

Wound Type SMD Inductors(Coils)

For DC to DC Converters

LTF(Closed Magnetic Circuit Core) series

Type: LTF5022

Issue date: November 2010

- All specifications are subject to change without notice.
 - 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.
-

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

Conformity to RoHS Directive

LTF Series LTF5022

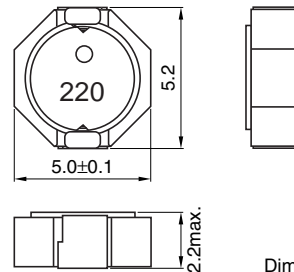
FEATURES

- Miniature size
Mount area: 5.0×5.2mm
Low profile: 2.2mm max. height
- Large DC current products.
- Magnetic shielding type with ferrite core.
- Available for automatic mounting in tape and reel package.
- The products do not contain lead and support lead-free soldering.

APPLICATIONS

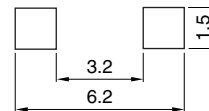
DVCs, DSCs, PDAs, HDDs, LCD displays, cellular phones, cordless telephones, etc.

SHAPES AND DIMENSIONS



Dimensions in mm

RECOMMENDED PC BOARD PATTERN



Dimensions in mm

ELECTRICAL CHARACTERISTICS

Part No.	Inductance (μH)	Inductance tolerance(%)	Test frequency (kHz)	DC resistance(Ω)		Rated current(A)*	
				max.	typ.	Based on inductance change max.	Based on temperature rise typ.
LTF5022T-1R2N4R2-LC	1.2	±30	100	0.025	0.021	4.3	4.2
LTF5022T-1R8N3R6-LC	1.8	±30	100	0.032	0.028	3.6	3.8
LTF5022T-2R2N3R2-LC	2.2	±30	100	0.040	0.036	3.2	3.4
LTF5022T-3R3N2R5-LC	3.3	±30	100	0.060	0.054	2.5	2.7
LTF5022T-4R7N2R0-LC	4.7	±30	100	0.081	0.073	2.0	2.3
LTF5022T-100M1R4-LC	10.0	±20	100	0.16	0.14	1.4	1.7
LTF5022T-220MR98-LC	22.0	±20	100	0.32	0.28	0.9	1.2

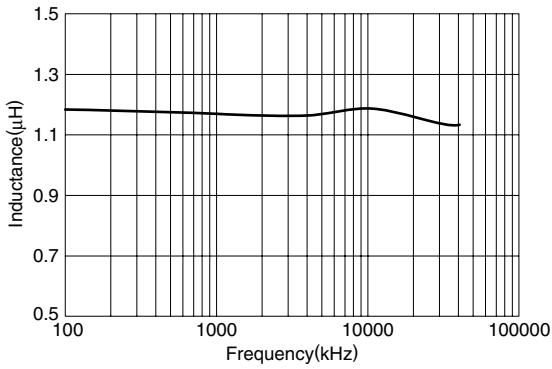
* Rated current: Value obtained when current flows and the temperature has risen to 40°C or when DC current flows and the nominal value of inductance has fallen by 30%, whichever is smaller.

- Operating temperature range: -40 to +105°C (Including self-temperature rise)

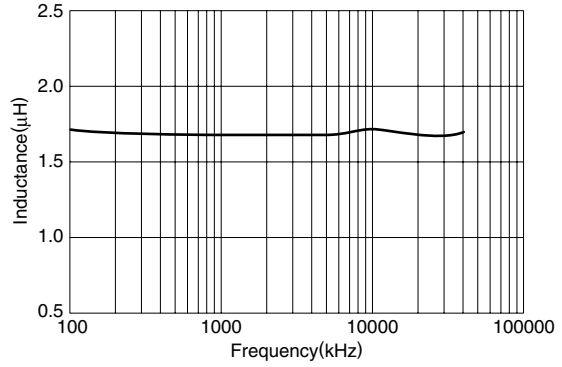
• Conformity to RoHS Directive: This means that, in conformity with EU Directive 2002/95/EC, lead, cadmium, mercury, hexavalent chromium, and specific bromine-based flame retardants, PBB and PBDE, have not been used, except for exempted applications.

• All specifications are subject to change without notice.

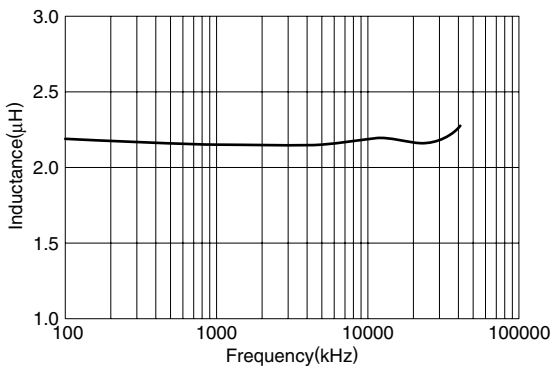
TYPICAL ELECTRICAL CHARACTERISTICS
INDUCTANCE vs. FREQUENCY CHARACTERISTICS
LTF5022T-1R2N4R2



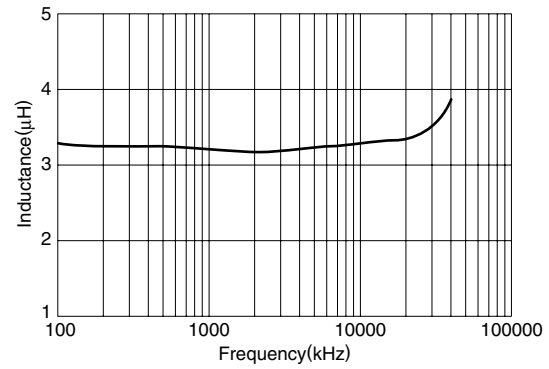
LTF5022T-1R8N3R6



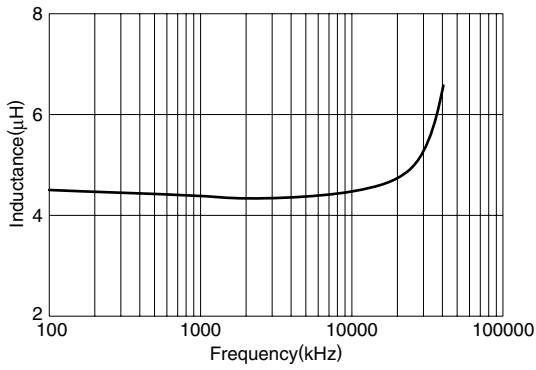
LTF5022T-2R2N3R2



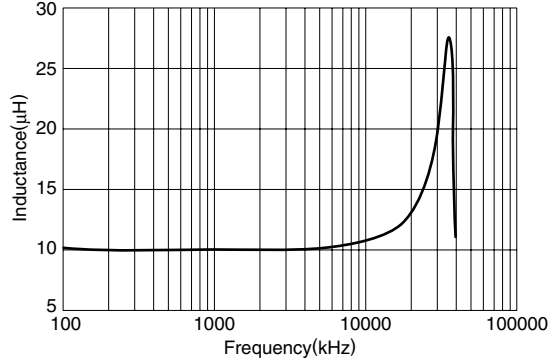
LTF5022T-3R3N2R5



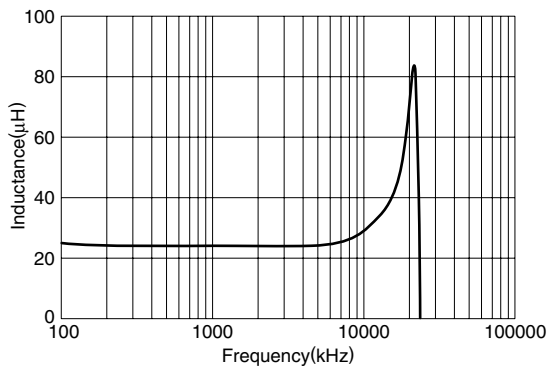
LTF5022T-4R7N2R0



LTF5022T-100M1R4



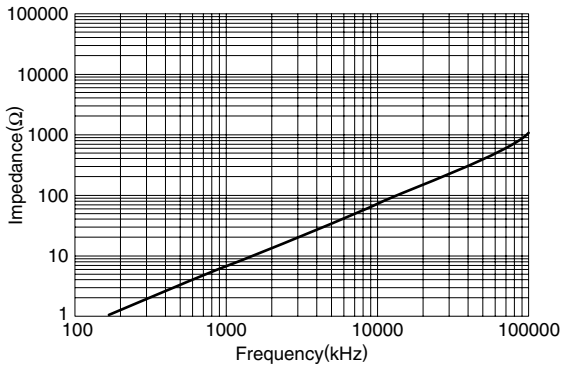
LTF5022T-220MR98



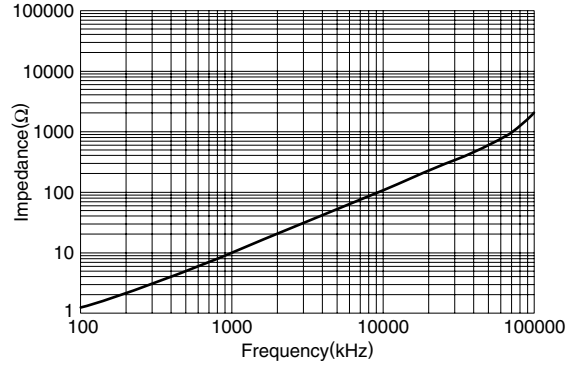
• TEST EQUIPMENT: YHP4194A IMPEDANCE/GAIN-PHASE ANALYZER

• All specifications are subject to change without notice.

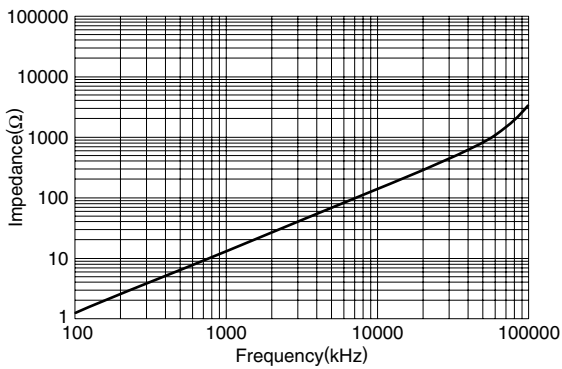
TYPICAL ELECTRICAL CHARACTERISTICS
IMPEDANCE vs. FREQUENCY CHARACTERISTICS
LTF5022T-1R2N4R2



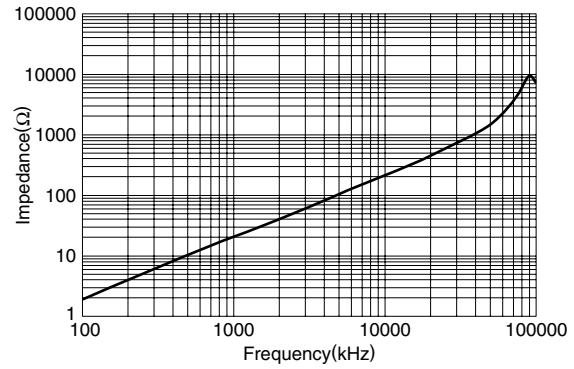
LTF5022T-1R8N3R6



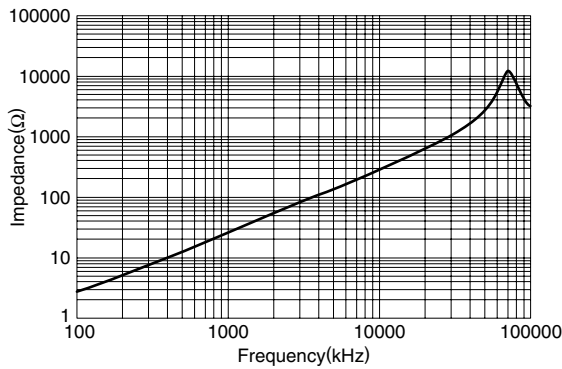
LTF5022T-2R2N3R2



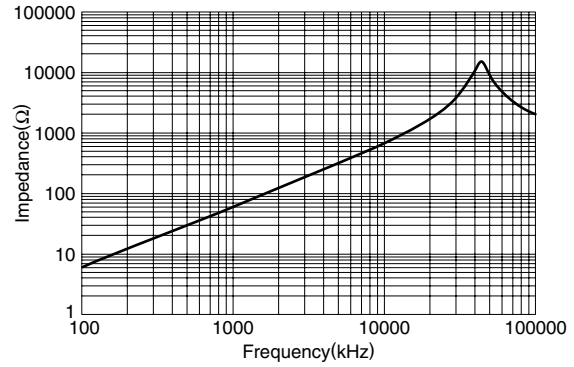
LTF5022T-3R3N2R5



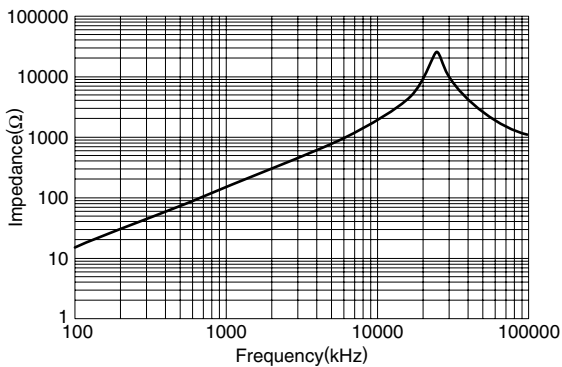
LTF5022T-4R7N2R0



LTF5022T-100M1R4



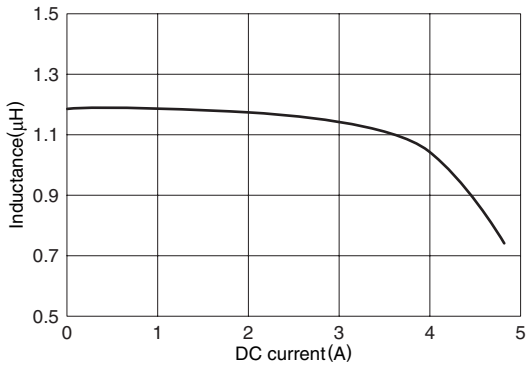
LTF5022T-220MR98



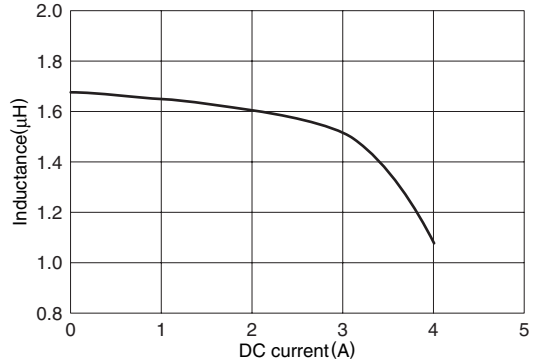
• TEST EQUIPMENT: YHP4194A IMPEDANCE/GAIN-PHASE ANALYZER

• All specifications are subject to change without notice.

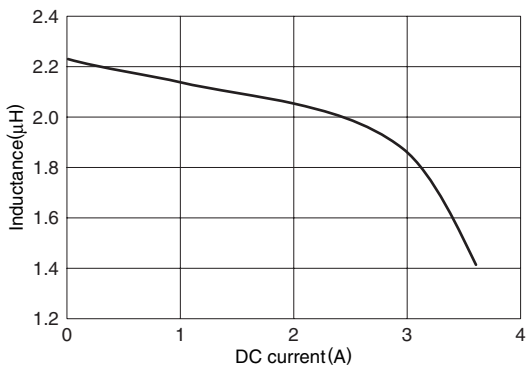
TYPICAL ELECTRICAL CHARACTERISTICS
INDUCTANCE vs. DC SUPERPOSITION CHARACTERISTICS
LTF5022T-1R2N4R2



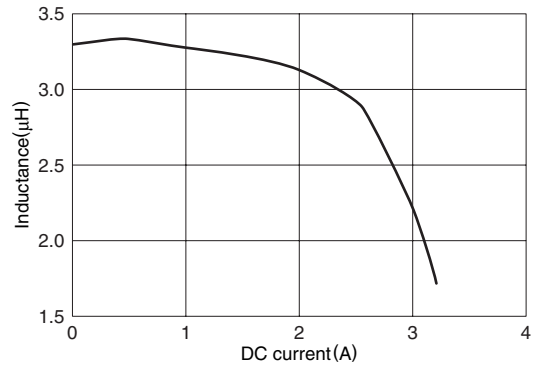
LTF5022T-1R8N3R6



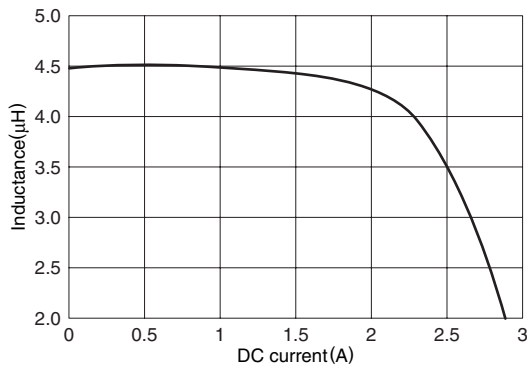
LTF5022T-2R2N3R2



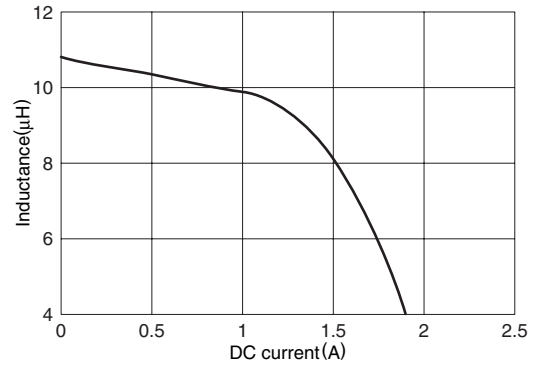
LTF5022T-3R3N2R5



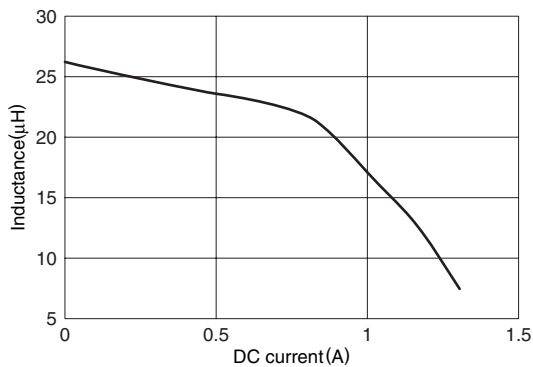
LTF5022T-4R7N2R0



LTF5022T-100M1R4



LTF5022T-220MR98



• TEST EQUIPMENT: HP4285A LCR METER(f=100kHz) DC CONSTANT CURRENT SOURCE

• All specifications are subject to change without notice.