THE DATASHEET OF

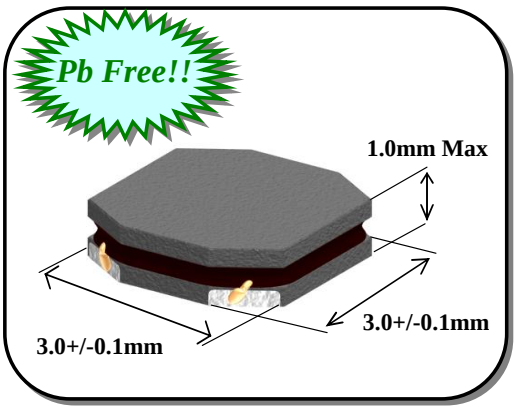
VLS3010T-150MR55

New products!!

VLS3010 TYPE

SMD Power Inductor

Component Image & Dimensions



Features :

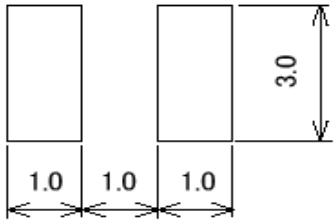
a) Miniature Size :
Mount Area : 3.0mm x 3.0mm
Low Profile : 1.0mm Max. Height

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



unit: mm

Applications :

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

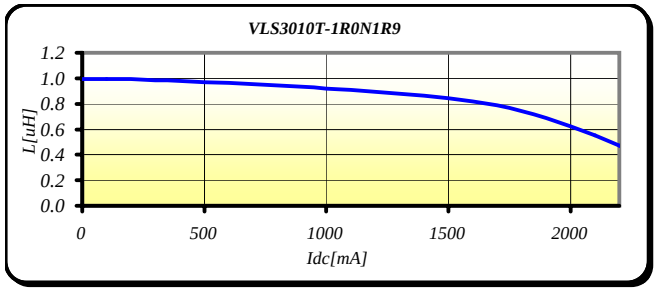
Electrical Specification

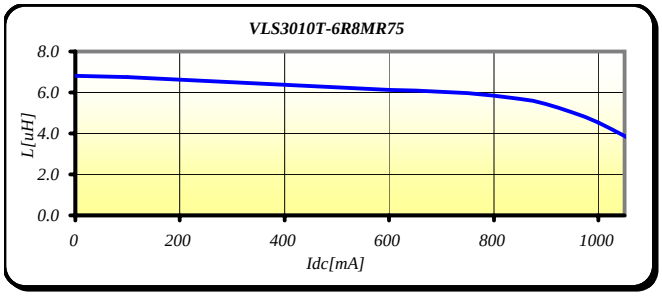
TDK Identification		Inductance [µH] Tol. (%)	Test Freq. [MHz]	DC Resistance [Ohm] (Max.)	(Typ.)	Rated DC Current [A] Idc1 (Max.)	(Typ.)	Idc2 (Typ.)
VLS3010T-	1R0N1R9	1.0+/ - 30%	1.0	0.072	0.060	1.7	1.9	2.1
VLS3010T-	1R5N1R6	1.5+/ - 30%	1.0	0.085	0.071	1.4	1.5	1.9
VLS3010T-	2R2M1R3	2.2+/ - 20%	1.0	0.116	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

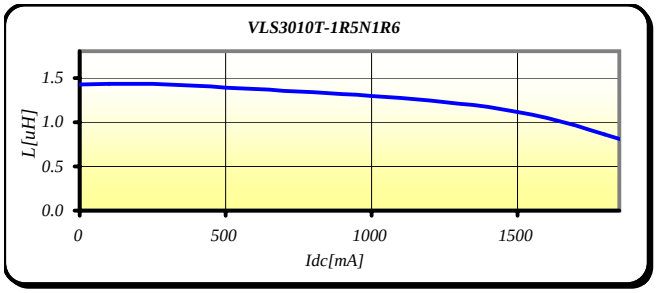
Note) *Idc 1 : Depend on the Inductance Saturation. (-30% Reduction from Nominal L Value)*
Idc 2 : Depend on the Self Temperature Rise (40deg.C Typ.)
Operating Temperature Range : -40deg. C ~ +105deg.C (including Self Temp. Rise)

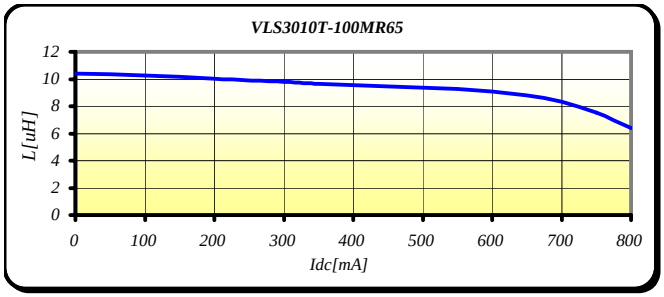
INDUCTANCE VS. DC SUPERPOSITION CHARACTERISTICS

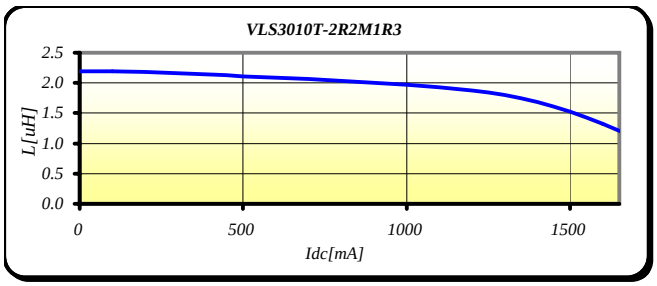
◆Inductance vs D.C. Current Comparison

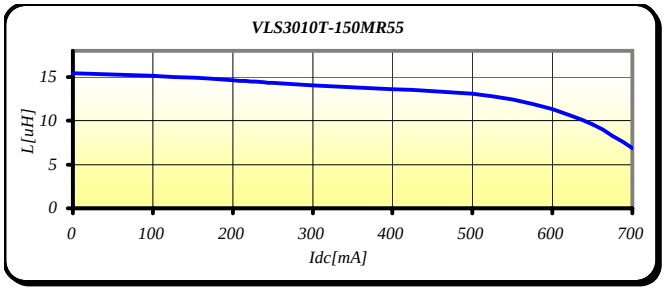


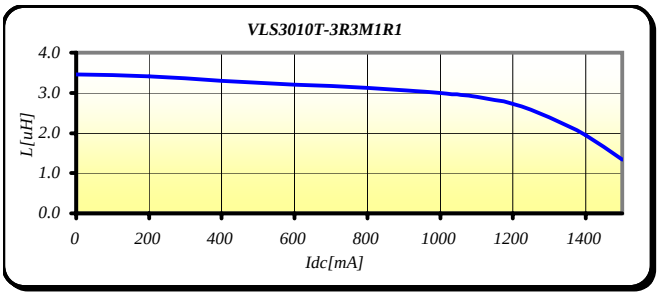


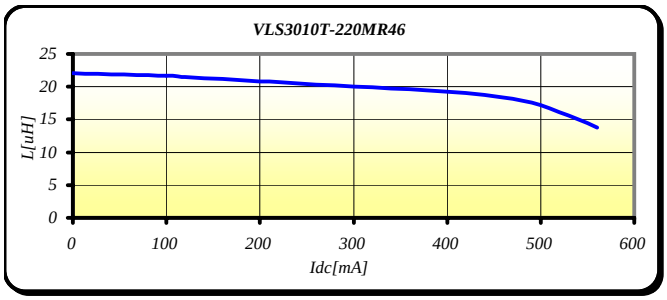


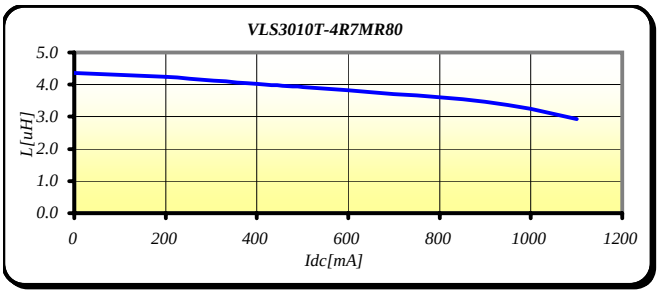


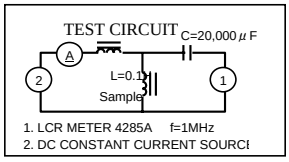












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