

36501E5N1JTDG

✓ ACTIVE

Sigma | Sigma 3650

TE Internal #: 3-1624112-5

High Frequency Inductor, 0402, .0051  $\mu$ H, 800 mA, .083 ohm DC Resistance, 5 %, Surface Mount, Taped & Reeled, 1.27 mm [.05 in] Length, Sigma 3650

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Passive Components > Inductors > High Frequency & RF Inductors



Inductor Type: **High Frequency**  
Package Size Code: **0402**  
Inductance: **.0051  $\mu$ H**  
Current Rating (Max): **800 mA**  
DC Resistance: **.083  $\Omega$**

Features

Product Type Features

|                   |                |
|-------------------|----------------|
| Inductor Type     | High Frequency |
| Package Size Code | 0402           |
| Element Type      | Wire Wound     |

Electrical Characteristics

|                             |               |
|-----------------------------|---------------|
| Self Resonant Frequency     | 4.8 GHz       |
| Inductance                  | .0051 $\mu$ H |
| Current Rating (Max)        | 800 mA        |
| DC Resistance               | .083 $\Omega$ |
| Passive Component Tolerance | 5 %           |

Termination Features

|                           |               |
|---------------------------|---------------|
| Termination Method to PCB | Surface Mount |
|---------------------------|---------------|

Dimensions

|                |                 |
|----------------|-----------------|
| Product Length | 1.27 mm[.05 in] |
| Product Width  | .76 mm[.029 in] |
| Product Height | .61 mm[.024 in] |

Usage Conditions

|                             |                        |
|-----------------------------|------------------------|
| Operating Temperature Range | -40 – 125 $^{\circ}$ C |
|-----------------------------|------------------------|

Packaging Features



|                  |                |
|------------------|----------------|
| Packaging Method | Taped & Reeled |
|------------------|----------------|

Other

|                         |    |
|-------------------------|----|
| Inductor Quality Factor | 20 |
|-------------------------|----|

Product Compliance

For compliance documentation, visit the product page on TE.com>

|                                               |                                                                                                                                |
|-----------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------|
| EU RoHS Directive 2011/65/EU                  | Compliant                                                                                                                      |
| EU ELV Directive 2000/53/EC                   | Compliant                                                                                                                      |
| China RoHS 2 Directive MIIT Order No 32, 2016 | No Restricted Materials Above Threshold                                                                                        |
| EU REACH Regulation (EC) No. 1907/2006        | Current ECHA Candidate List: JAN 2025 (247)<br>Candidate List Declared Against: JUNE 2023 (235)<br>Does not contain REACH SVHC |
| Halogen Content                               | Low Halogen - Br, Cl, F, I < 900 ppm per homogenous material. Also BFR/CFR/PVC Free                                            |
| Solder Process Capability                     | Reflow solder capable to 260°C                                                                                                 |

Product Compliance Disclaimer

This information is provided based on reasonable inquiry of our suppliers and represents our current actual knowledge based on the information they provided. This information is subject to change. The part numbers that TE has identified as EU RoHS compliant have a maximum concentration of 0.1% by weight in homogenous materials for lead, hexavalent chromium, mercury, PBB, PBDE, DBP, BBP, DEHP, DIBP, and 0.01% for cadmium, or qualify for an exemption to these limits as defined in the Annexes of Directive 2011/65/EU (RoHS2). Finished electrical and electronic equipment products will be CE marked as required by Directive 2011/65/EU. Components may not be CE marked. Additionally, the part numbers that TE has identified as EU ELV compliant have a maximum concentration of 0.1% by weight in homogenous materials for lead, hexavalent chromium, and mercury, and 0.01% for cadmium, or qualify for an exemption to these limits as defined in the Annexes of Directive 2000/53/EC (ELV). Regarding the REACH Regulation, the information TE provides on SVHC in articles for this part number is based on the latest European Chemicals Agency (ECHA) 'Guidance on requirements for substances in articles' posted at this URL: <https://echa.europa.eu/guidance-documents/guidance-on-reach>

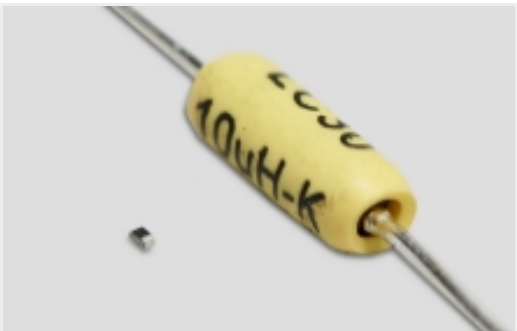
Compatible Parts

|                                                                                                                                         |                                                                                                                                       |                                                                                                                                             |                                                                                                                                           |
|-----------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------|
| <br>TE Part # 4-1624112-4<br>3650 0402 16nH 5% 2K RL | <br>TE Part # 1624112-8<br>3650 0603 68nH 5% 2K RL | <br>TE Part # 6-1624113-2<br>3650 0805 0.56uH 5% 2K RL | <br>TE Part # 4-1879023-8<br>3650 1008 10uH 5% 2K RL |
|-----------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------|



TE Part # 5-1624113-2  
[3650 0805 0.22uH 5% 2K RL](#)

Also in the Series | [Sigma 3650](#)



[High Frequency & RF Inductors\(226\)](#)

Customers Also Bought



TE Part #3-1624112-3  
[3650 0402 4.3nH 5% 2K RL](#)



TE Part #1-1624112-7  
[3650 0402 2.7nH 5% 2K RL](#)

Documents

Product Drawings

[3650 0402 5.1nH 5% 2K RL](#)

English

CAD Files

[3D PDF](#)

3D

Customer View Model

[ENG\\_CVM\\_CVM\\_3-1624112-5\\_BA.2d\\_dxf.zip](#)

English

Customer View Model

[ENG\\_CVM\\_CVM\\_3-1624112-5\\_BA.3d\\_igs.zip](#)

English

Customer View Model

[ENG\\_CVM\\_CVM\\_3-1624112-5\\_BA.3d\\_stp.zip](#)

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English

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Datasheets & Catalog Pages  
1309350\_PASSIVE\_COMPONENT

English

Low Inductance, High Frequency Chip Inductors - Type 3650 Series

English