

SMD Inductors(Coils)

For Power Line(Wound, Magnetic Shielded)

Conformity to RoHS Directive

GLCR Series GLCR2012

FEATURES

- It delivers low Rdc with high Idc.
- It is lead-free compatible.

The product contains no lead whatsoever.
It is able to withstand high temperature reflows (260°C during the peak) used in lead-free soldering.

- It's construction supports bulk mounting.

APPLICATIONS

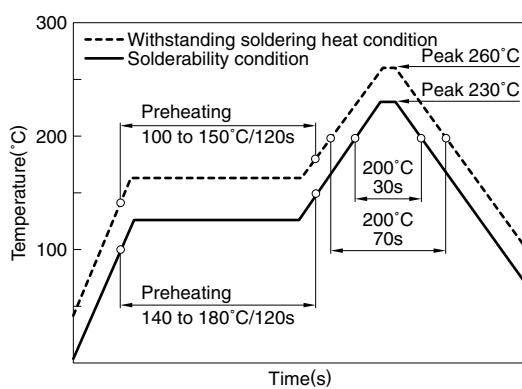
Portable audio visual devices (DSCs, DVCs, etc.)
Mobile communication devices (cellular phones, etc.)
Information devices (PCs, etc.)

SPECIFICATIONS

Operating temperature range	-40 to +105°C [Including self-temperature rise]
Storage temperature range	-40 to +105°C

RECOMMENDED SOLDERING CONDITIONS

REFLOW SOLDERING



PRODUCT IDENTIFICATION

GLCR	2012	T	100	M	- HC
(1)	(2)	(3)	(4)	(5)	(6)

(1) Series name

(2) Dimensions

2012	2.0×1.25mm
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(3) Packaging style

T	Taping
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(4) Inductance

1R0	1μH
100	10μH
101	100μH

(5) Inductance tolerance

M	±20%
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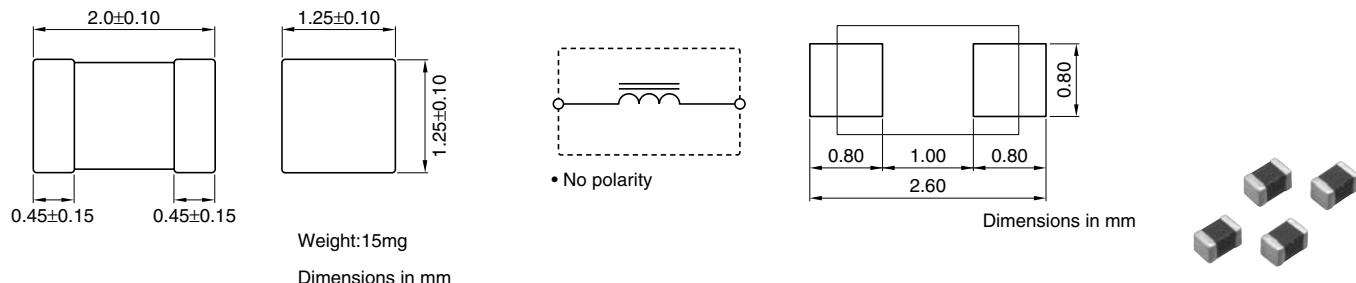
(6) TDK internal code

PACKAGING STYLE AND QUANTITIES

Packaging style	Quantity
Taping	2000 pieces/reel

- Conformity to RoHS Directive: This means that, in conformity with EU Directive 2002/95/EC, lead, cadmium, mercury, hexavalent chromium, and specific bromine-based flame retardants, PBB and PBDE, have not been used, except for exempted applications.
- Please contact our Sales office when your application are considered the following:
The device's failure or malfunction may directly endanger human life (e.g. application for automobile/aircraft/medical/nuclear power devices, etc.)
- All specifications are subject to change without notice.

SHAPES AND DIMENSIONS/CIRCUIT DIAGRAM/RECOMMENDED PC BOARD PATTERN



ELECTRICAL CHARACTERISTICS

Inductance (μ H)	Inductance tolerance (%)	DC resistance (Ω) \pm 30%	Rated current ^{*1} (mA)max.	Rated current ^{*2} (mA)max.	Rated current ^{*3} (mA)max.	Part No.
1	\pm 20	0.09	490	850	900	GLCR2012T1R0M-HC
1.5	\pm 20	0.18	380	700	700	GLCR2012T1R5M-HC
2.2	\pm 20	0.2	375	550	600	GLCR2012T2R2M-HC
3.3	\pm 20	0.27	285	470	550	GLCR2012T3R3M-HC
4.7	\pm 20	0.29	225	420	500	GLCR2012T4R7M-HC
6.8	\pm 20	0.4	200	350	440	GLCR2012T6R8M-HC
10	\pm 20	0.5	155	270	380	GLCR2012T100M-HC
15	\pm 20	0.75	130	230	320	GLCR2012T150M-HC
22	\pm 20	1	105	180	250	GLCR2012T220M-HC
33	\pm 20	1.7	85	140	200	GLCR2012T330M-HC
47	\pm 20	2.4	70	120	170	GLCR2012T470M-HC
68	\pm 20	3	55	100	150	GLCR2012T680M-HC
100	\pm 20	4.5	40	85	130	GLCR2012T101M-HC

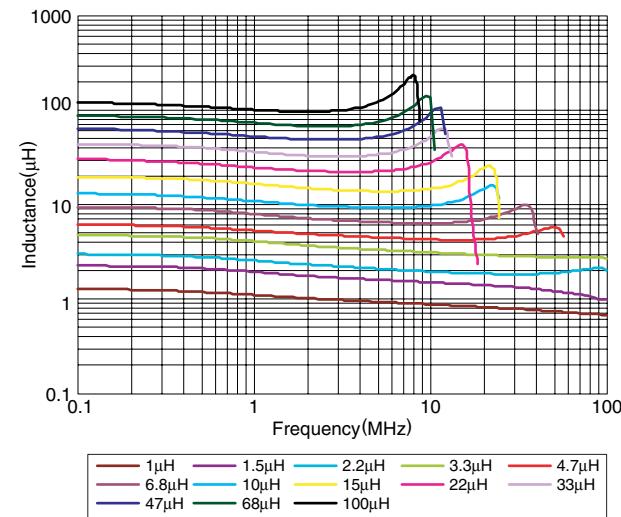
*1 Rated current based on inductance variation: Current when inductance decreases by 10% of the initial value due to direct current superimposed characteristics

*2 Rated current based on inductance variation: Current when inductance decreases by 30% of the initial value due to direct current superimposed characteristics

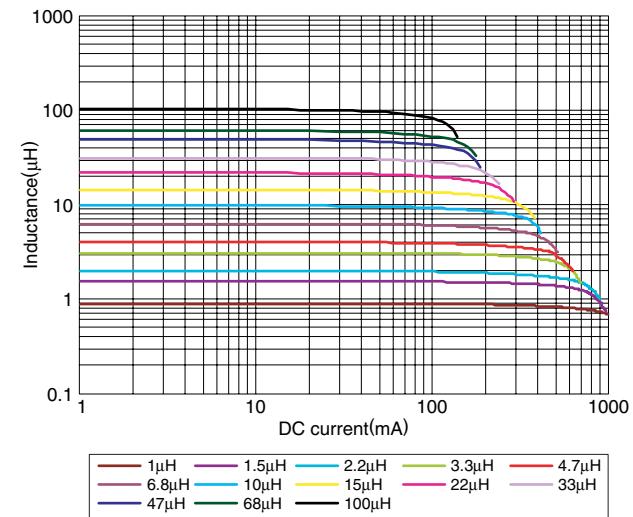
*3 Rated current based on increasing product temperature: Current when temperature of the product reaches +20°C

TYPICAL ELECTRICAL CHARACTERISTICS

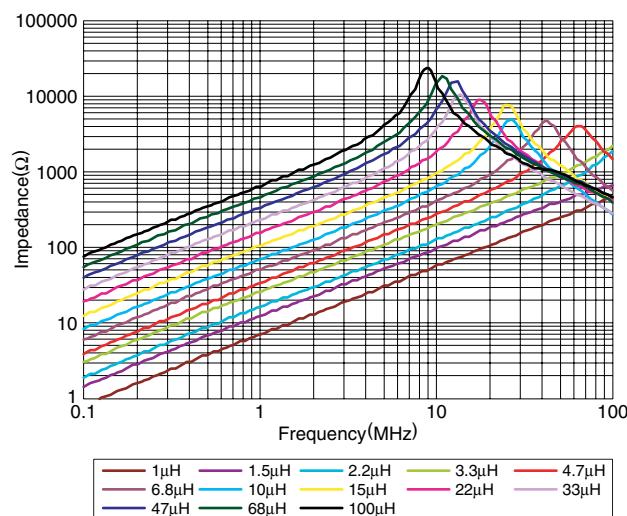
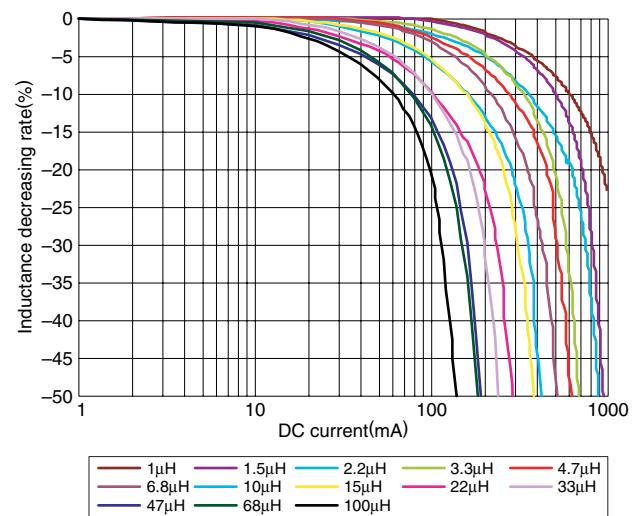
INDUCTANCE vs. FREQUENCY CHARACTERISTICS



INDUCTANCE vs. DC SUPERPOSITION CHARACTERISTICS



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TYPICAL ELECTRICAL CHARACTERISTICS
IMPEDANCE vs. FREQUENCY CHARACTERISTICS

DC SUPERPOSITION vs. INDUCTANCE DECREASING RATE


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