Conformity to RoHS Directive

# (1/3)

**会TDK** 

# GLFR Series GLFR2012

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.

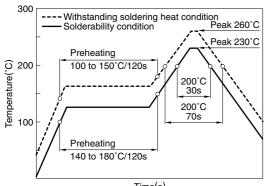
# APPLICATIONS

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

## SPECIFICATIONS

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

## RECOMMENDED SOLDERING CONDITIONS REFLOW SOLDERING



Time(s)

#### PRODUCT IDENTIFICATION

GLFR	2012	Т	100	М	- LR
(1)	(2)	(3)	(4)	(5)	(6)

(1) Series name

(2) Dimensions

2012

#### (3) Packaging style

	Т	
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(4) Inductance

1R0	1µH
100	10µH
101	100µH

2.0×1.25mm

Taping

±20%

(5) Inductance tolerance

Μ

### (6) TDK internal code

## PACKAGING STYLE AND QUANTITIES

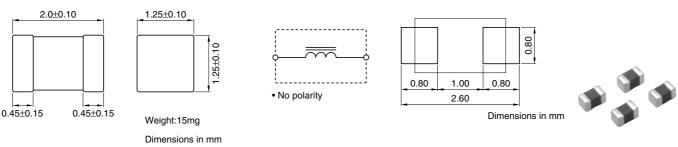
Packaging style	Quantity			
Taping	2000 pieces/reel			

- 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.

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## SHAPES AND DIMENSIONS/CIRCUIT DIAGRAM/RECOMMENDED PC BOARD PATTERN



#### **ELECTRICAL CHARACTERISTICS**

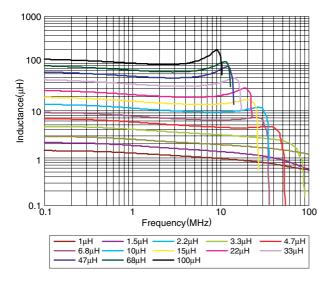
Inductance	Inductance tolerance	DC resistance	Rated current*1	Rated current*2	Rated current*3	Part No.
(µH)	(%)	(Ω)±30%	(mA)max.	(mA)max.	(mA)max.	
1	±20	0.058	300	550	1150	GLFR2012T1R0M-LR
1.5	±20	0.084	260	450	950	GLFR2012T1R5M-LR
2.2	±20	0.088	240	400	900	GLFR2012T2R2M-LR
3.3	±20	0.18	190	300	700	GLFR2012T3R3M-LR
4.7	±20	0.2	140	280	600	GLFR2012T4R7M-LR
6.8	±20	0.27	120	200	550	GLFR2012T6R8M-LR
10	±20	0.3	100	180	500	GLFR2012T100M-LR
15	±20	0.5	85	140	400	GLFR2012T150M-LR
22	±20	0.7	75	110	300	GLFR2012T220M-LR
33	±20	1.2	65	95	250	GLFR2012T330M-LR
47	±20	1.38	50	85	230	GLFR2012T470M-LR
68	±20	2.1	40	70	180	GLFR2012T680M-LR
100	±20	3	30	60	160	GLFR2012T101M-LR

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

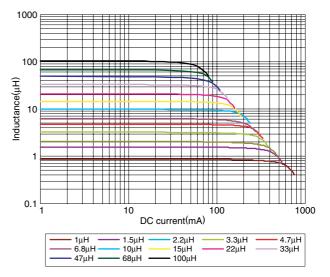
\*2 Rated current based on inductance variation: Current when inductance decreases by 30% of the initial value due to direct current superimposed characteristics

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

## TYPICAL ELECTRICAL CHARACTERISTICS INDUCTANCE vs. FREQUENCY CHARACTERISTICS

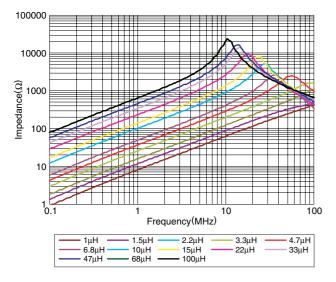


#### INDUCTANCE vs. DC SUPERPOSITION CHARACTERISTICS

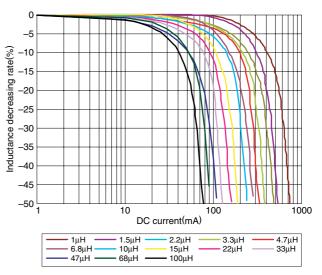


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### TYPICAL ELECTRICAL CHARACTERISTICS IMPEDANCE vs. FREQUENCY CHARACTERISTICS



DC SUPERPOSITION vs. INDUCTANCE DECREASING RATE



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