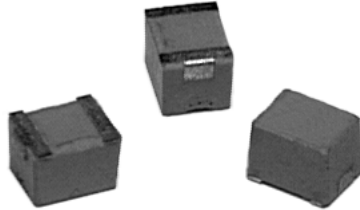


## Surface Mount, Wirewound, Molded Inductors



### FEATURES

- Molded construction provides superior strength and moisture resistance
- Tape and reel packaging for automatic handling, 2000/reel, EIA 481
- Printed marking
- Compatible with vapor phase and infrared reflow soldering
- Compliant to RoHS directive 2002/95/EC


**RoHS**  
COMPLIANT

### STANDARD ELECTRICAL SPECIFICATIONS

| IND. (μH) | Q MIN. | TEST FREQ. L & Q (MHz) | SELF-RESONANT FREQ. MIN. (MHz) | DCR MAX. (Ω) | RATED DC CURRENT (mA) |
|-----------|--------|------------------------|--------------------------------|--------------|-----------------------|
| 0.010     | 15     | 100.0                  | 2500*                          | 0.13         | 734                   |
| 0.012     | 17     | 100.0                  | 2300*                          | 0.14         | 707                   |
| 0.015     | 19     | 100.0                  | 2100*                          | 0.16         | 661                   |
| 0.018     | 21     | 100.0                  | 1900*                          | 0.18         | 624                   |
| 0.022     | 23     | 100.0                  | 1700*                          | 0.20         | 592                   |
| 0.027     | 23     | 100.0                  | 1500*                          | 0.22         | 564                   |
| 0.033     | 25     | 100.0                  | 1400*                          | 0.24         | 540                   |
| 0.039     | 25     | 100.0                  | 1300*                          | 0.27         | 530                   |
| 0.047     | 26     | 100.0                  | 1200*                          | 0.30         | 483                   |
| 0.056     | 26     | 100.0                  | 1100*                          | 0.33         | 470                   |
| 0.068     | 27     | 100.0                  | 1000                           | 0.36         | 450                   |
| 0.082     | 27     | 100.0                  | 900                            | 0.40         | 450                   |
| 0.100     | 28     | 100.0                  | 700                            | 0.44         | 450                   |

\*All SRF values above 1000 MHz are typical minimums

### PART MARKING

- Vishay Dale
- Inductance value
- Date code

### ELECTRICAL SPECIFICATIONS

**Inductance Tolerance:** ± 20 % for 0.010 μH to 0.100 μH standard. ± 10 % for 0.010 μH to 0.100 μH and ± 5 % for 0.027 μH to 0.100 μH optional

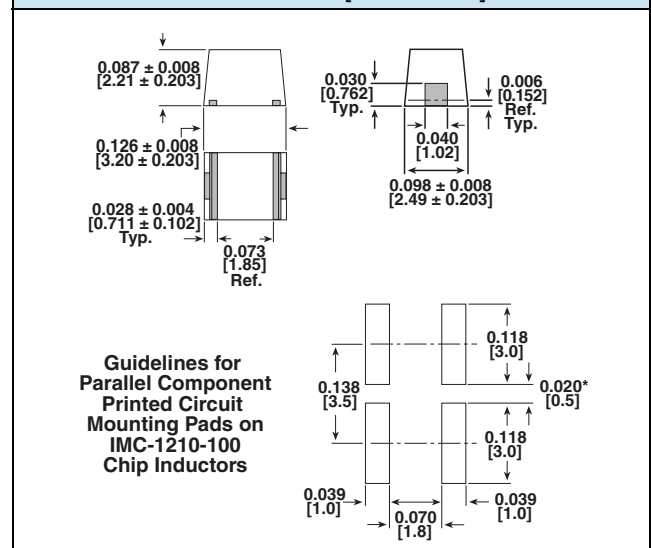
**Temperature Range:** - 55 °C to + 125 °C

**Core Material:** Non-magnetic for 0.010 μH to 0.100 μH

### TEST EQUIPMENT

- L, Q, SRF: H/P 4191A RF impedance analyzer
- DCR: Wheatstone bridge or equivalent

### DIMENSIONS in inches [millimeters]



\*Recommended minimum spacing between components

### ORDERING INFORMATION

| IMC-1210-100 | 0.010 μH         | ± 20 %               | ER           | e3                            |
|--------------|------------------|----------------------|--------------|-------------------------------|
| MODEL        | INDUCTANCE VALUE | INDUCTANCE TOLERANCE | PACKAGE CODE | JEDEC LEAD (Pb)-FREE STANDARD |

### GLOBAL PART NUMBER

|                |   |   |      |   |   |   |              |   |                  |   |   |      |        |   |   |
|----------------|---|---|------|---|---|---|--------------|---|------------------|---|---|------|--------|---|---|
| I              | M | C | 1    | 2 | 1 | 0 | E            | R | 1                | 0 | N | M    | 1      | 0 | 0 |
| PRODUCT FAMILY |   |   | SIZE |   |   |   | PACKAGE CODE |   | INDUCTANCE VALUE |   |   | TOL. | SERIES |   |   |



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