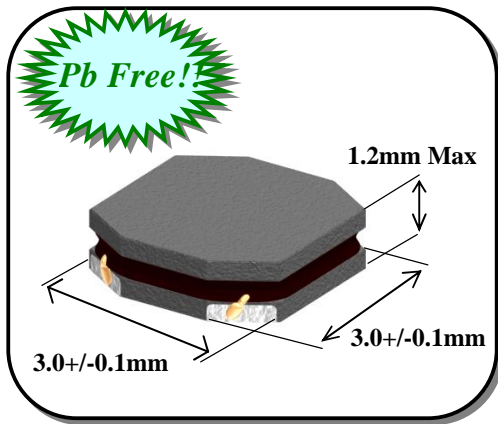


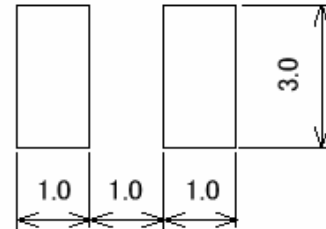
**Component Image  
& Dimensions**



**Features :**

- a) Miniature Size :  
 Mount Area : 3.0mm x 3.0mm  
 Low Profile : 1.2mm 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**



unit: mm

**Electrical Specification**

TDK Identification	Inductance [ $\mu$ H] Tol. (%)	Test Freq. [MHz]	DC Resistance [Ohm]		Rated DC Current [A]		
			(Max.)	(Typ.)	Idc1 (Max.)	(Typ.)	Idc2 (Typ.)
VLS3012T- 1R0N2R2	1.0+/- 30%	1.0	0.070	0.058	2.2	2.5	2.2
VLS3012T- 1R5N1R7	1.5+/- 30%	1.0	0.082	0.068	1.7	1.9	2.0
VLS3012T- 2R2M1R5	2.2+/- 20%	1.0	0.098	0.082	1.5	1.7	1.9
VLS3012T- 3R3M1R3	3.3+/- 20%	1.0	0.120	0.100	1.3	1.5	1.7
VLS3012T- 4R7M1R0	4.7+/- 20%	1.0	0.156	0.130	1.0	1.2	1.4
VLS3012T- 6R8MR90	6.8+/- 20%	1.0	0.228	0.190	0.9	1.0	1.2
VLS3012T- 100MR72	10+/- 20%	1.0	0.336	0.280	0.72	0.8	1.0
VLS3012T- 150MR58	15+/- 20%	1.0	0.528	0.440	0.58	0.65	0.81
VLS3012T- 220MR49	22+/- 20%	1.0	0.756	0.630	0.49	0.55	0.67
VLS3012T- 330MR40	33+/- 20%	1.0	1.248	1.040	0.40	0.45	0.52
VLS3012T- 470MR34	47+/- 20%	1.0	1.512	1.260	0.34	0.38	0.48

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

