会TDK

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

Conformity to RoHS Directive

GLCR Series GLCR2012

FEATURES

- It delivers low Rdc with high ldc.
- 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.

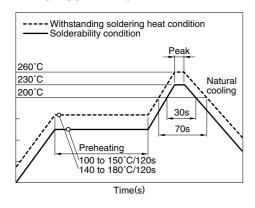
APPLICATIONS

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	Т	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	1μΗ
100	10μH
101	100μΗ

(5) Inductance tolerance

M	±20%

(6) TDK internal code

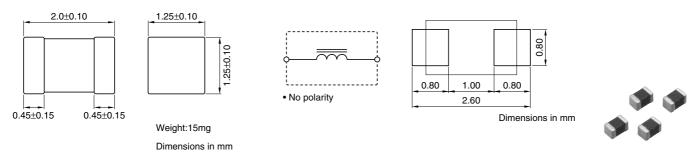
PACKAGING STYLE AND QUANTITIES

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.

ATDK

SHAPES AND DIMENSIONS/CIRCUIT DIAGRAM/RECOMMENDED PC BOARD PATTERN

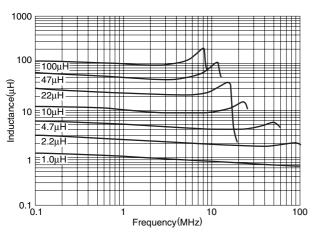


ELECTRICAL CHARACTERISTICS

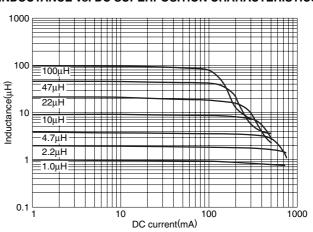
Inductance	Inductance tolerance	DC resistance	Rated current*1	Rated current*2	Rated current*3	Part No.
(μH)	(%)	$(\Omega)\pm30\%$	(mA)max.	(mA)max.	(mA)max.	
1	±20	0.09	490	850	900	GLCR2012T1R0M-HC
2.2	±20	0.2	350	550	600	GLCR2012T2R2M-HC
4.7	±20	0.29	225	420	500	GLCR2012T4R7M-HC
10	±20	0.5	155	270	380	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

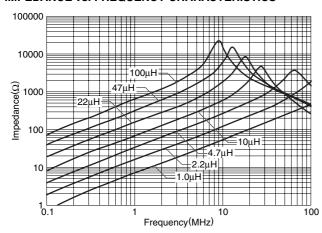
TYPICAL ELECTRICAL CHARACTERISTICS INDUCTANCE vs. FREQUENCY CHARACTERISTICS



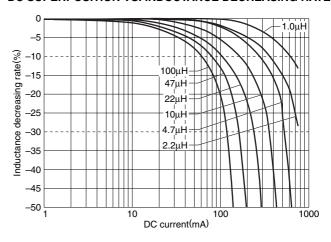
INDUCTANCE vs. DC SUPERPOSITION CHARACTERISTICS



IMPEDANCE vs. FREQUENCY CHARACTERISTICS



DC SUPERPOSITION VS. INDUCTANCE DECREASING RATE



^{*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

[•] All specifications are subject to change without notice.