

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

Conformity to RoHS Directive

VLF Series VLF4012S

FEATURES

· Miniature size

Mount area: 3.6×3.8mm Low profile: 1.2mm max. height

- Generic use for portable DC to DC converter line.
- High magnetic shield construction should actualize high resolution for EMC protection.
- Available for automatic mounting in tape and real package.
- The products contain no lead and also support lead-free soldering.
- It is a product conforming to RoHS directive.

APPLICATIONS

Power souce inductor for mobile devices such as mobile phones, HDDs, and DSCs

SHAPES AND DIMENSIONS

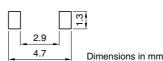






Dimensions in mm

RECOMMENDED PC BOARD PATTERN

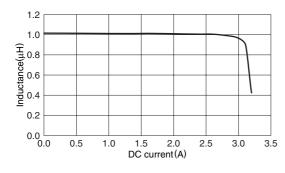


ELECTRICAL CHARACTERISTICS

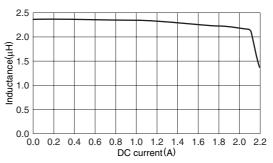
Part No.	Inductance (µH)	Inductance tolerance(%)	Test frequency (MHz)	DC resistance(Ω)		Rated current(A)*	
				max.	typ.	Based on inductance change max.	Based on temperature rise typ.
VLF4012ST-1R0N1R9	1	±30	1	0.054	0.045	2.7	1.9
VLF4012ST-2R2M1R3	2.2	±20	1	0.12	0.097	1.7	1.3
VLF4012ST-3R3M1R1	3.3	±20	1	0.16	0.13	1.5	1.1
VLF4012ST-4R7M1R0	4.7	±20	1	0.19	0.16	1.4	1
VLF4012ST-6R8MR80	6.8	±20	1	0.32	0.27	1	0.8
VLF4012ST-100MR65	10	±20	1	0.49	0.41	0.9	0.65

^{*} 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.

TYPICAL ELECTRICAL CHARACTERISTICS INDUCTANCE vs. DC SUPERPOSITION CHARACTERISTICS VLF4012ST-1R0N1R9



VLF4012ST-2R2M1R3

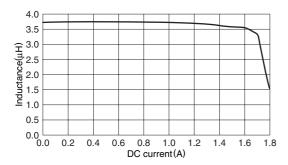


[•] Operating temperature range: -40 to +105°C (Including self-temperature rise)

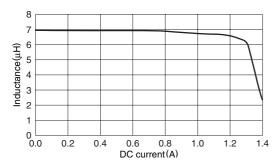
[•] Conformity to RoHS Directive: This means that, in conformity with EU Directive 2002/95/EC, lead, cadmium, mercury, hexavalent chromium, and specific bromine-based flame retardants, PBB and PBDE, have not been used, except for exempted applications.



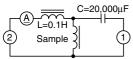
TYPICAL ELECTRICAL CHARACTERISTICS INDUCTANCE vs. DC SUPERPOSITION CHARACTERISTICS VLF4012ST-3R3M1R1



VLF4012ST-6R8MR80

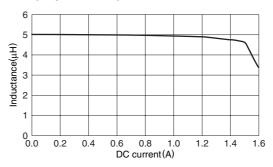


TEST CIRCUIT

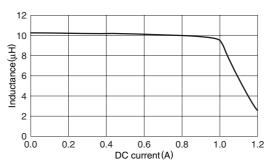


1: LCR meter 4285A f=1MHz 2: DC constant current

VLF4012ST-4R7M1R0



VLF4012ST-100MR65



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