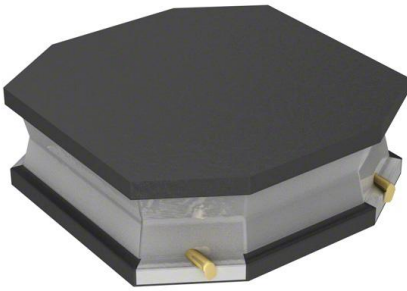


VLS3010T-6R8MR75 Datasheet

www.digi-electronics.com



<https://www.DiGi-Electronics.com>

| | |
|------------------------------|---|
| DiGi Electronics Part Number | VLS3010T-6R8MR75-DG |
| Manufacturer | TDK Corporation |
| Manufacturer Product Number | VLS3010T-6R8MR75 |
| Description | FIXED IND 6.8UH 750MA 312MOHM SM |
| Detailed Description | 6.8 μ H Shielded Wirewound Inductor 750 mA 312m Ohm Max Nonstandard |



Tel: +00 852-30501935

RFQ Email: Info@DiGi-Electronics.com

DiGi is a global authorized distributor of electronic components.

Purchase and inquiry

Manufacturer Product Number:

VLS3010T-6R8MR75

Series:

VLS

Type:

Wirewound

Inductance:

6.8 μ H

Current Rating (Amps):

750 mA

Shielding:

Shielded

Q @ Freq:

-

Ratings:

-

Inductance Frequency - Test:

1 MHz

Package / Case:

Nonstandard

Size / Dimension:

0.118" L x 0.118" W (3.00mm x 3.00mm)

Manufacturer:

TDK Corporation

Product Status:

Obsolete

Material - Core:

-

Tolerance:

\pm 20%

Current - Saturation (Isat):

750mA

DC Resistance (DCR):

312mOhm Max

Frequency - Self Resonant:

-

Operating Temperature:

-40°C ~ 105°C

Mounting Type:

Surface Mount

Supplier Device Package:

-

Height - Seated (Max):

0.039" (1.00mm)

Environmental & Export classification

RoHS Status:

ROHS3 Compliant

ECCN:

EAR99

Moisture Sensitivity Level (MSL):

1 (Unlimited)

HTSUS:

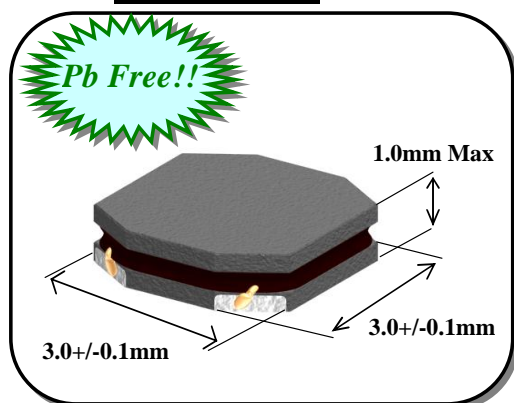
8504.50.4000

New products!!

VLS3010 TYPE

SMD Power Inductor

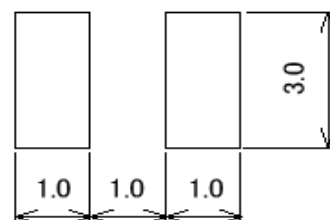
Component Image & Dimensions



Features :

- Miniature Size :
Mount Area : 3.0mm x 3.0mm
Low Profile : 1.0mm Max. Height
- Generic use for portable DC/DC Converter.
- High Magnetic Shield Construction should actualize
High Resolution for EMC Protection.
- Automatic Mounting in Tape&Reel Package.

Recommended Land Pattern



unit: mm

Applications :

DVC , DSC , PDA, LCD Display
Cellular Phone, HDD etc.

Electrical Specification

| TDK Identification | Inductance [μ H] Tol. (%) | Test Freq. [MHz] | DC Resistance [Ohm] | | Rated DC Current [A] | | |
|--------------------|--------------------------------------|------------------------|------------------------|--------|----------------------|--------|----------------|
| | | | (Max.) | (Typ.) | Idc1 (Max.) | (Typ.) | Idc2 (Typ.) |
| VLS3010T- 1R0N1R9 | 1.0+/- 30% | 1.0 | 0.072 | 0.060 | 1.7 | 1.9 | 2.1 |
| VLS3010T- 1R5N1R6 | 1.5+/- 30% | 1.0 | 0.085 | 0.071 | 1.4 | 1.5 | 1.9 |
| VLS3010T- 2R2M1R3 | 2.2+/- 20% | 1.0 | 0.116 | 0.097 | 1.2 | 1.4 | 1.7 |
| VLS3010T- 3R3M1R1 | 3.3+/- 20% | 1.0 | 0.156 | 0.13 | 1.1 | 1.3 | 1.5 |
| VLS3010T- 4R7MR80 | 4.7+/- 20% | 1.0 | 0.204 | 0.17 | 0.8 | 0.9 | 1.3 |
| VLS3010T- 6R8MR75 | 6.8+/- 20% | 1.0 | 0.312 | 0.26 | 0.75 | 0.85 | 1.0 |
| VLS3010T- 100MR65 | 10+/- 20% | 1.0 | 0.468 | 0.39 | 0.65 | 0.70 | 0.8 |
| VLS3010T- 150MR55 | 15+/- 20% | 1.0 | 0.612 | 0.51 | 0.55 | 0.65 | 0.7 |
| VLS3010T- 220MR46 | 22+/- 20% | 1.0 | 0.90 | 0.75 | 0.46 | 0.52 | 0.6 |

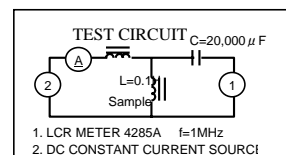
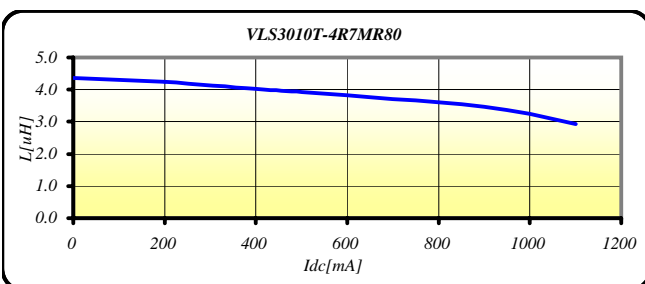
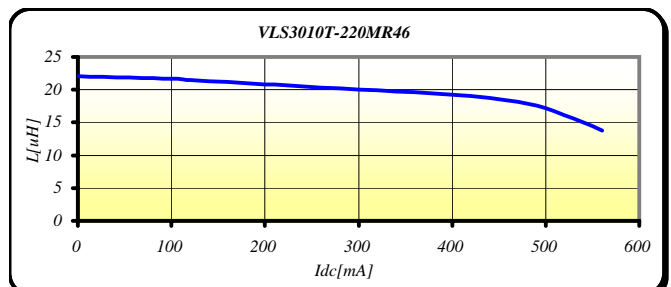
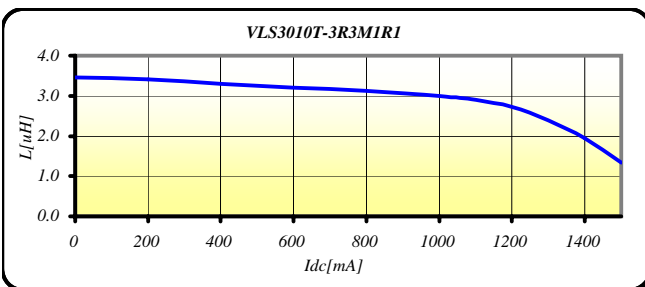
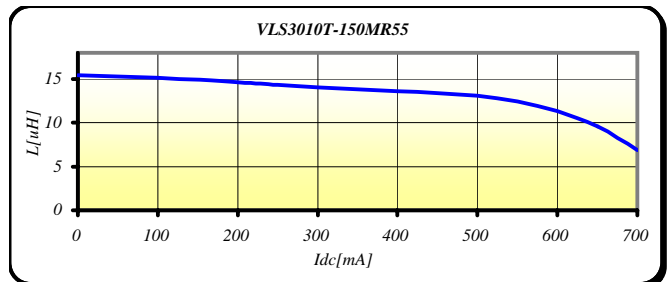
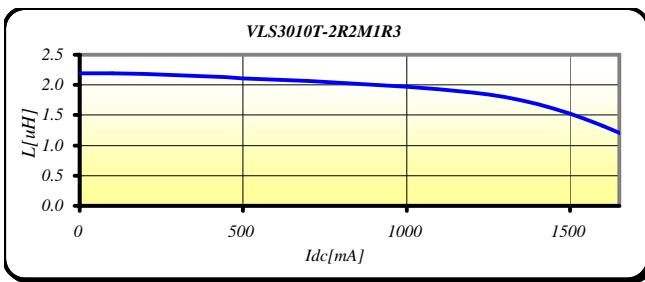
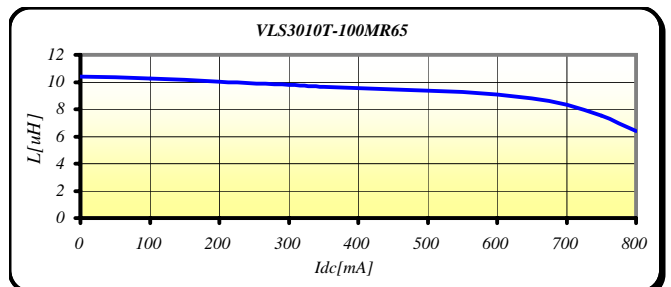
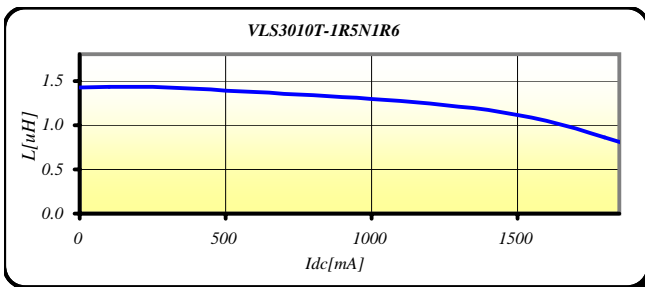
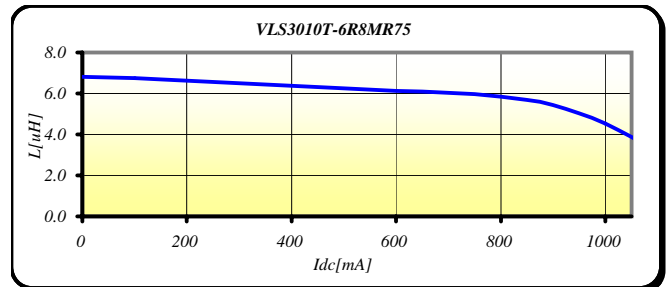
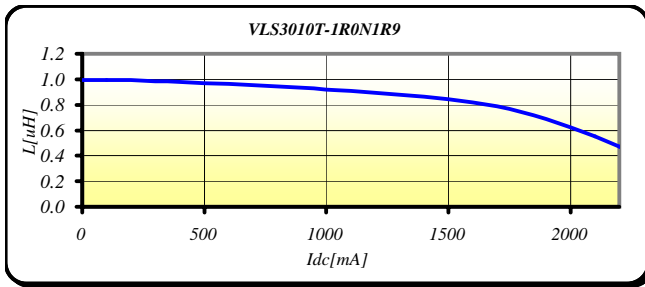
Note) *Idc 1* : Depend on the Inductance Saturation. (-30% Reduction from Nominal L Value)

Idc 2 : Depend on the Self Temperature Rise (40deg.C Typ.)

Operating Temperature Range : -40deg. C ~ +105deg.C (including Self Temp. Rise)

INDUCTANCE VS. DC SUPERPOSITION CHARACTERISTICS

◆ Inductance vs D.C. Current Comparison



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