



Passive Components > Inductors > High Frequency & RF Inductors



Inductor Type: **High Frequency**
Package Size Code: **0603**
Inductance: **.068 μ H**
Current Rating (Max): **600 mA**
DC Resistance: **.34 Ω**

Features

Product Type Features

Inductor Type	High Frequency
Package Size Code	0603
Element Type	Wire Wound

Electrical Characteristics

Self Resonant Frequency	1.7 GHz
Inductance	.068 μ H
Current Rating (Max)	600 mA
DC Resistance	.34 Ω
Passive Component Tolerance	5 %

Termination Features

Termination Method to PCB	Surface Mount
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Dimensions

Product Length	1.8 mm[.07 in]
Product Width	1.12 mm[.044 in]
Product Height	1.02 mm[.04 in]

Usage Conditions

Operating Temperature Range	-40 – 125 $^{\circ}$ C[-40 – 257 $^{\circ}$ F]
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Packaging Features



Packaging Method	Taped & Reeled
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Other

Inductor Quality Factor	37
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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	Out of Scope
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: JUNE 2025 (250) Candidate List Declared Against: JUNE 2025 (250) Does not contain REACH SVHC
Halogen Content	Low Halogen - Br, Cl, F < 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

 TE Part # 1624113-5 3650 0805 3.3nH 10% 2K RL	 TE Part # 1624113-3 3650 0805 33nH 10% 2K RL	 TE Part # 1-1624112-6 3650 0402 2.4nH 5% 2K RL	 TE Part # 3-1879023-3 3650 1008 0.75uH 5% 2K RL
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TE Part # 3-1879023-7
3650 1008 1.2uH 5% 2K RL

TE Part # 1-1624112-5
3650 0402 2.2nH 5% 2K RL

TE Part # 1-1624112-3
3650 0402 1.9nH 5% 2K RL

TE Part # 2-1624113-2
3650 0805 3.0nH 5% 2K RL

TE Part # 6-1624113-7
3650 0805 1.0uH 5% 2K RL

TE Part # 6-1624113-4
3650 0805 0.68uH 5% 2K RL

TE Part # 7-1624113-0
3650 0805 1.8uH 5% 2K RL

TE Part # 1624112-5
3650 0603 33nH 5% 2K RL

TE Part # 2-1879023-2
3650 1008 0.24uH 5% 2K RL

TE Part # 2-1624113-6
3650 0805 7.5nH 5% 2K RL

TE Part # 1879023-6
3650 1008 22nH 5% 2K RL

TE Part # 1879591-1
3650 0402 4.7nH 2% 2K RL

TE Part # 2-1624113-8
3650 0805 8.7nH 5% 2K RL

TE Part # 9-1624112-1
3650 0603 0.26uH 5% 2K RL

TE Part # 9-1624112-9
3650 0603 82nH 2% 2K RL

TE Part # 4-1624112-9
3650 0402 23nH 5% 2K RL

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

High Frequency & RF Inductors(225)

Customers Also Bought



TE Part #203349-E
MJIM IMR 1X1 S 810 GF5 X R THRU *
L2A M5

TE Part #2-520407-2
ULTRA-FAST 250 ASY REC 22-18 TPBR

TE Part #825433-2
MOD 2 PINHDR 1X2 P.

TE Part #825433-4
MOD 2 PINHDR 1X4 P.

TE Part #1241150-3
3P MOD II BREAK AWAY HDR,SMD,
BLISTER

TE Part #6-1624112-6
3650 0603 4.7nH 5% 2K RL

TE Part #5-1814400-2
SMA R/A PCB Skt GZD

TE Part #2-1879208-8
CPF 0402 130R 0.1% 25PPM 1K RL

TE Part #8-1879223-3
CPF 0603 1K96 0.1% 25PPM 1K RL

TE Part #2331373-1
DET SW3.50X2.8X1.5 JB VERT. NO AG
RL

Documents

Product Drawings

3650 0603 68nH 5% 2K RL

English

CAD Files

3D PDF

3D

Customer View Model

ENG_CVM_CVM_1624112-8_BA.2d_dxf.zip

English

Customer View Model

ENG_CVM_CVM_1624112-8_BA.3d_igs.zip

English

Customer View Model

ENG_CVM_CVM_1624112-8_BA.3d_stp.zip

English

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

Datasheets & Catalog Pages

36501J68NJTDG

.068 µH, High Frequency Inductor, 600 mA, .34 ohm DC Resistance, 0603, 5 %, Surface Mount, Taped & Reeled, 1.8 mm [.07 in] Length, Sigma 3650



1309350_PASSIVE_COMPONENT

English

Low Inductance, High Frequency Chip Inductors - Type 3650 Series

English