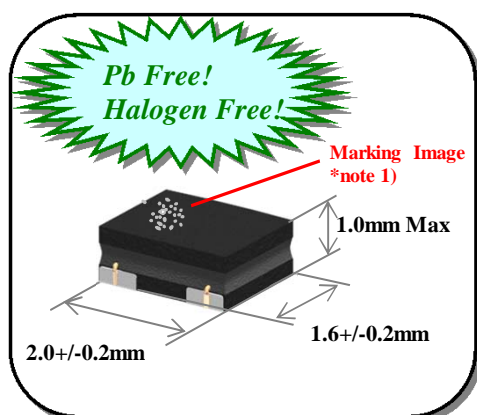


**Component Image
& Dimensions**



*note 1) This figure does not represent the exact appearance and dimensions.

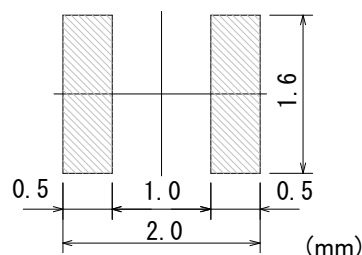
Applications :

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

Features :

- a) Miniature Size :
Mount Area : 2.0mm x 1.6mm
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



Electrical Specification

TDK Identification	Inductance [μ H]	Test Freq. [MHz]	DC Resistance [Ohm]		Rated DC Current [A]			
			Tol. (%)	DC Resistance [Max.]	DC Resistance [Typ.]	Idc1 [Max.]	Idc1 [Typ.]	Idc2 [Max.]
VLS201610HBX-R24M-GX	0.24 +/- 20%	1.0	0.030	0.023	4.81	5.15	3.74	4.40
VLS201610HBX-R33M-GX	0.33 +/- 20%	1.0	0.039	0.031	4.42	4.79	2.85	3.35
VLS201610HBX-R47M-GX	0.47 +/- 20%	1.0	0.041	0.034	3.50	4.00	3.18	3.53
VLS201610HBX-R68M-GX	0.68 +/- 20%	1.0	0.053	0.044	3.10	3.53	2.47	2.90
VLS201610HBX-1R0M-GX	1.0 +/- 20%	1.0	0.072	0.060	2.50	2.90	2.13	2.50
VLS201610HBX-1R5M-GX	1.5 +/- 20%	1.0	0.116	0.097	2.00	2.20	1.63	1.92
VLS201610HBX-2R2M-GX	2.2 +/- 20%	1.0	0.160	0.142	1.70	1.90	1.45	1.70
VLS201610HBX-3R3M-GX	3.3 +/- 20%	1.0	0.252	0.210	1.20	1.35	1.02	1.20
VLS201610HBX-4R7M-GX	4.7 +/- 20%	1.0	0.370	0.308	1.10	1.20	0.81	0.95
VLS201610HBX-6R8M-GX	6.8 +/- 20%	1.0	0.558	0.465	0.88	0.98	0.70	0.82
VLS201610HBX-100M-GX	10.0 +/- 20%	1.0	0.768	0.640	0.65	0.75	0.61	0.72

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

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

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

※The products must be used withstanding voltage between terminals in 20V or less.

INDUCTANCE VS. DC SUPERPOSITION CHARACTERISTICS

Inductance vs D.C. Current Comparison

