

SMD Inductors(Coils) For Power Line(Wound, Magnetic Shielded)

Conformity to RoHS Directive

GLCR Series GLCR2012

FEATURES

- It delivers low Rdc with high I_{dc}.
- 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.

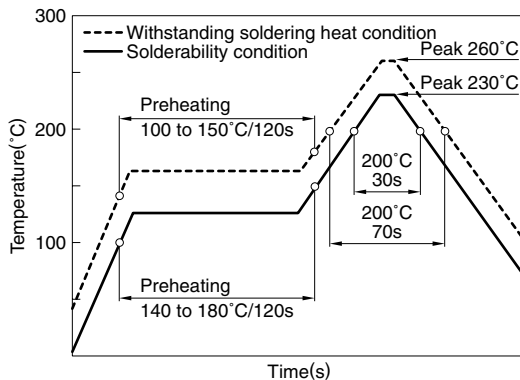
APPLICATIONS

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

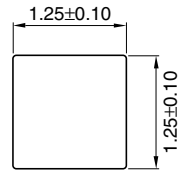
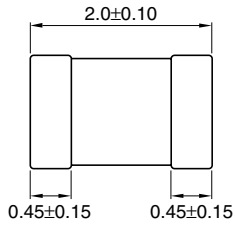
| | |
|-----------------|------------------|
| Packaging style | Quantity |
| Taping | 2000 pieces/reel |

• 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.

• 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.)

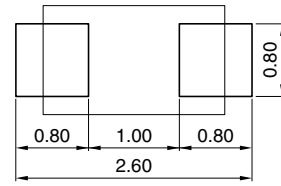
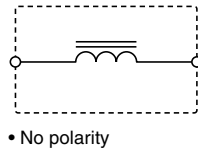
• All specifications are subject to change without notice.

SHAPES AND DIMENSIONS/CIRCUIT DIAGRAM/RECOMMENDED PC BOARD PATTERN

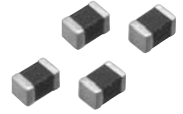


Weight: 15mg

Dimensions in mm



Dimensions in mm



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 |

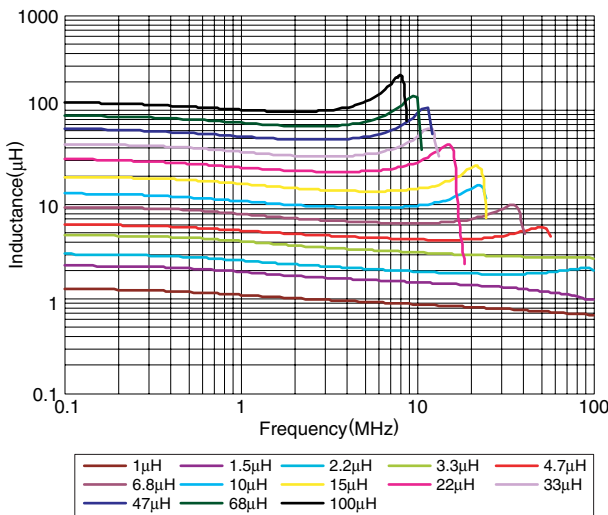
*1 Rated current based on inductance variation: Current when inductance decreases by 10% of the initial value due to direct current superimposed characteristics

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

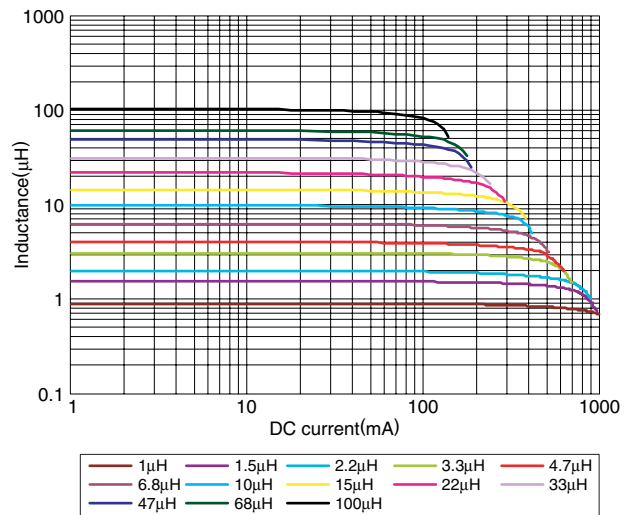
*3 Rated current based on increasing product temperature: Current when temperature of the product reaches +20°C

TYPICAL ELECTRICAL CHARACTERISTICS

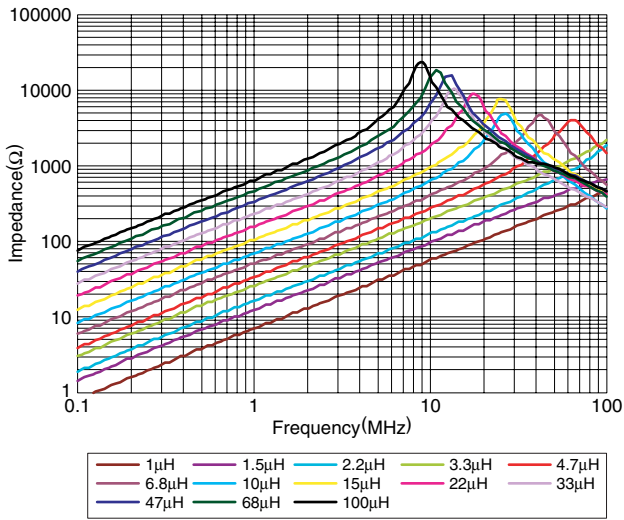
INDUCTANCE vs. FREQUENCY CHARACTERISTICS



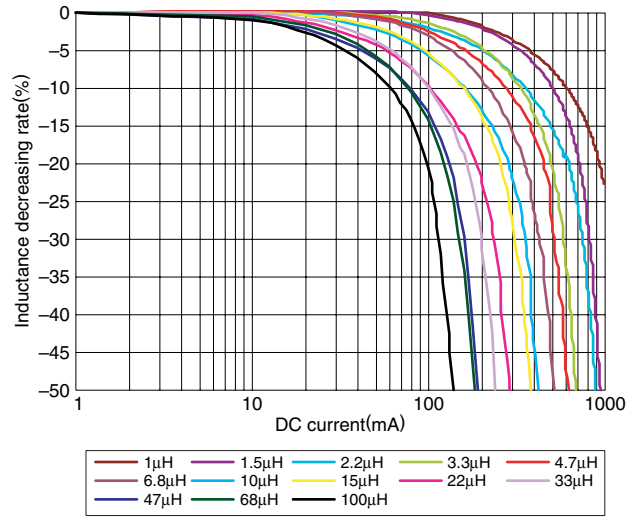
INDUCTANCE vs. DC SUPERPOSITION CHARACTERISTICS



TYPICAL ELECTRICAL CHARACTERISTICS IMPEDANCE vs. FREQUENCY CHARACTERISTICS



DC SUPERPOSITION vs. INDUCTANCE DECREASING RATE



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Mouser Electronics

Authorized Distributor

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[GLCR2012T100M-HC](#) [GLCR2012T220M-HC](#)