



# Surface Mount, Molded Inductor



### 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.

### STANDARD ELECTRICAL SPECIFICATIONS

| IND. (μH) | Q MIN. | TEST FREQ. L & Q (MHz) | SELF-RESONANT FREQ. MIN. (MHz) | DCR MAX. (Ohms) | RATED DC CURRENT (mA) |
|-----------|--------|------------------------|--------------------------------|-----------------|-----------------------|
| 0.010     | 15     | 100.0                  | 2500.0*                        | 0.13            | 734                   |
| 0.012     | 17     | 100.0                  | 2300.0*                        | 0.14            | 707                   |
| 0.015     | 19     | 100.0                  | 2100.0*                        | 0.16            | 661                   |
| 0.018     | 21     | 100.0                  | 1900.0*                        | 0.18            | 624                   |
| 0.022     | 23     | 100.0                  | 1700.0*                        | 0.20            | 592                   |
| 0.027     | 23     | 100.0                  | 1500.0*                        | 0.22            | 564                   |
| 0.033     | 25     | 100.0                  | 1400.0*                        | 0.24            | 540                   |
| 0.039     | 25     | 100.0                  | 1300.0*                        | 0.27            | 530                   |
| 0.047     | 26     | 100.0                  | 1200.0*                        | 0.30            | 483                   |
| 0.056     | 26     | 100.0                  | 1100.0*                        | 0.33            | 470                   |
| 0.068     | 27     | 100.0                  | 1000.0*                        | 0.36            | 450                   |
| 0.082     | 27     | 100.0                  | 900.0*                         | 0.40            | 450                   |
| 0.100     | 28     | 100.0                  | 700.0*                         | 0.44            | 450                   |

\*All SRF values above 1000 MHz are typical minimums.

### ELECTRICAL SPECIFICATIONS

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

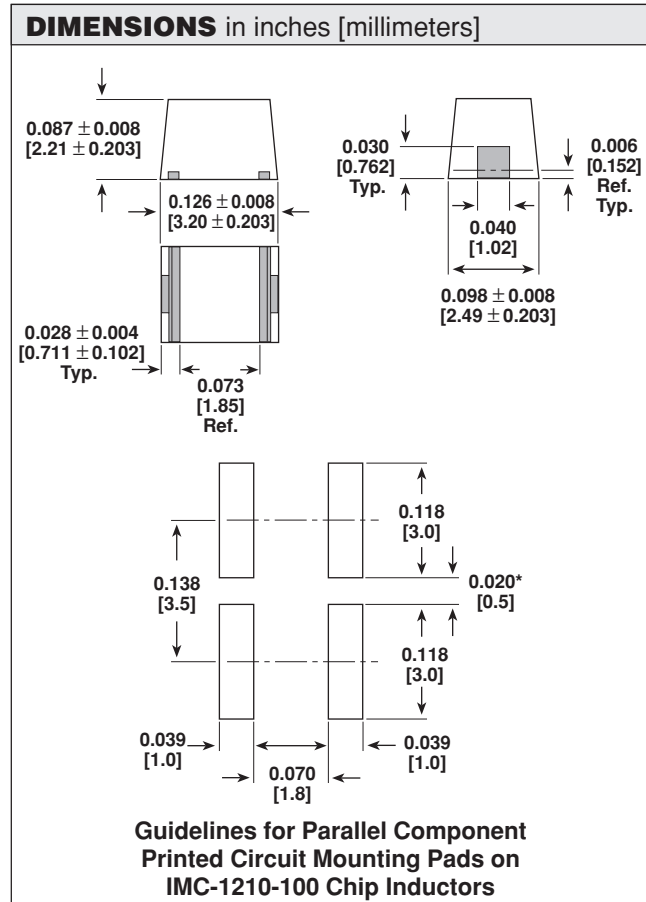
**Temperature Range:** - 55°C to + 125°C.

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

### TEST EQUIPMENT

- L, Q, SRF: H/P 4191A RF Impedance Analyzer.
- DCR: Wheatstone bridge or equivalent.

| PART MARKING |                  |
|--------------|------------------|
| —            | Vishay Dale      |
| —            | Inductance value |
| —            | Date code        |



\*Recommended minimum spacing between components.

### DESCRIPTION

|                       |                             |                               |
|-----------------------|-----------------------------|-------------------------------|
| IMC-1210-100<br>MODEL | 0.010μH<br>INDUCTANCE VALUE | ± 20%<br>INDUCTANCE TOLERANCE |
|-----------------------|-----------------------------|-------------------------------|

### SAP PART NUMBERING GUIDELINES (INTERNAL)

