Conformity to RoHS Directive

(1/3)

会TDK

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.)

Conformity to RoHS Directive: This means that, in conformity with EU Directive 2002/95/EC, lead, cadmium, mercury, hexavalent chromium, and specific

• All specifications are subject to change without notice.

GLCR Series GLCR2012

SMD Inductors(Coils)

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.

For Power Line(Wound, Magnetic Shielded)

· It's construction supports bulk mounting.

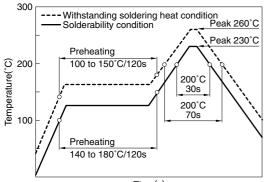
APPLICATIONS

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

SPECIFICATIONS

ncluding self-temperature rise]
10 to +105°C

RECOMMENDED SOLDERING CONDITIONS REFLOW SOLDERING



Time(s)

PRODUCT IDENTIFICATION

GLCR	2012	Т	100	Μ	- HC
(1)	(2)	(3)	(4)	(5)	(6)

(1) Series name

(2) Dimensions

2012

(3) Packaging style

Т	

Μ

(4) Inductance

1R0	1µH
100	10µH
101	100µH

2.0×1.25mm

Taping

±20%

(5) Inductance tolerance

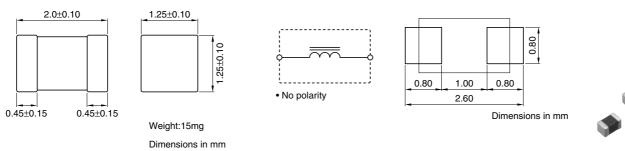
(6) TDK internal code

PACKAGING STYLE AND QUANTITIES

Packaging style	Quantity
Taping	2000 pieces/reel

(2/3)

SHAPES AND DIMENSIONS/CIRCUIT DIAGRAM/RECOMMENDED PC BOARD PATTERN



ELECTRICAL CHARACTERISTICS

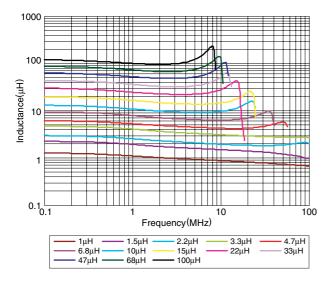
Inductance (µH)	Inductance tolerance (%)	DC resistance (Ω)±30%	Rated current*1 (mA)max.	Rated current* ² (mA)max.	Rated current ^{*3} (mA)max.	Part No.
1	±20	0.09	490	850	900	GLCR2012T1R0M-HC
1.5	±20	0.18	380	700	700	GLCR2012T1R5M-HC
2.2	±20	0.2	375	550	600	GLCR2012T2R2M-HC
3.3	±20	0.27	285	470	550	GLCR2012T3R3M-HC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

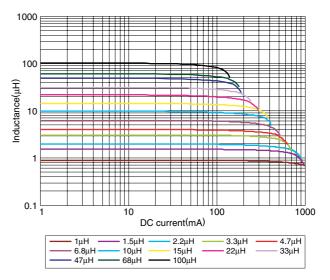
*2 Rated current based on inductance variation: Current when inductance decreases by 30% of the initial value due to direct current superimposed characteristics

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

TYPICAL ELECTRICAL CHARACTERISTICS INDUCTANCE vs. FREQUENCY CHARACTERISTICS

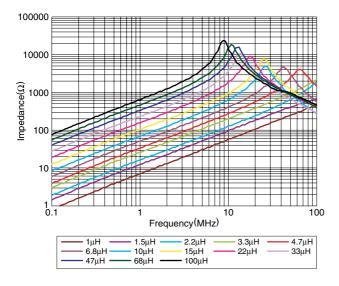


INDUCTANCE vs. DC SUPERPOSITION CHARACTERISTICS

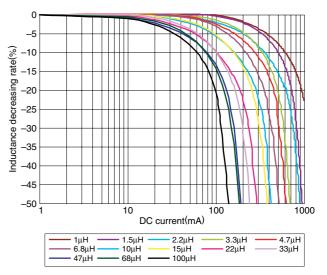


会TDK

TYPICAL ELECTRICAL CHARACTERISTICS IMPEDANCE vs. FREQUENCY CHARACTERISTICS



DC SUPERPOSITION vs. INDUCTANCE DECREASING RATE



• All specifications are subject to change without notice.