High Frequency, Surface Mount Inductors

FEATURES
- High self-resonant frequency values
- High Q values at higher frequencies
- Wirewound construction
- Compatible with vapor phase and infrared reflow soldering
- Tape and reel packaging for automatic handling, 2000/reel
- Material categorization: for definitions of compliance please see www.vishay.com/doc?99912

ELECTRICAL SPECIFICATIONS
Inductance Range: 3.3 nH to 47 000 nH
Inductance and Tolerance: 0.3 nH for 3.3 nH ± 5 % for 6.8 nH to 47 000 nH
Operating Temperature: -40 °C to +125 °C
Core Material: Ceramic from 3.3 nH to 1000 nH
Ferrite from 1200 nH to 47 000 nH

TEST EQUIPMENT
- Inductance and Q measured on HP4286A
- SRF measured on HP8753D

DIMENSIONS in inches [millimeters]

DESCRIPTION
IMC-1008 10 nH ± 5 % ER e4 (1)

GLOBAL PART NUMBER

Note
For parts within 3.3 nH to 910 nH please use e4 for JEDEC lead (Pb)-free standard. For parts within 1000 nH to 47 000 nH please use e3 for JEDEC lead (Pb)-free standard.

(1) For parts within 3.3 nH to 910 nH please use e4 for JEDEC lead (Pb)-free standard. For parts within 1000 nH to 47 000 nH please use e3 for JEDEC lead (Pb)-free standard.
**PERFORMANCE GRAPHS** IMC-1008

![Performance Graphs](image)

**TAPE AND REEL SPECIFICATIONS** in inches [millimeters]

<table>
<thead>
<tr>
<th>REEL DIMENSIONS</th>
<th>TAPE DIMENSIONS</th>
<th>RECOMMENDED PATTERN</th>
</tr>
</thead>
<tbody>
<tr>
<td><img src="image" alt="Reel Dimensions" /></td>
<td><img src="image" alt="Tape Dimensions" /></td>
<td><img src="image" alt="Recommended Pattern" /></td>
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</tbody>
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<table>
<thead>
<tr>
<th>MODEL</th>
<th>UNITS PER REEL</th>
<th>MODEL</th>
<th>A</th>
<th>B</th>
<th>T</th>
<th>MODEL</th>
<th>A</th>
<th>B</th>
<th>C</th>
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</thead>
<tbody>
<tr>
<td>IMC-1008</td>
<td>2000</td>
<td>IMC-1008</td>
<td>0.087</td>
<td>0.110</td>
<td>0.071</td>
<td>IMC-1008</td>
<td>0.047</td>
<td>0.150</td>
<td>0.100</td>
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</table>
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