

Inductors (Coils)
Fixed
RF-frequency

MULTILAYER CHIP INDUCTORS

MLG series

MLG1608 TYPE

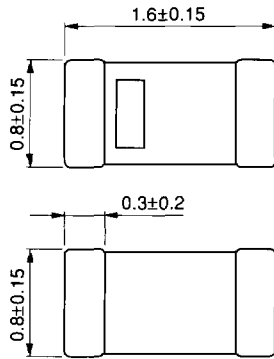
FEATURES

- High self-resonant frequency.
- Multilayer monolithic construction yields high reliability.

APPLICATIONS

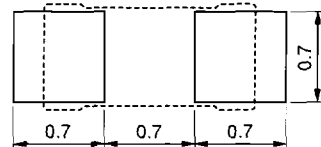
For high frequency applications including mobile phones, portable phones, cordless phones, pagers and personal handy-phone systems (PHS).

SHAPES AND DIMENSIONS



Weight: 4mg

RECOMMENDED PC BOARD PATTERNS



Dimensions in mm

PRODUCT IDENTIFICATIONS

MLG	1608	A	2N2	S	○
(1)	(2)	(3)	(4)	(5)	(6)

(1) Series name

(2) Dimensions L×W

1608	1.6×0.8mm
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(3) Material code

(4) Inductance value

2N2	2.2nH
12N	12nH
39N	39nH

(5) Inductance tolerance

S	±0.3nH
D	±0.5nH
J	±5%

(6) Packaging style

T	Taping [reel]
B	Bulk

ELECTRICAL CHARACTERISTICS

Inductance (nH)	Inductance tolerance	Q min.	Test frequency L, Q (MHz)	Self-resonant frequency (GHz)min.	DC resistance (Ω)max.	Rated current (mA)max.	Part No.
1	±0.3nH	8	100	10	0.1	300	MLG1608A1N0S
1.2	±0.3nH	8	100	10	0.1	300	MLG1608A1N2S
1.5	±0.3nH	8	100	10	0.1	300	MLG1608A1N5S
1.8	±0.3nH	8	100	9.8	0.1	300	MLG1608A1N8S
2.2	±0.3nH	10	100	7.6	0.15	300	MLG1608A2N2S
2.7	±0.3nH	10	100	7	0.15	300	MLG1608A2N7S
3.3	±0.3nH	10	100	6.2	0.2	300	MLG1608A3N3S
3.9	±0.3nH	10	100	5.6	0.2	300	MLG1608A3N9S
4.7	±0.3nH	10	100	4.8	0.2	300	MLG1608A4N7S
5.6	±0.5nH	10	100	4.6	0.2	300	MLG1608A5N6D
6.8	±0.5nH	10	100	4.2	0.2	300	MLG1608A6N8D
8.2	±0.5nH	10	100	3.6	0.25	300	MLG1608A8N2D

• Test equipment

Inductance Q: HP4291A+16193A SRF: HP8720C Rdc: YOKOGAWA TYPE7561

• Rated current

Value obtained when current flows and temperature has risen to 20°C.



Specifications which provide more details for the proper and safe use of the described product are available upon request.

All specifications are subject to change without notice.

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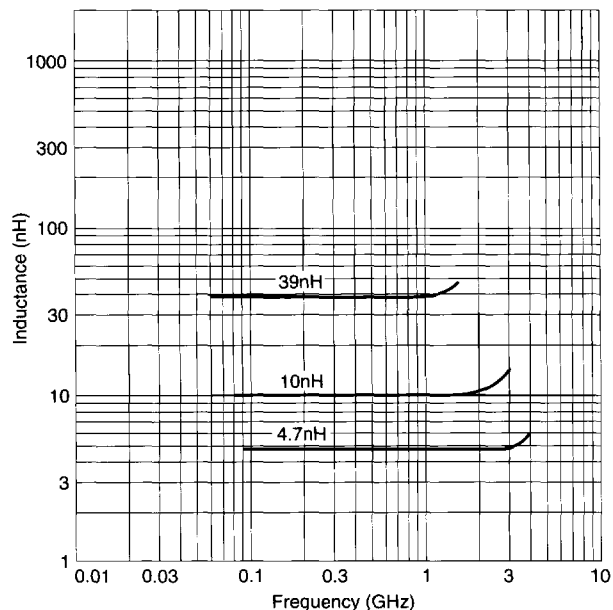
ELECTRICAL CHARACTERISTICS

Inductance (nH)	Inductance tolerance	Q min.	Test frequency L, Q (MHz)	Self-resonant frequency (GHz)min.	DC resistance (Ω)max.	Rated current (mA)max.	Part No.
10	±5%	12	100	3.2	0.25	300	MLG1608A10NJ
12	±5%	12	100	2.8	0.3	300	MLG1608A12NJ
15	±5%	12	100	2.6	0.35	300	MLG1608A15NJ
18	±5%	12	100	2.4	0.4	300	MLG1608A18NJ
22	±5%	12	100	2	0.5	300	MLG1608A22NJ
27	±5%	12	100	1.9	0.55	300	MLG1608A27NJ
33	±5%	12	100	1.6	0.6	300	MLG1608A33NJ
39	±5%	12	100	1.4	0.65	300	MLG1608A39NJ
47	±5%	14	100	1.2	0.7	300	MLG1608B47NJ
56	±5%	14	100	1	0.75	300	MLG1608B56NJ
68	±5%	14	100	0.9	0.8	300	MLG1608B68NJ
82	±5%	14	100	0.8	0.9	300	MLG1608B82NJ
100	±5%	14	100	0.7	1	300	MLG1608BR10J

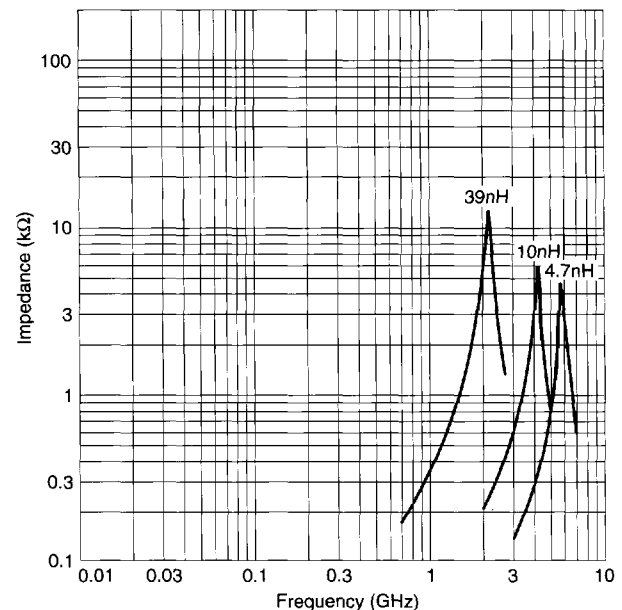
- Test equipment
Inductance Q: HP4291A+16193A SRF: HP8720C Rdc: YOKOGAWA TYPE7561
- Rated current
Value obtained when current flows and temperature has risen to 20°C.

TYPICAL ELECTRICAL CHARACTERISTICS

INDUCTANCE vs. FREQUENCY CHARACTERISTICS



IMPEDANCE vs. FREQUENCY CHARACTERISTICS



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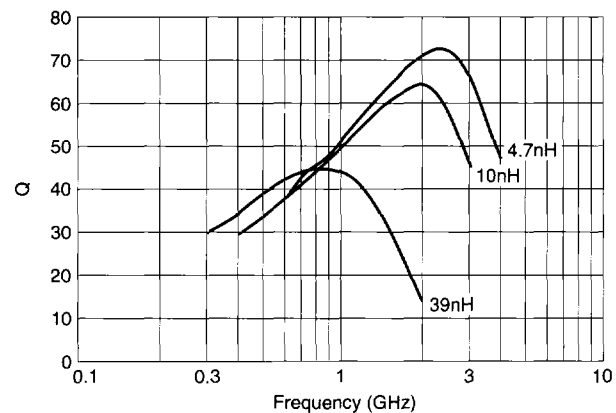
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TYPICAL ELECTRICAL CHARACTERISTICS

Q vs. FREQUENCY CHARACTERISTICS



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