Vishay Dale



COMPLIANT

# **Thin Film Chip Inductors**





| STANDARD ELECTRICAL SPECIFICATIONS |           |            |            |             |               |                 |                 |
|------------------------------------|-----------|------------|------------|-------------|---------------|-----------------|-----------------|
| L<br>500                           |           | Q TYPICAL  |            |             | SRF           | DCR             | RATED<br>DC     |
| MHz<br>(nH)                        | L<br>TOL. | 100<br>MHz | 800<br>MHz | 1700<br>MHz | TYP.<br>(MHz) | <b>MAX.</b> (Ω) | CURRENT<br>(mA) |
| 1.0                                | 0.3 nH    | 7          | 21         | 33          | 12 000        | 0.15            | 700             |
| 1.2                                | 0.3 nH    | 7          | 21         | 33          | 12 000        | 0.15            | 700             |
| 1.5                                | 0.3 nH    | 7          | 21         | 33          | 10 000        | 0.25            | 700             |
| 1.8                                | 0.3 nH    | 7          | 21         | 33          | 10 000        | 0.25            | 560             |
| 2.2                                | 0.3 nH    | 7          | 21         | 33          | 8000          | 0.35            | 440             |
| 2.7                                | 0.3 nH    | 7          | 21         | 33          | 8000          | 0.35            | 440             |
| 3.3                                | 0.3 nH    | 7          | 21         | 28          | 6000          | 0.45            | 380             |
| 3.9                                | 0.3 nH    | 7          | 21         | 28          | 6000          | 0.55            | 340             |
| 4.7                                | 0.3 nH    | 7          | 21         | 28          | 6000          | 0.65            | 320             |
| 5.6                                | 0.3 nH    | 7          | 21         | 28          | 6000          | 0.85            | 280             |
| 6.8                                | 0.3 nH    | 7          | 21         | 28          | 6000          | 1.05            | 260             |
| 8.2                                | 0.3 nH    | 7          | 21         | 28          | 5500          | 1.25            | 220             |
| 10                                 | 2 %, 5 %  | 7          | 21         | 26          | 4500          | 1.35            | 200             |
| 12                                 | 2 %, 5 %  | 5          | 21         | 26          | 3700          | 1.55            | 180             |
| 15                                 | 2 %, 5 %  | 5          | 21         | 26          | 3300          | 1.75            | 130             |
| 18                                 | 2 %, 5 %  | 5          | 21         | 21          | 3100          | 2.15            | 100             |
| 22                                 | 2 %, 5 %  | 5          | 21         | 19          | 2800          | 2.65            | 90              |

#### Note

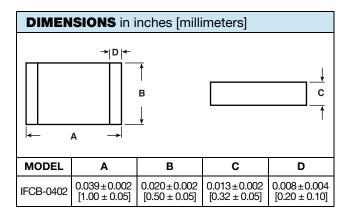
Test equipment: HP-4287 and Agilent 16196B

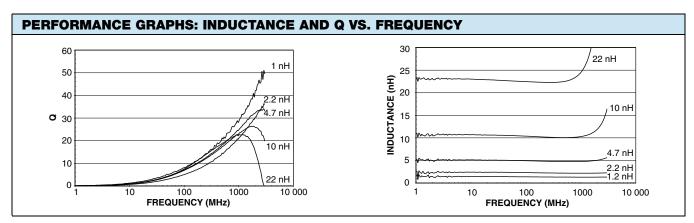
#### **FEATURES**

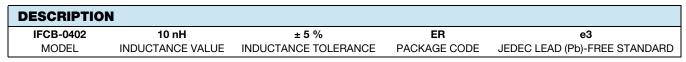
- Tight tolerance
- Self-resonant frequency controlled within 10 %
- Stable inductance over high frequencies
- · Compatible with reflow or flow soldering
- Temperature range: 40 °C to + 125 °C (no load) - 40 °C to + 85 °C (full rated current)
- Compliant to RoHS directive 2002/95/EC

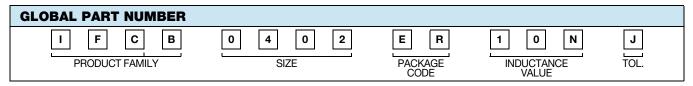
#### **APPLICATIONS**

- Cellular telephone, pagers and GPS products
- Wireless LAN and other communication appliances
- VCO, TCXO circuit and RF transceiver module









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