

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.

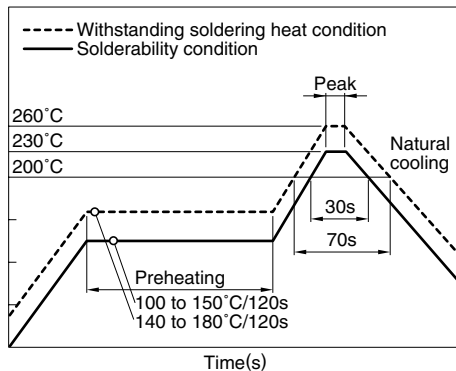
APPLICATIONS

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
------	------------

(3) Packaging style

T	Taping
---	--------

(4) Inductance

1R0	1μH
100	10μH
101	100μH

(5) Inductance tolerance

M	±20%
---	------

(6) TDK internal code

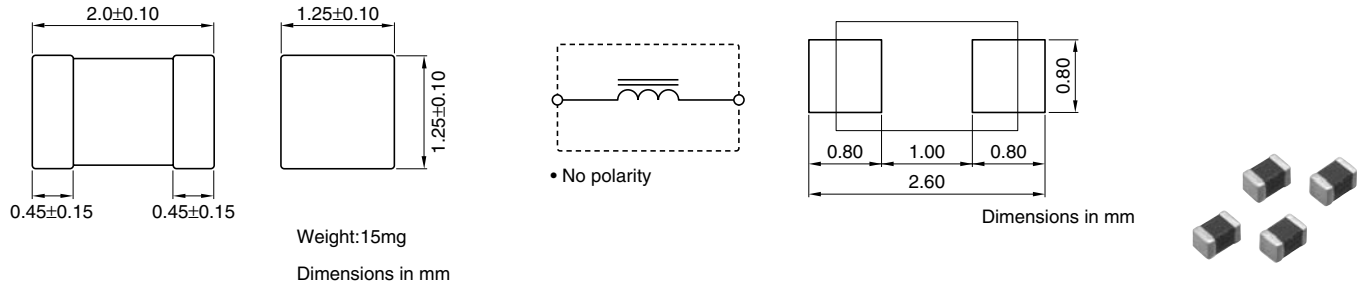
PACKAGING STYLE AND QUANTITIES

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.

• All specifications are subject to change without notice.

SHAPES AND DIMENSIONS/CIRCUIT DIAGRAM/RECOMMENDED PC BOARD PATTERN



ELECTRICAL CHARACTERISTICS

Inductance (μH)	Inductance tolerance (%)	DC resistance (Ω)±30%	Rated current*1 (mA)max.	Rated current*2 (mA)max.	Rated current*3 (mA)max.	Part No.
1	±20	0.09	490	850	900	GLCR2012T1R0M-HC
2.2	±20	0.2	350	550	600	GLCR2012T2R2M-HC
4.7	±20	0.29	225	420	500	GLCR2012T4R7M-HC
10	±20	0.5	155	270	380	GLCR2012T100M-HC
22	±20	1	105	180	250	GLCR2012T220M-HC
47	±20	2.4	70	120	170	GLCR2012T470M-HC
100	±20	4.5	40	85	130	GLCR2012T101M-HC

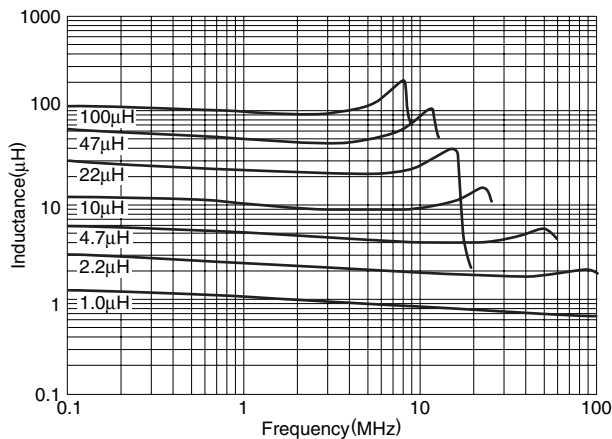
*1 Rated current based on inductance variation: Current when inductance decreases by 10% of the initial value due to direct current superimposed characteristics

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

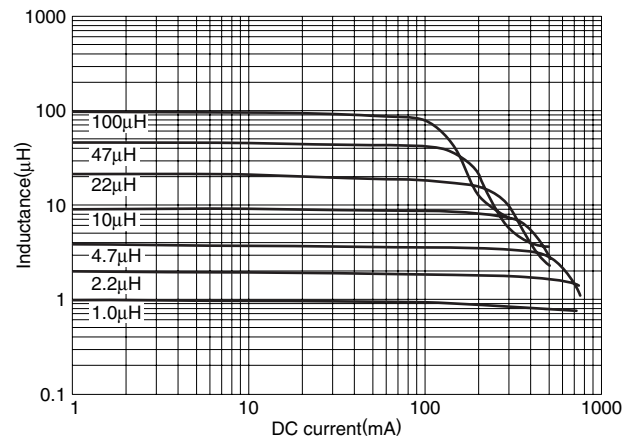
*3 Rated current based on increasing product temperature: Current when temperature of the product reaches +20°C

TYPICAL ELECTRICAL CHARACTERISTICS

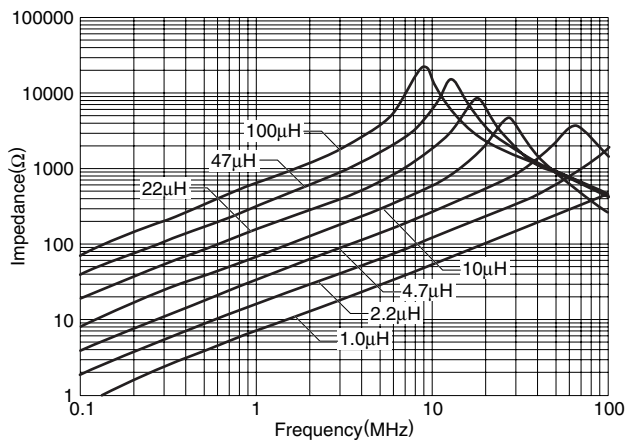
INDUCTANCE vs. FREQUENCY CHARACTERISTICS



INDUCTANCE vs. DC SUPERPOSITION CHARACTERISTICS



IMPEDANCE vs. FREQUENCY CHARACTERISTICS



DC SUPERPOSITION VS. INDUCTANCE DECREASING RATE

