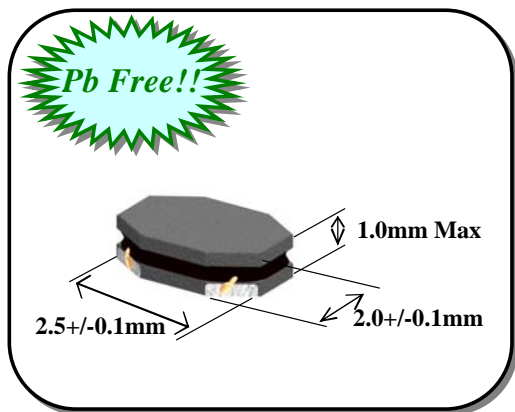


**Component Image  
& Dimensions**



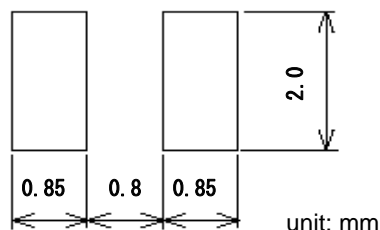
**Features :**

- a) Miniature Size :  
**Mount Area : 2.5mm x 2.0mm**  
**Low Profile : 1.0mm Max. Height**
- b) Generic use for portable DC/DC Converter.
- c) High Magnetic Shield Construction should actualize High Resolution for EMC Protection.
- d) Automatic Mounting in Tape&Reel Package.

**Recommended Land Pattern**

**Applications :**

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



**Electrical Specification**

TDK Identification	Inductance [μH] Tol. (%)	Test Freq. [MHz]	DC Resistance [Ohm]		Rated DC Current [A]		
			(Max.)	(Typ.)	Idc1 (Max.)	(Typ.)	Idc2 (Typ.)
VLS252010MNT-R47N	0.47+/- 30%	1.0	0.040	0.033	3.15	3.50	2.90
VLS252010MNT-R68N	0.68+/- 30%	1.0	0.056	0.046	2.70	3.00	2.50
VLS252010MNT-1R0M	1.0+/- 20%	1.0	0.065	0.054	2.30	2.55	2.30
VLS252010MNT-1R5M	1.5+/- 20%	1.0	0.111	0.093	1.95	2.15	1.70
VLS252010MNT-2R2M	2.2+/- 20%	1.0	0.144	0.120	1.45	1.60	1.55
VLS252010MNT-3R3M	3.3+/- 20%	1.0	0.229	0.191	1.30	1.40	1.15
VLS252010MNT-4R7M	4.7+/- 20%	1.0	0.302	0.252	1.00	1.10	1.00
VLS252010MNT-6R8M	6.8+/- 20%	1.0	0.457	0.381	0.79	0.88	0.79
VLS252010MNT-100M	10+/- 20%	1.0	0.588	0.490	0.64	0.72	0.69

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

