

# VLF3012AT-220MR33 Datasheet



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DiGi Electronics Part Number	VLF3012AT-220MR33-DG
Manufacturer	<a href="#">TDK Corporation</a>
Manufacturer Product Number	VLF3012AT-220MR33
Description	FIXED IND 22UH 330MA 760MOHM SMD
Detailed Description	22 $\mu$ H Shielded Drum Core, Wirewound Inductor 330 mA 760mOhm Max Nonstandard



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## Purchase and inquiry

Manufacturer Product Number:

VLF3012AT-220MR33

Series:

VLF

Type:

Drum Core, Wirewound

Inductance:

22  $\mu$ H

Current Rating (Amps):

330 mA

Shielding:

Shielded

Q @ Freq:

-

Ratings:

-

Inductance Frequency - Test:

100 kHz

Package / Case:

Nonstandard

Size / Dimension:

0.110" L x 0.102" W (2.80mm x 2.60mm)

Manufacturer:

TDK Corporation

Product Status:

Obsolete

Material - Core:

Ferrite

Tolerance:

$\pm$ 20%

Current - Saturation (Isat):

330mA

DC Resistance (DCR):

760mOhm Max

Frequency - Self Resonant:

-

Operating Temperature:

-40°C ~ 105°C

Mounting Type:

Surface Mount

Supplier Device Package:

-

Height - Seated (Max):

0.047" (1.20mm)

## Environmental & Export classification

Moisture Sensitivity Level (MSL):

1 (Unlimited)

ECCN:

EAR99

REACH Status:

REACH Unaffected

HTSUS:

8504.50.4000

# SMD Inductors(Coils)

## For Power Line(Wound, Magnetic Shielded)

Conformity to RoHS Directive

### VLF Series VLF3012A

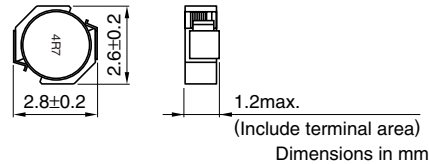
#### FEATURES

- Miniature size  
Mount area: 2.6×2.8mm  
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 reel package.
- The products do not contain lead and support lead-free soldering.

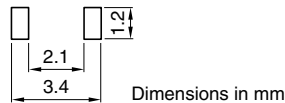
#### APPLICATIONS

DVCs, DSCs, PDAs, LCD displays, Cellular phones, HDDs, etc.

#### SHAPES AND DIMENSIONS



#### RECOMMENDED PC BOARD PATTERN



#### 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.
VLF3012AT-1R5N1R2	1.5	±30	100	0.068	0.059	1.2	1.6
VLF3012AT-2R2M1R0	2.2	±20	100	0.1	0.088	1.0	1.3
VLF3012AT-3R3MR87	3.3	±20	100	0.13	0.11	0.87	1.2
VLF3012AT-4R7MR74	4.7	±20	100	0.19	0.16	0.74	0.98
VLF3012AT-6R8MR59	6.8	±20	100	0.27	0.23	0.59	0.83
VLF3012AT-100MR49	10	±20	100	0.41	0.36	0.49	0.67
VLF3012AT-150MR41	15	±20	100	0.62	0.54	0.41	0.54
VLF3012AT-220MR33	22	±20	100	0.76	0.66	0.33	0.49
VLF3012AT-330MR27	33	±20	100	1.3	1.1	0.27	0.38
VLF3012AT-470MR22	47	±20	100	2.2	1.9	0.22	0.29

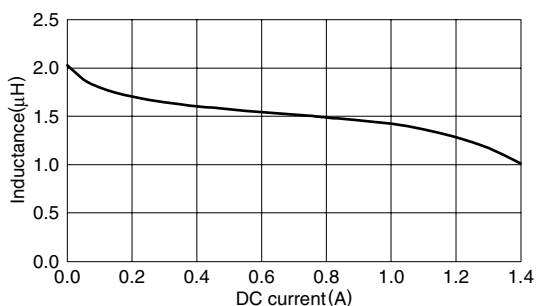
\* Rated current: Value obtained when current flows and the temperature has risen to 40°C or when DC current flows and the nominal value of inductance has fallen by 30%, whichever is smaller.

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

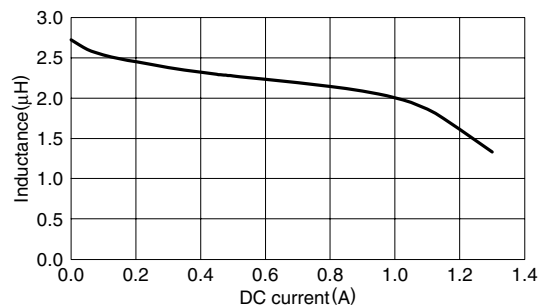
#### TYPICAL ELECTRICAL CHARACTERISTICS

##### INDUCTANCE vs. DC SUPERPOSITION CHARACTERISTICS

###### VLF3012AT-1R5N1R2



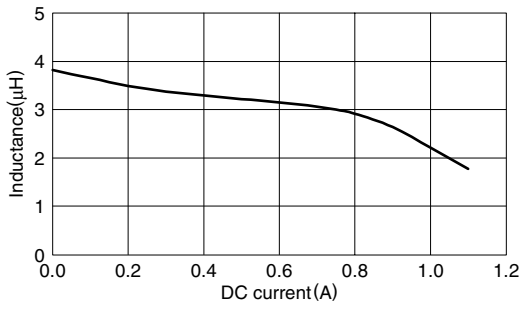
###### VLF3012AT-2R2M1R0



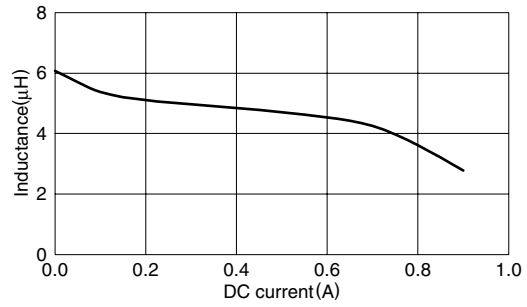
• Conformity to RoHS Directive: This means that, in conformity with EU Directive 2002/95/EC, lead, cadmium, mercury, hexavalent chromium, and specific bromine-based flame retardants, PBB and PBDE, have not been used, except for exempted applications.

• All specifications are subject to change without notice.

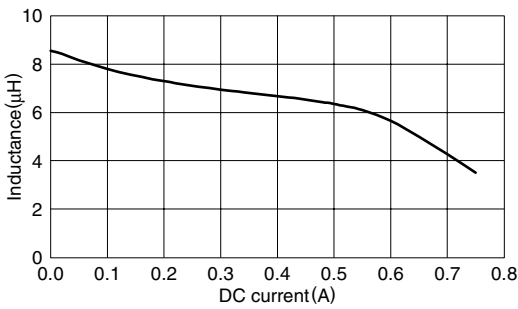
**TYPICAL ELECTRICAL CHARACTERISTICS**  
**INDUCTANCE vs. DC SUPERPOSITION CHARACTERISTICS**  
**VLF3012AT-3R3MR87**



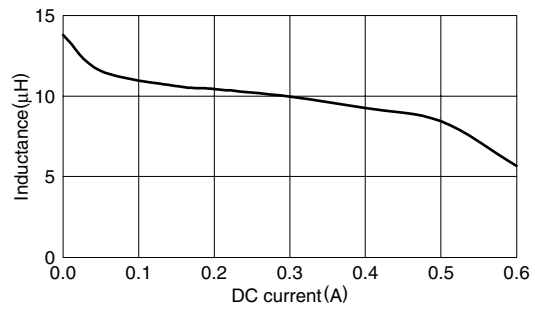
**VLF3012AT-4R7MR74**



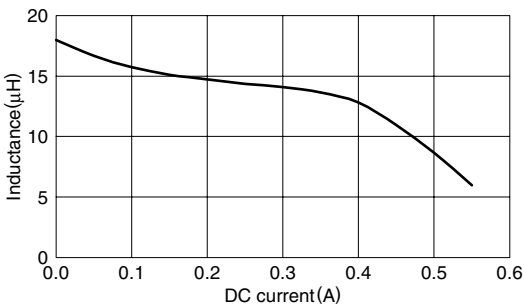
**VLF3012AT-6R8MR59**



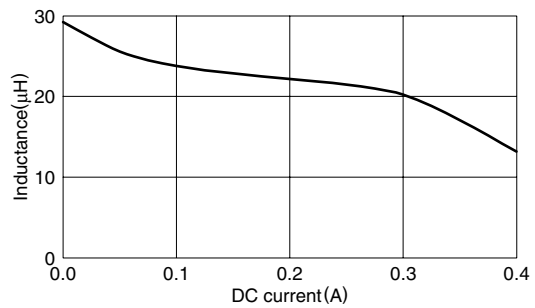
**VLF3012AT-100MR49**



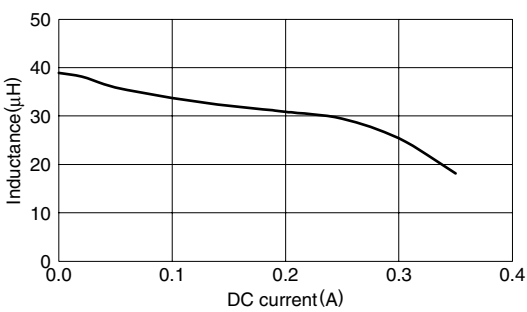
**VLF3012AT-150MR41**



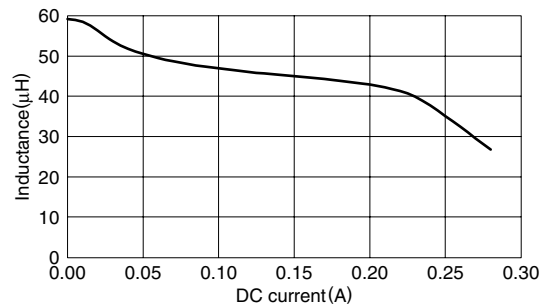
**VLF3012AT-220MR33**



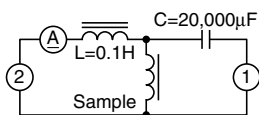
**VLF3012AT-330MR27**



**VLF3012AT-470MR22**



**TEST CIRCUIT**



1: LCR meter 4285A=100kHz  
 2: DC constant current



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