



Passive Components > Inductors > High Frequency & RF Inductors



Inductor Type: **High Frequency**  
Termination Method to Printed Circuit Board: **Surface Mount**  
Packaging Method: **Taped & Reeled**  
Passive Component Dimensions: **2.92 x 2.79 x 2.1 mm**  
Passive Component Tolerance: **5 %**

Features

Product Type Features

|                   |                |
|-------------------|----------------|
| Inductor Type     | High Frequency |
| Element Type      | Wire Wound     |
| Package Size Code | 1008           |

Electrical Characteristics

|                             |             |
|-----------------------------|-------------|
| Self Resonant Frequency     | .025 GHz    |
| Passive Component Tolerance | 5 %         |
| Inductance                  | 8.2 $\mu$ H |
| Current Rating (Max)        | 170 mA      |
| DC Resistance               | 6 $\Omega$  |

Termination Features

|                                             |               |
|---------------------------------------------|---------------|
| Termination Method to Printed Circuit Board | Surface Mount |
|---------------------------------------------|---------------|

Dimensions

|                              |                      |
|------------------------------|----------------------|
| Passive Component Dimensions | 2.92 x 2.79 x 2.1 mm |
|------------------------------|----------------------|

Usage Conditions

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

Packaging Features

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



Other

|                         |    |
|-------------------------|----|
| Inductor Quality Factor | 15 |
|-------------------------|----|

Product Compliance

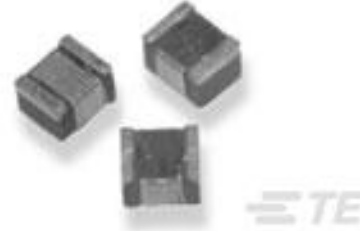
For compliance documentation, visit the product page on TE.com>

|                                               |                                                                                                                                         |
|-----------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------|
| 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 2021 (211)<br>Candidate List Declared Against: JUN 2020 (209)<br>SVHC > Threshold:<br>Not Yet Reviewed |
| 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

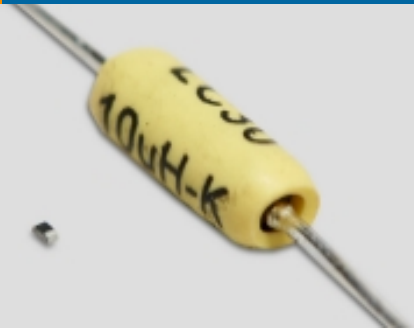
|                                                                                                                                           |                                                                                                                                             |                                                                                                                                               |                                                                                                                                               |
|-------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------|
| <br><br>TE Part # 1624112-8<br>3650 0603 68nH 5% 2K RL | <br><br>TE Part # 6-1624113-2<br>3650 2A 0.56uH 5% 2K RL | <br><br>TE Part # 4-1624112-4<br>3650 0402 16nH 5% 2K RL | <br><br>TE Part # 5-1624113-2<br>3650 2A 0.22uH 5% 2K RL |
|-------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------|





TE Part # 4-1879023-8  
3650 1008 10uH 5% 2K RL

Also in the Series | Sigma 3650



High Frequency & RF Inductors(270)

Customers Also Bought



TE Part #1-1623746-4  
ER74 1R2 5% AMMO PK



TE Part #1622313-1  
LR1 1% 130K



TE Part #1-1624097-3  
3615A-10-3505-10 0.22UH



TE Part #1-1625960-2  
HBA RE 82M 1% 100PPM



TE Part #GA50K6A1A  
DISCRETE NTC SERIES I



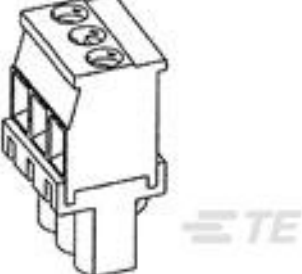
TE Part #1337772-2  
50/OHM COAX BNC STR PLUG ELB P



TE Part #1-770178-1  
06P MINI UMNL ASSY VO SNAU LF



TE Part #1-1825137-7  
A103SYWB04



TE Part #1-1986370-5  
Str Plug, 3.5mm, Green, RH, 14 posn

TE Part #1393583-6  
C42334A 228A445=RP GEHAEUSE



Documents

Product Drawings

3650 1008 8.2uH 5% 2K RL

English

CAD Files

3D PDF

3D

Customer View Model

ENG\_CVM\_CVM\_4-1879023-7\_BA.2d\_dxf.zip

English

Customer View Model

ENG\_CVM\_CVM\_4-1879023-7\_BA.3d\_igs.zip

English

Customer View Model

ENG\_CVM\_CVM\_4-1879023-7\_BA.3d\_stp.zip

English

By downloading the CAD file I accept and agree to the [Terms and Conditions](#) of use.

Datasheets & Catalog Pages

1309350\_PASSIVE\_COMPONENT

English

Low Inductance, High Frequency Chip Inductors - Type 3650 Series

English