

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

Conformity to RoHS Directive

## GLF Series GLF1608

### 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 is a product conforming to RoHS directive.
- It's construction supports bulk mounting.

### APPLICATIONS

Perfect coil for step-up and step-down circuits, and decoupling circuits for each set power supply circuit

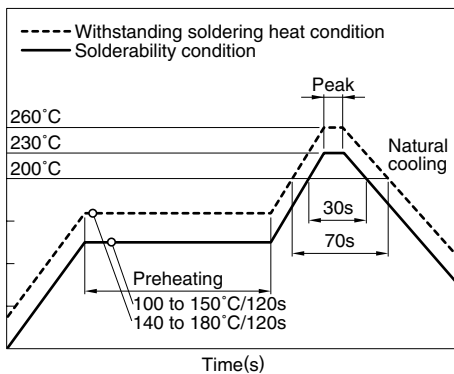
- Portable audio visual devices (DSC, DVC, Audio, etc.)
- Mobile communication devices (cellular phones, LCD panel, etc.)
- Information devices (TVs, DVDs, STBs, PCs, HDDs, etc.)
- Amusement devices (Video games, etc.)

### SPECIFICATIONS

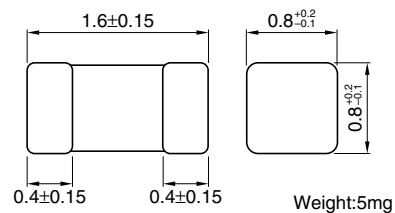
Operating temperature range	-40 to +105°C [Including self-temperature rise]
Storage temperature range	-40 to +105°C

### RECOMMENDED SOLDERING CONDITIONS

#### REFLOW SOLDERING



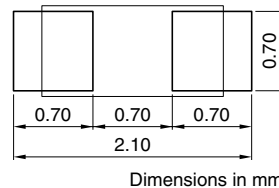
### SHAPES AND DIMENSIONS



Dimensions in mm



### RECOMMENDED PC BOARD PATTERN



### PACKAGING STYLE AND QUANTITIES

Packaging style	Quantity
Taping	4000 pieces/reel

### ELECTRICAL CHARACTERISTICS

Part No.	Inductance (μH)	Inductance tolerance (%)	DC resistance (Ω)±30%	Rated current*1 (mA)max.	Rated current*2 (mA)max.	Rated current*3 (mA)max.
GLF1608T1R0M	1.0	±20	0.17	125	220	400
GLF1608T2R2M	2.2	±20	0.33	75	160	275
GLF1608T4R7M	4.7	±20	0.55	70	115	220
GLF1608T100M	10.0	±20	0.70	50	90	180
GLF1608T220M	22.0	±20	3.00	35	60	100

\*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 20% 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

#### • Test equipment

L: Agilent 4294A IMPEDANCE ANALYZER, or equivalent

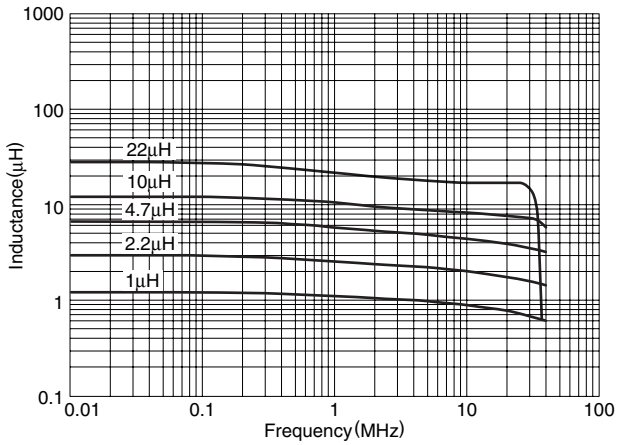
Rdc: MATSUSHITA DIGITAL MILLOHM METER VP-2941A, or equivalent

- 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.

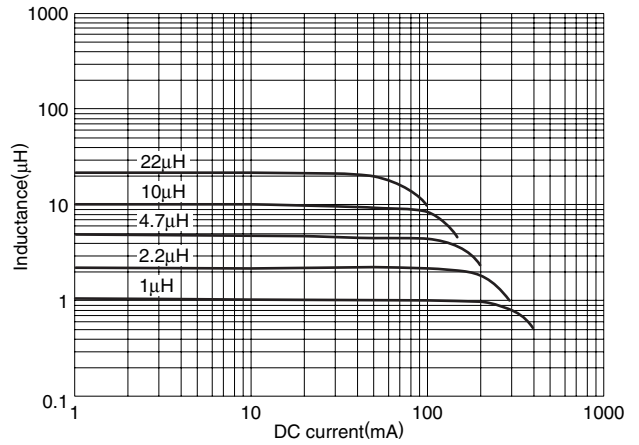
• All specifications are subject to change without notice.

### TYPICAL ELECTRICAL CHARACTERISTICS

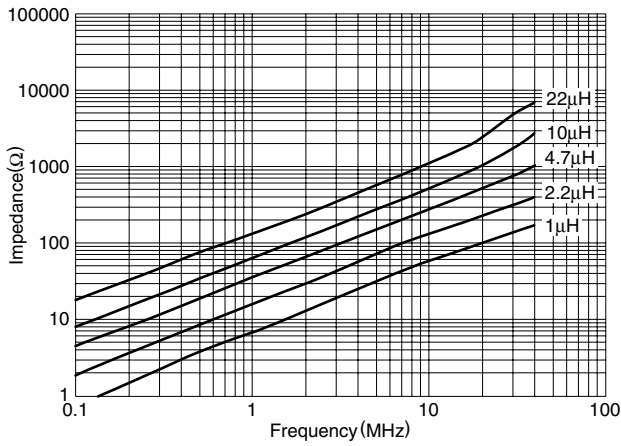
#### INDUCTANCE vs. FREQUENCY CHARACTERISTICS



#### INDUCTANCE vs. DC SUPERPOSITION CHARACTERISTICS



#### IMPEDANCE vs. FREQUENCY CHARACTERISTICS



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