

# SMD Inductors(Coils)

## For Power Line(Wound, Magnetic Shielded)

Conformity to RoHS Directive

### GLF Series GLF2012

#### 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

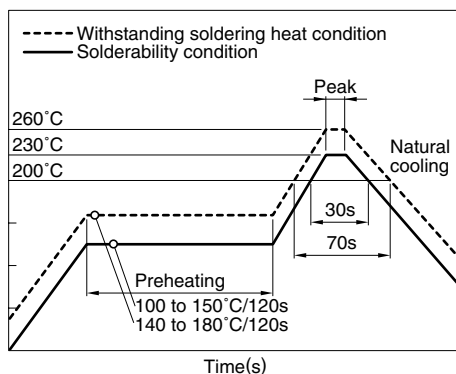
- Portable audio visual devices (DSC, DVD and MD)
- Mobile communication devices (cellular phones, PHS, etc.)

#### SPECIFICATIONS

|                             |               |
|-----------------------------|---------------|
| Operating temperature range | -40 to +105°C |
| Storage temperature range   | -40 to +105°C |

#### RECOMMENDED SOLDERING CONDITIONS

##### REFLOW SOLDERING

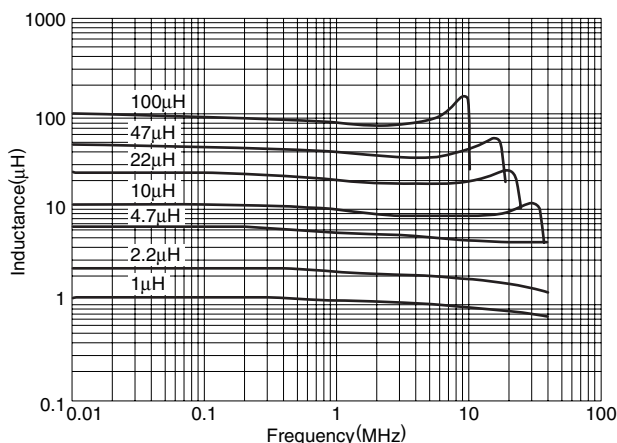


#### PACKAGING STYLE AND QUANTITIES

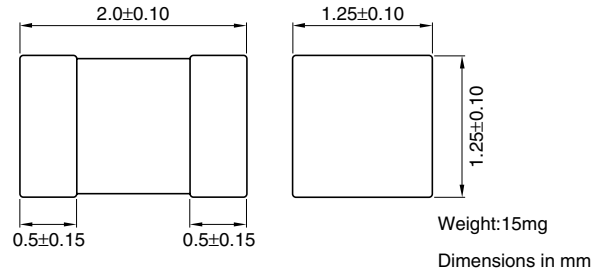
|                 |                  |
|-----------------|------------------|
| Packaging style | Quantity         |
| Taping          | 2000 pieces/reel |

#### TYPICAL ELECTRICAL CHARACTERISTICS

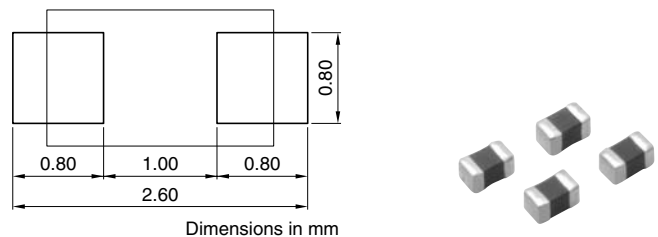
##### INDUCTANCE vs. FREQUENCY CHARACTERISTICS



#### SHAPES AND DIMENSIONS



#### RECOMMENDED PC BOARD PATTERN

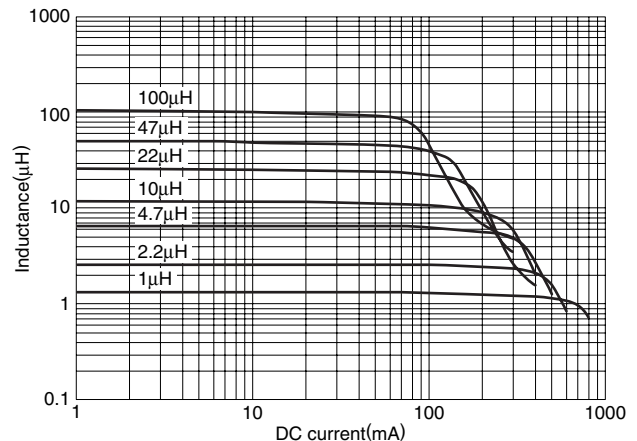


#### ELECTRICAL CHARACTERISTICS

| Part No.      | Inductance (μH) | Inductance tolerance (%) | DC resistance (Ω)±30% | Rated current (mA)max. |
|---------------|-----------------|--------------------------|-----------------------|------------------------|
| GLF2012T1R0M  | 1.0             | ±20                      | 0.07                  | 400                    |
| GLF2012T2R2M  | 2.2             | ±20                      | 0.10                  | 300                    |
| GLF2012T4R7M  | 4.7             | ±20                      | 0.24                  | 200                    |
| GLF2012T100□* | 10.0            | ±10, ±20                 | 0.36                  | 140                    |
| GLF2012T220□  | 22.0            | ±10, ±20                 | 1.00                  | 100                    |
| GLF2012T470□  | 47.0            | ±10, ±20                 | 1.70                  | 75                     |
| GLF2012T101□  | 100.0           | ±10, ±20                 | 4.00                  | 50                     |

\* □: Please specify inductance tolerance, K (±10%) or M (±20%)

##### INDUCTANCE vs. DC SUPERPOSITION CHARACTERISTICS



• 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.