

# 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](http://www.vishay.com/doc?99912)


**RoHS**  
COMPLIANT

## APPLICATIONS

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

## STANDARD ELECTRICAL SPECIFICATIONS

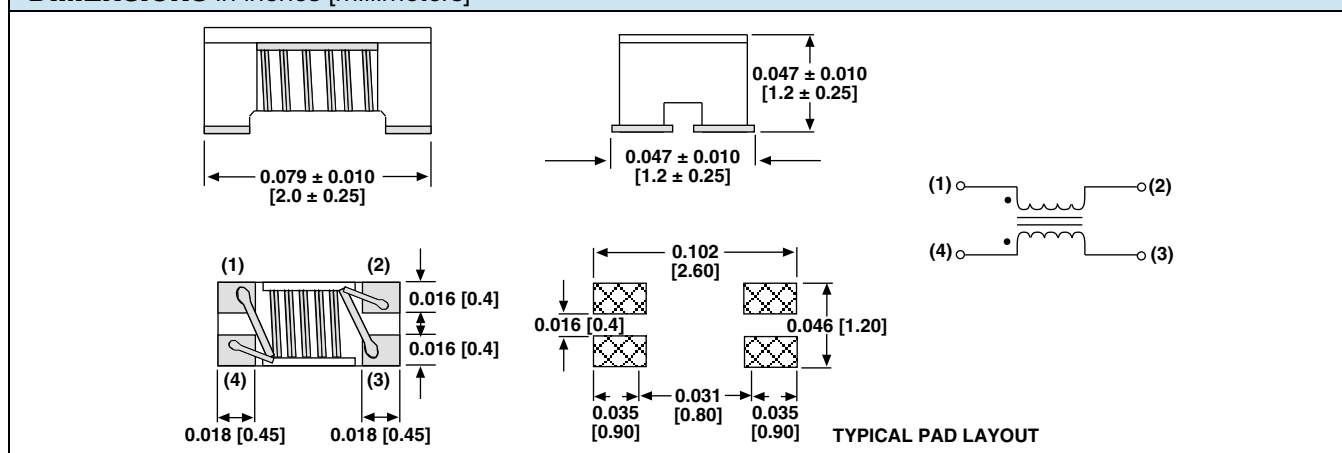
| COMMON MODE IMPEDANCE<br>AT 100 MHz, $\pm 20\%$<br>( $\Omega$ ) <sup>(1)</sup> | RATED VOLTAGE<br>(V <sub>DC</sub> ) | WITHSTANDING VOLTAGE<br>(V <sub>DC</sub> ) | RATED CURRENT MAX.<br>(mA) <sup>(2)</sup> | DC RESISTANCE MAX.<br>( $\Omega$ ) | INSULATION RESISTANCE MIN.<br>(M $\Omega$ ) |
|--------------------------------------------------------------------------------|-------------------------------------|--------------------------------------------|-------------------------------------------|------------------------------------|---------------------------------------------|
| 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

<sup>(1)</sup> Impedance is measured in HP4287A at a frequency of 100 MHz.

<sup>(2)</sup> For a 15 °C rise.

## DIMENSIONS in inches [millimeters]

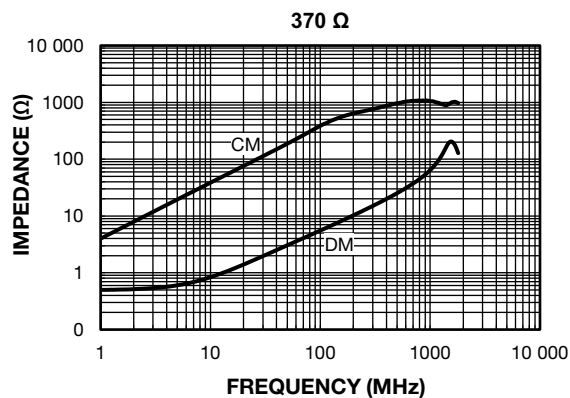
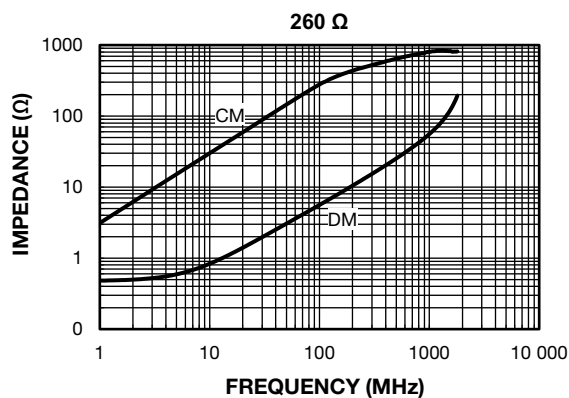
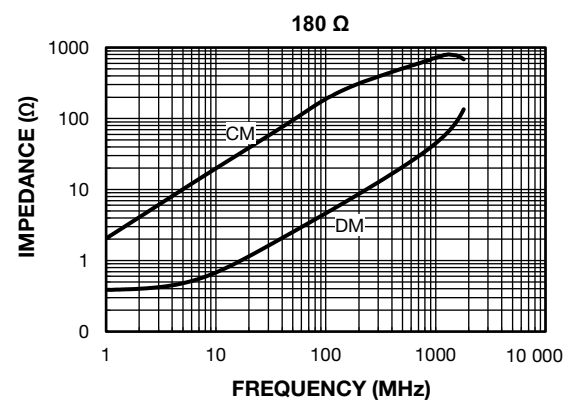
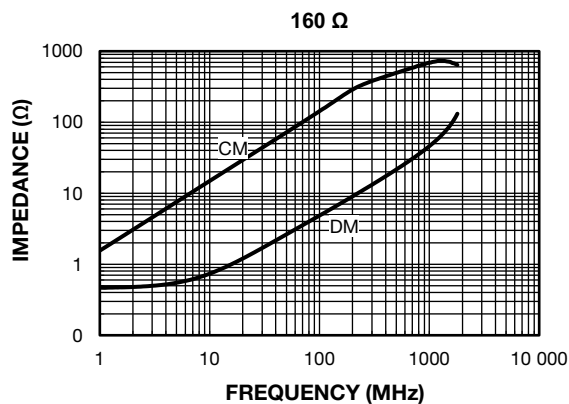
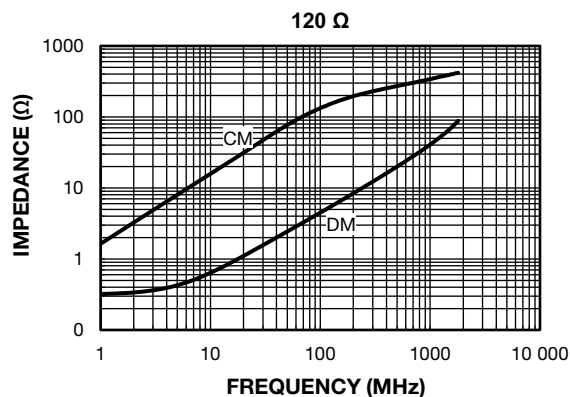
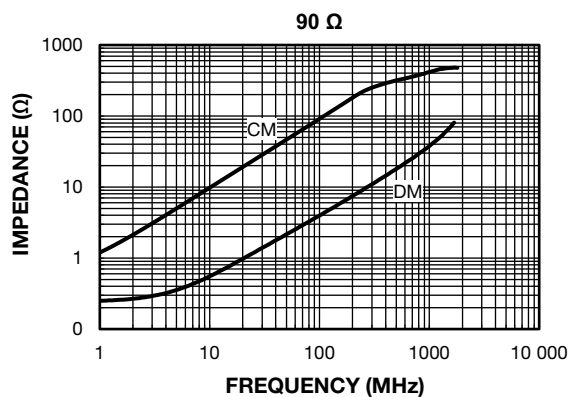
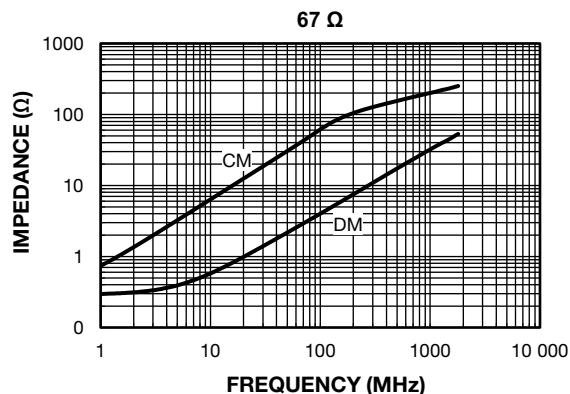
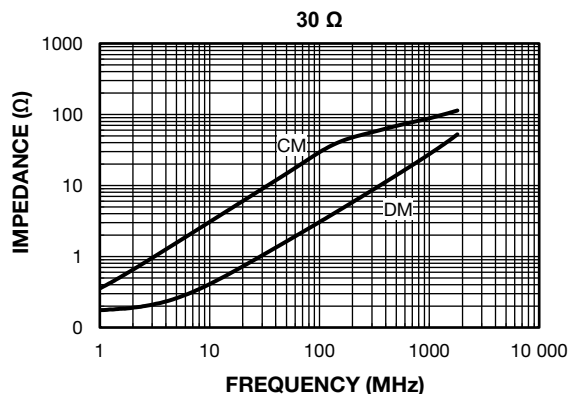


## DESCRIPTION

|          |                 |                      |              |                                |
|----------|-----------------|----------------------|--------------|--------------------------------|
| ICM-0805 | 120             | $\pm 20\%$           | 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. |

**PERFORMANCE GRAPHS: IMPEDANCE VS. FREQUENCY CHARACTERISTICS**




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