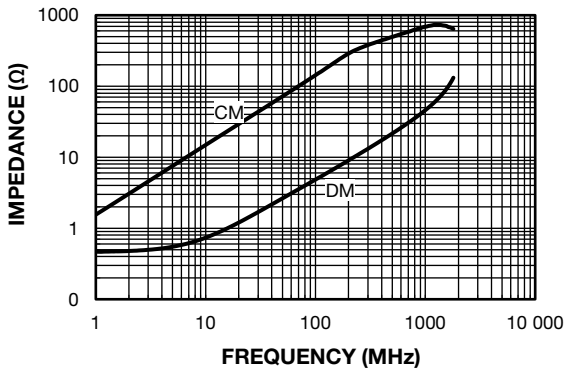

90 Ω



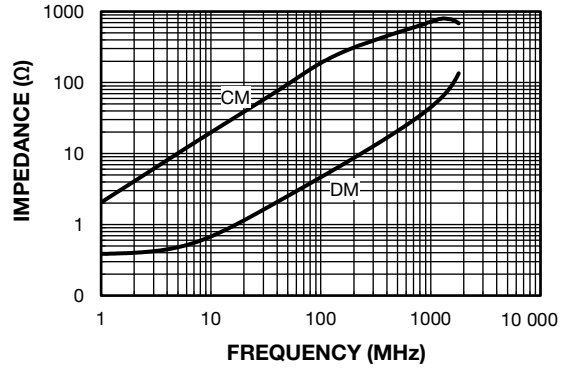

120 Ω



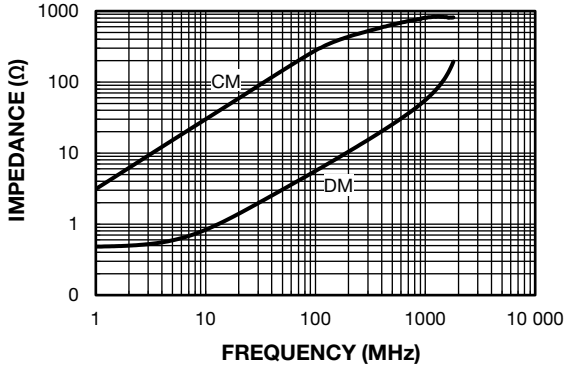

160 Ω



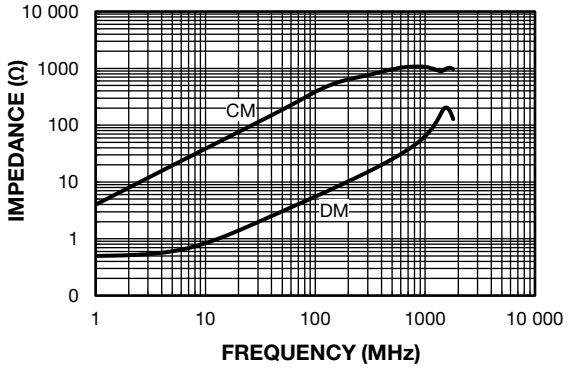

180 Ω




260 Ω




370 Ω



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