

High Current, Surface Mount Inductors - Non-Shielded



FEATURES

- High energy storage
- Low resistance
- Tape and reel packaging for automatic handling
- Material categorization:
for definitions of compliance please see www.vishay.com/doc?99912



RoHS
COMPLIANT
HALOGEN
FREE

ELECTRICAL SPECIFICATIONS

Inductance Range: 10 μ H to 330 μ H

Inductance Tolerance: 20 %

Operating Temperature: -40 °C to +125 °C (temperature rise included)

Storage Temperature: -40 °C to +125 °C

Resistance to Solder Heat: 260 °C for 10 s

MATERIALS

Core: ferrite

Wire: enamelled copper wire

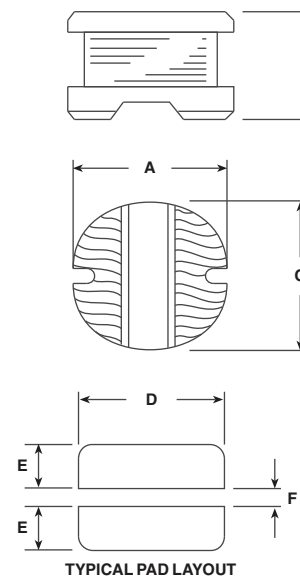
Terminals: Ni and Sn / Ag / Cu

| STANDARD ELECTRICAL SPECIFICATIONS | | | |
|------------------------------------|------------------|-----------------------|-------------------------------------|
| INDUCTANCE (μ H) | TEST FREQUENCY L | DCR MAX. (Ω) | RATED DC CURRENT (A) ⁽¹⁾ |
| 10.0 | 2.52 MHz | 0.08 | 1.44 |
| 12.0 | 2.52 MHz | 0.09 | 1.39 |
| 15.0 | 2.52 MHz | 0.10 | 1.24 |
| 18.0 | 2.52 MHz | 0.11 | 1.12 |
| 22.0 | 2.52 MHz | 0.13 | 1.07 |
| 27.0 | 2.52 MHz | 0.15 | 0.94 |
| 33.0 | 2.52 MHz | 0.17 | 0.85 |
| 39.0 | 2.52 MHz | 0.22 | 0.74 |
| 47.0 | 2.52 MHz | 0.25 | 0.68 |
| 56.0 | 2.52 MHz | 0.28 | 0.64 |
| 68.0 | 2.52 MHz | 0.33 | 0.59 |
| 82.0 | 2.52 MHz | 0.41 | 0.54 |
| 100.0 | 1 kHz | 0.48 | 0.51 |
| 120.0 | 1 kHz | 0.54 | 0.49 |
| 150.0 | 1 kHz | 0.75 | 0.40 |
| 180.0 | 1 kHz | 1.02 | 0.36 |
| 220.0 | 1 kHz | 1.20 | 0.31 |
| 270.0 | 1 kHz | 1.31 | 0.29 |
| 330.0 | 1 kHz | 1.50 | 0.28 |

Note

⁽¹⁾ Rated Current: Value obtained when current flows and the temperature has risen 40 °C or when DC current flows and the initial value of inductance has fallen by 10 %, whichever is smaller

DIMENSIONS in inches [millimeters]



| A | B | C |
|-------------------------------------|-------------------------------------|-------------------------------------|
| 0.307 \pm 0.01 [7.8 \pm 0.3] | 0.138 \pm 0.02 [3.5 \pm 0.5] | 0.276 \pm 0.01 [7.0 \pm 0.3] |
| D | E | F |
| 0.296 [7.5] | 0.118 [3.0] | 0.079 [2.0] |

DESCRIPTION

| IDCP-3114 | 10 μ H | \pm 20 % | ER | e1 |
|-----------|------------------|----------------------|--------------|--------------------------------|
| MODEL | INDUCTANCE VALUE | INDUCTANCE TOLERANCE | PACKAGE CODE | JEDEC® LEAD (Pb)-FREE STANDARD |

GLOBAL PART NUMBER

| | | | | | | | | | | | | | |
|----------------|---|---|---|------|---|---|---|--------------|---|------------------|---|---|----------------------|
| I | D | C | P | 3 | 1 | 1 | 4 | E | R | 1 | 0 | 0 | M |
| PRODUCT FAMILY | | | | SIZE | | | | PACKAGE CODE | | INDUCTANCE VALUE | | | INDUCTANCE TOLERANCE |



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