SMD Unshielded Power Inductors -WDR Series

INCMCOIL
欣腾辉电子
XINTENGHUI ELECTRONICS

WDR Series

Description:

·RoHS,Halogen Free and REACH Compliance

· Unshielded power inductor

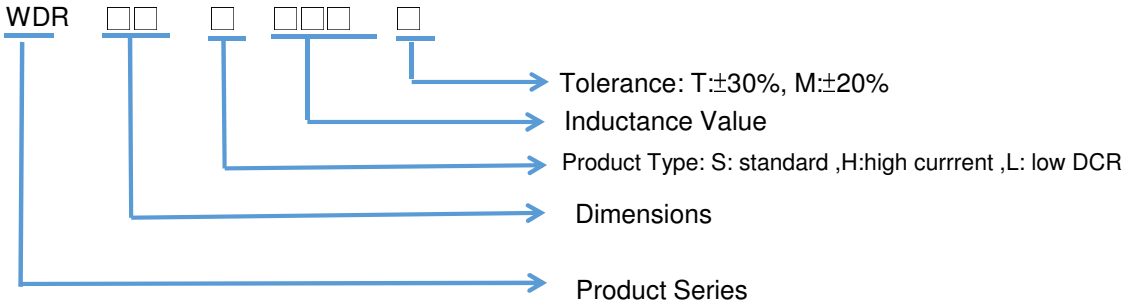
·Various package size and wide inductance range

Applications:

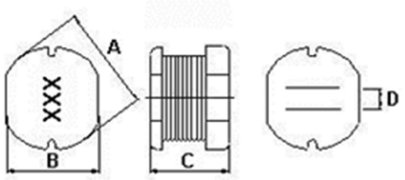
·Graphic cards.

·DC/DC converters

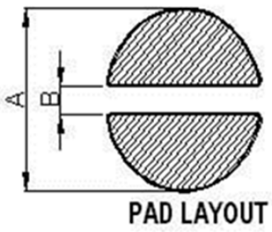
Product Identification



Dimensions-mm



Recommended Pad Layout



Dimensions-mm

TYPE	A	B	C	D
WDR52	5.8±0.3	5.2±0.3	2.5±0.3	2.0

Dimensions-mm

TYPE	A	B
WDR52	6.8	2.0

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Electrical Characteristics

Part No.	Inductance (uH)	Test Freq.	RDC (Ω)Max.	Isat (A)	Tolerance (±%)
WDR52S1R0M	1.0	7.96 MHz,1 V	0.03	4.5	20
WDR52S1R4M	1.4	7.96 MHz,1 V	0.04	4.0	20
WDR52S1R8M	1.8	7.96 MHz,1 V	0.05	3.3	20
WDR52S2R2M	2.2	7.96 MHz,1 V	0.06	2.94	20
WDR52S2R7M	2.7	7.96 MHz,1 V	0.07	2.5	20
WDR52S3R3M	3.3	7.96 MHz,1 V	0.08	2.35	20
WDR52S3R9M	3.9	7.96 MHz,1 V	0.09	2.2	20
WDR52S4R7M	4.7	7.96 MHz,1 V	0.14	2.0	10,20
WDR52S5R6M	5.6	7.96 MHz,1 V	0.15	1.8	20
WDR52S6R8M	6.8	7.96 MHz,1 V	0.16	1.7	20
WDR52S8R2M	8.2	7.96 MHz,1 V	0.17	1.4	20
WDR52S100M	10	2.52 MHz,1 V	0.18	1.2	10,20
WDR52S120M	12	2.52 MHz,1 V	0.2	1.18	20
WDR52S150M	15	2.52 MHz,1 V	0.22	1.15	20
WDR52S180M	18	2.52 MHz,1 V	0.25	1.1	20
WDR52S220M	22	2.52 MHz,1 V	0.35	1.0	10,20
WDR52S270M	27	2.52 MHz,1 V	0.45	0.86	20
WDR52S330M	33	2.52 MHz,1 V	0.56	0.76	10,20
WDR52S390M	39	2.52 MHz,1 V	0.69	0.75	10,20
WDR52S470M	47	2.52 MHz,1 V	0.72	0.73	10,20
WDR52S560M	56	2.52 MHz,1 V	0.84	0.55	10,20
WDR52S680M	68	2.52 MHz,1 V	0.9	0.52	10,20
WDR52S820M	82	2.52 MHz,1 V	1.2	0.5	10,20
WDR52S101M	100	1 kHz,1 V	1.3	0.4	10,20
WDR52S121M	120	1 kHz,1 V	1.38	0.36	10,20
WDR52S151M	150	1 kHz,1 V	1.81	0.3	10,20
WDR52S181M	180	1 kHz,1 V	1.95	0.26	10,20
WDR52S221M	220	1 kHz,1 V	3.0	0.25	10,20
WDR52S271M	270	1 kHz,1 V	3.2	0.21	10,20
WDR52S331M	330	1 kHz,1 V	3.82	0.18	10,20
WDR52S391M	390	1 kHz,1 V	4.68	0.16	10,20
WDR52S471M	470	1 kHz,1 V	5.1	0.15	10,20
WDR52S561M	560	1 kHz,1 V	8.5	0.14	10,20
WDR52S681M	680	1 kHz,1 V	10	0.13	10,20
WDR52S821M	820	1 kHz,1 V	12	0.07	10,20
WDR52S102M	1000	1 kHz,1 V	18	0.05	10,20

Notes:

1.tolerance K=±10% / M=±20%/ T=±30%

2.All test data is referenced to 25℃ ambient.

3.Operating temperature range －４０℃ ~ １０５℃(Including self - temperature rise)

4.Isat for Inductance drop 10% from its value without current.

5. Measure Equipment：

L：Agilent/ E4980 or HP4284A (under 1MHz), HP4285A (over 1MHz)

RDC：Chroma 16502

Isat：HP4284+42841A or WK3260B+WK3265B

6.Test Condition:

Temperature:26±3℃

Humidity:<70% RH

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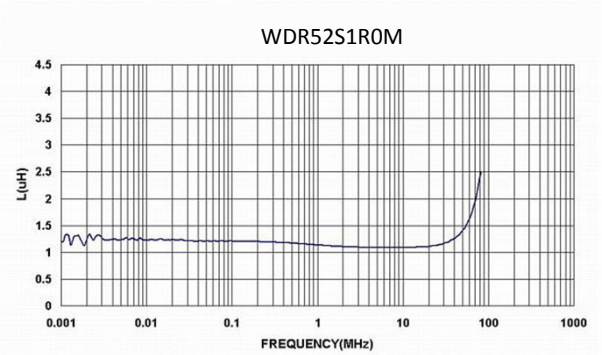
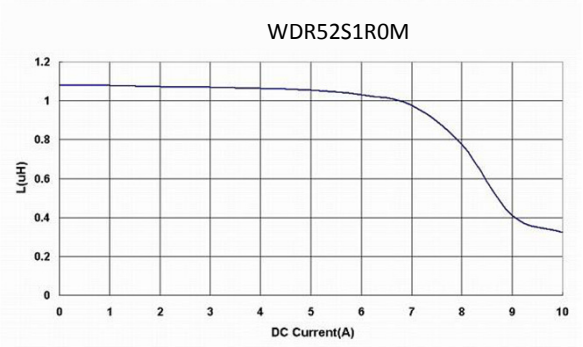
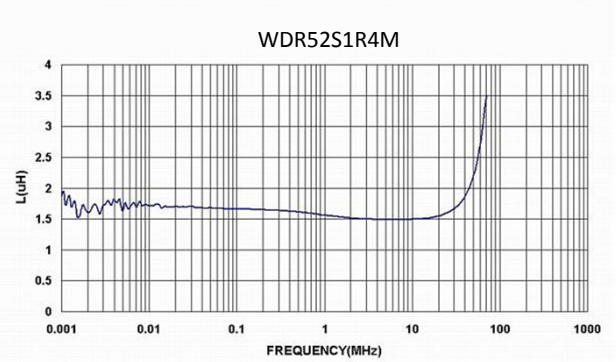
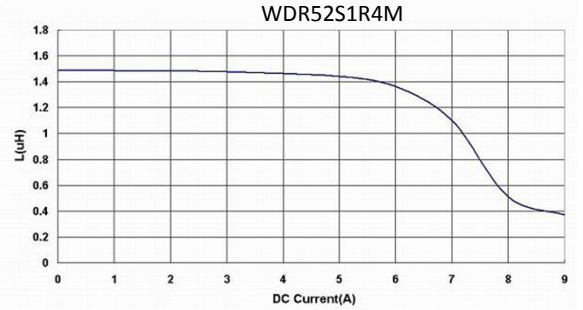
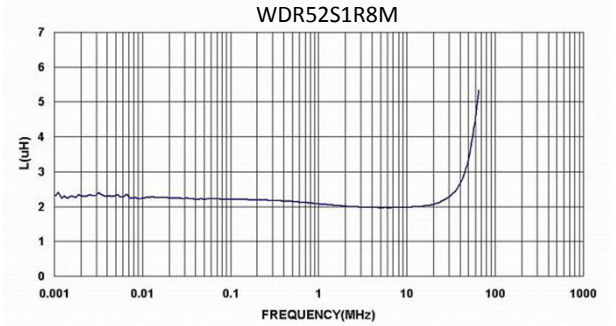
Curve:

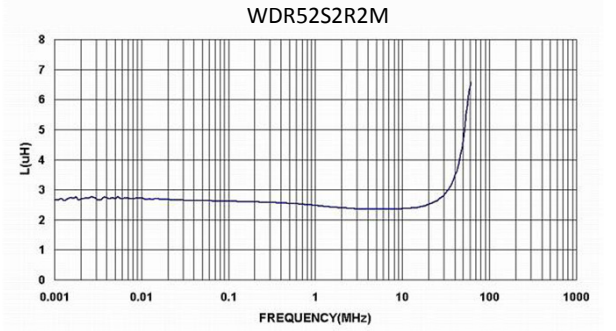












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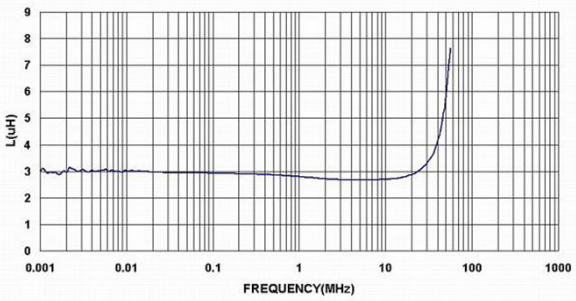

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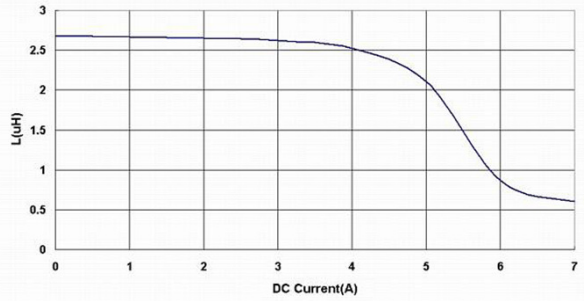

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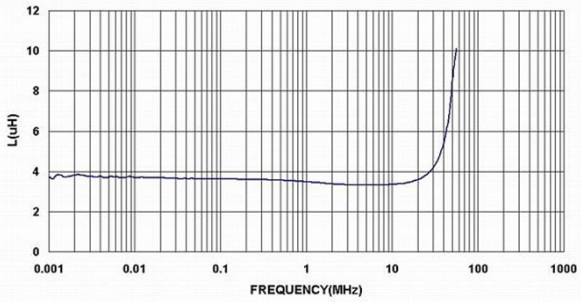

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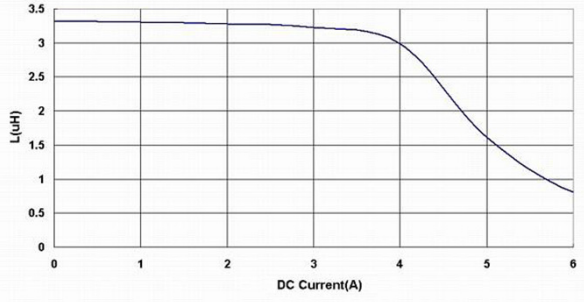

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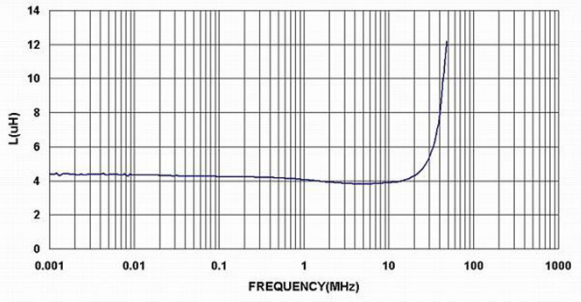

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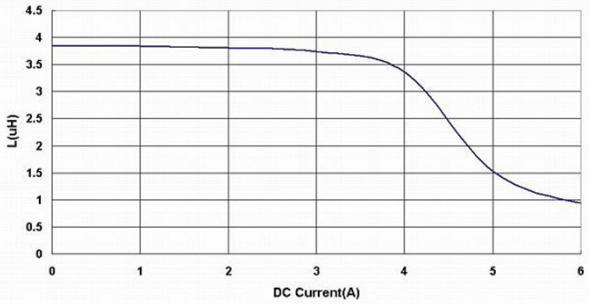

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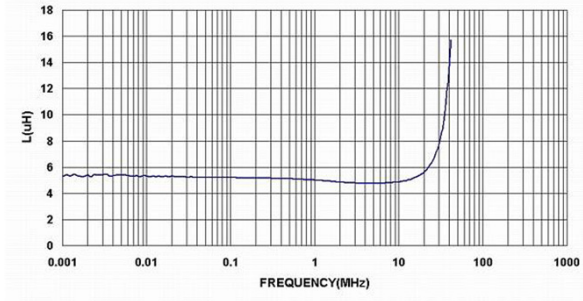

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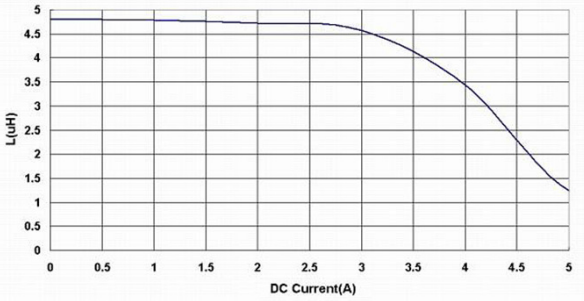

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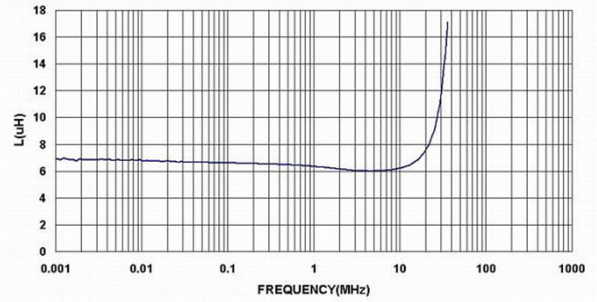

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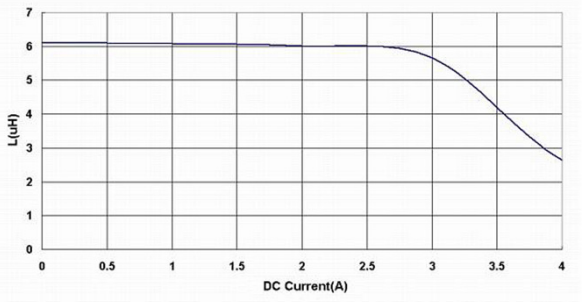

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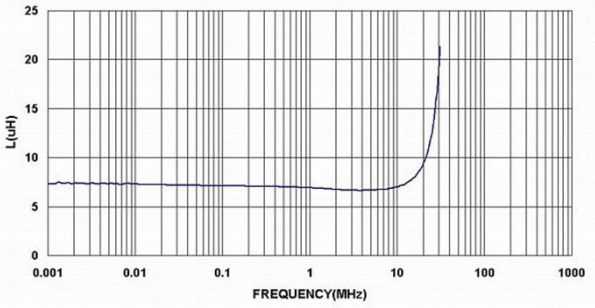

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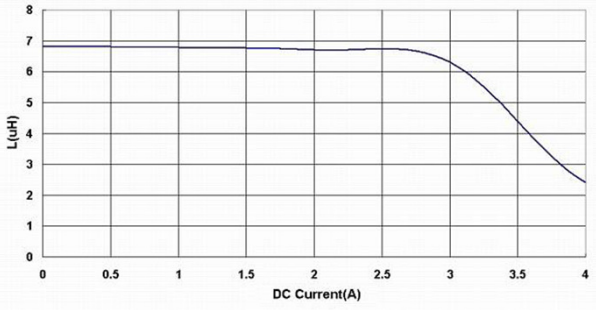

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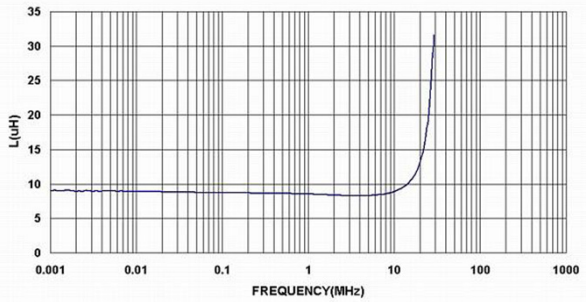

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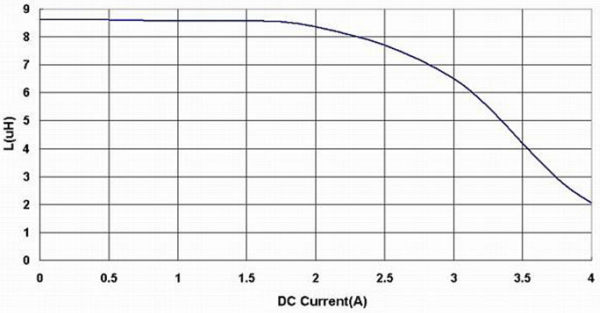

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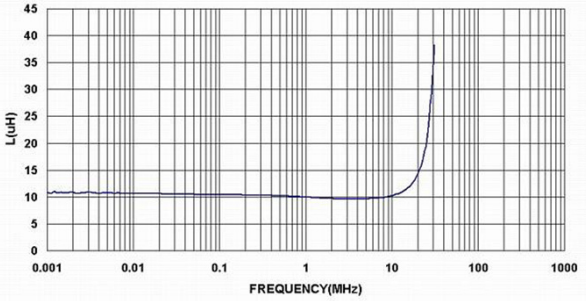

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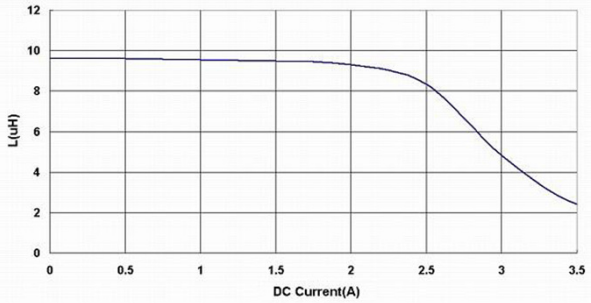

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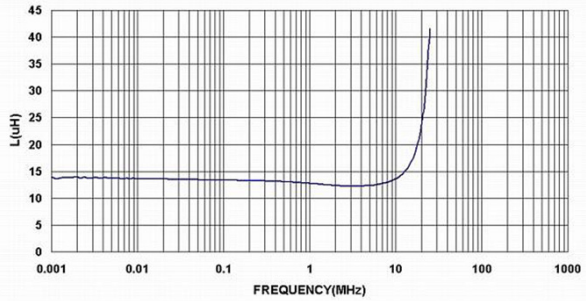

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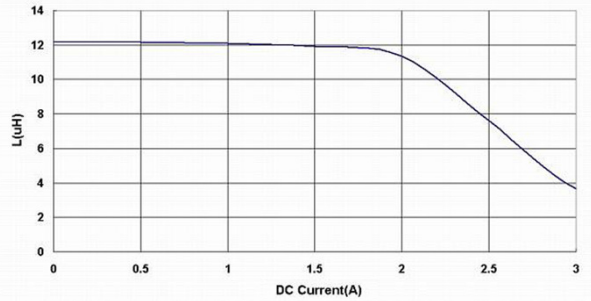

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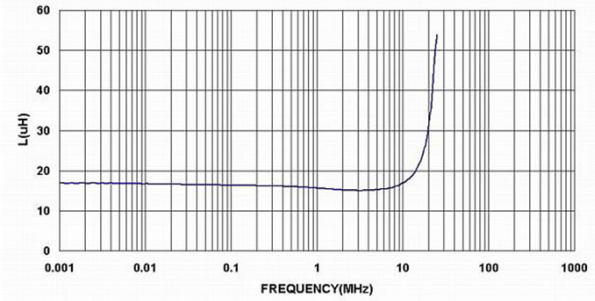

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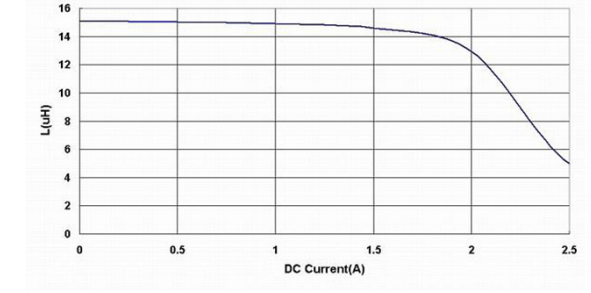

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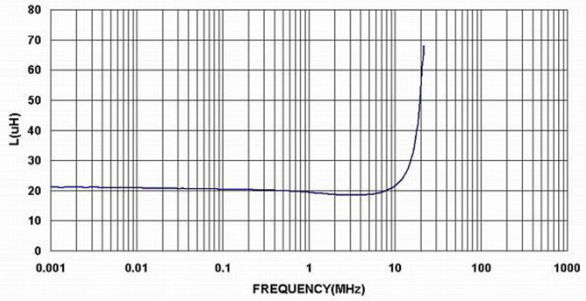

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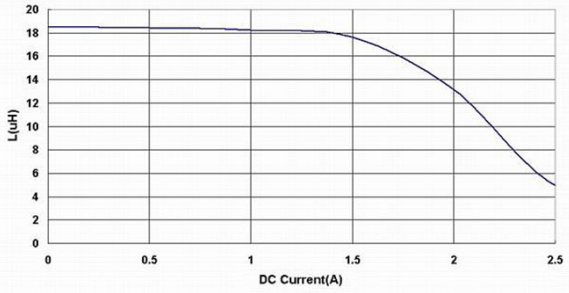

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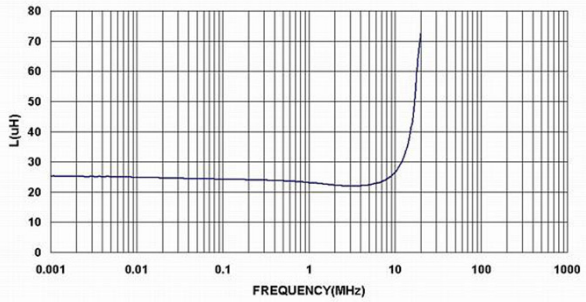

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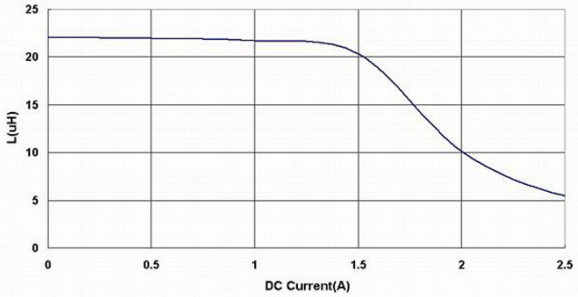

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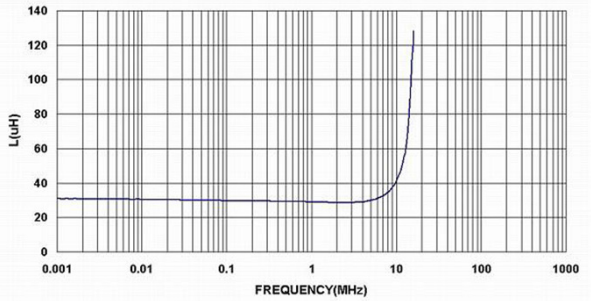

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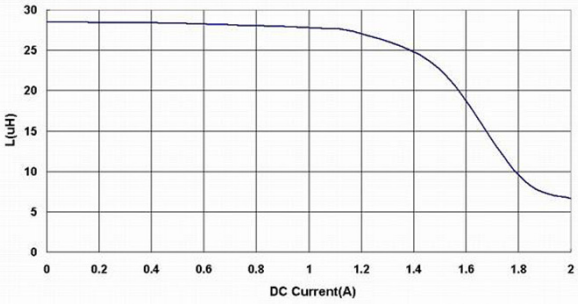

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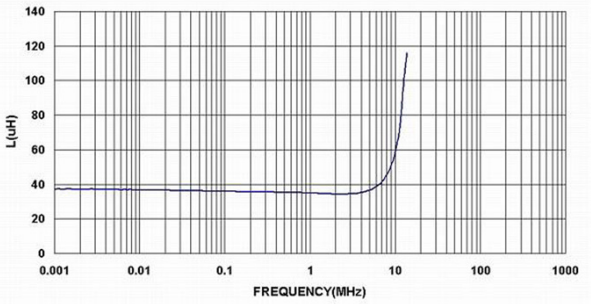

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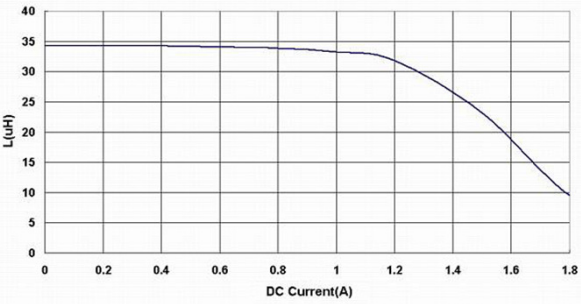

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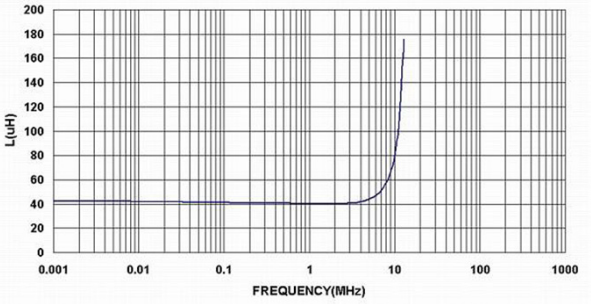

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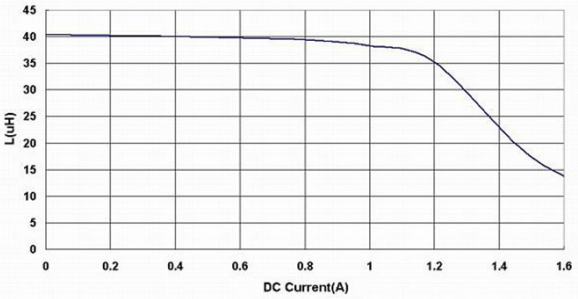

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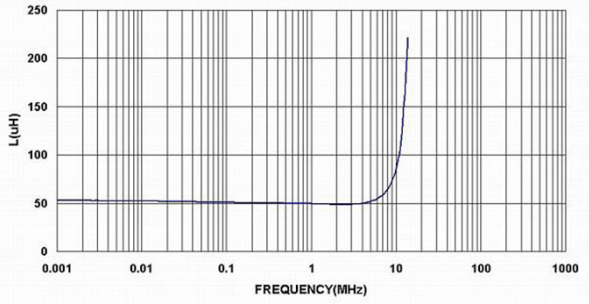

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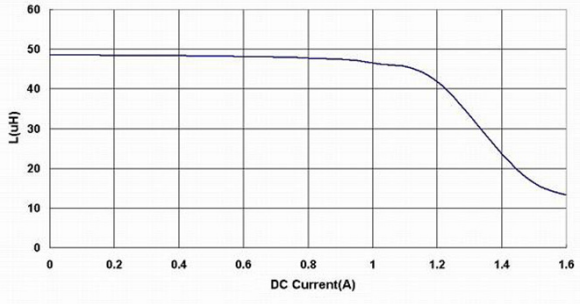

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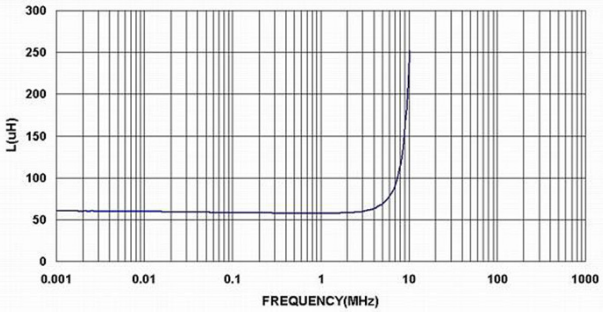

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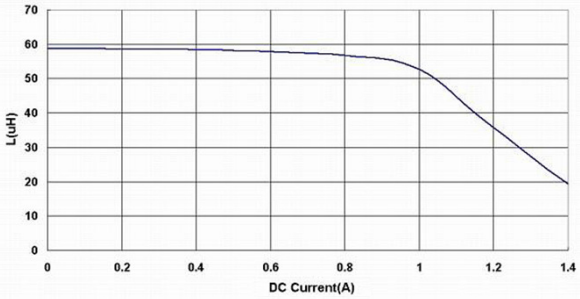

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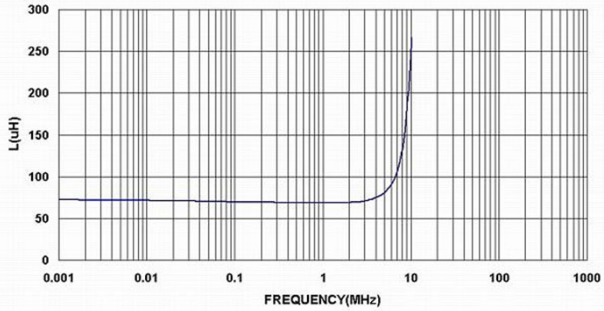
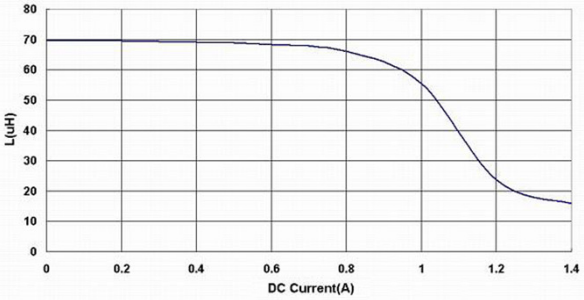


WDR52S680M



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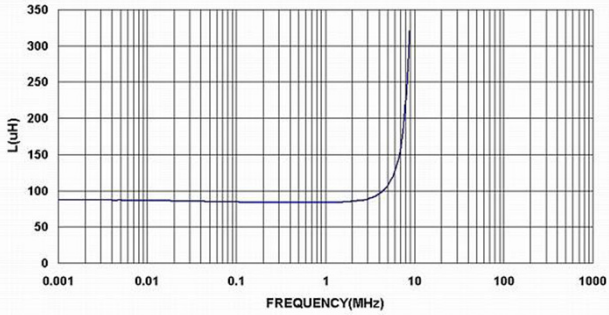

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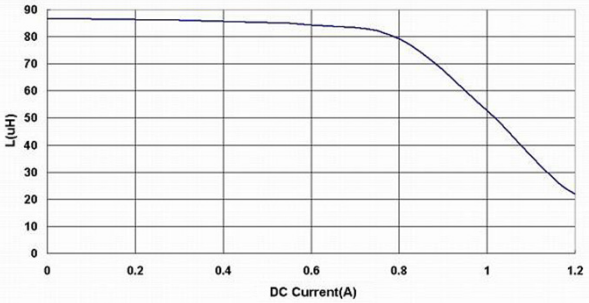

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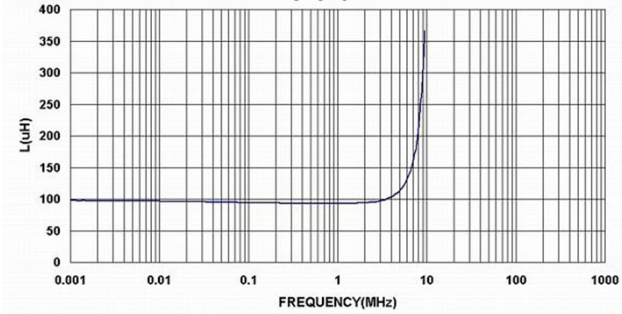

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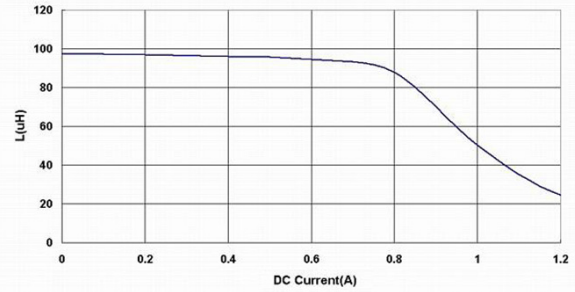

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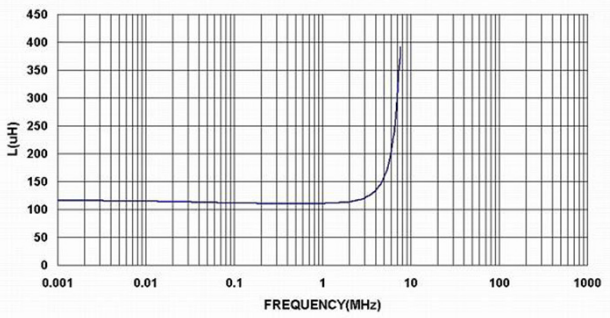

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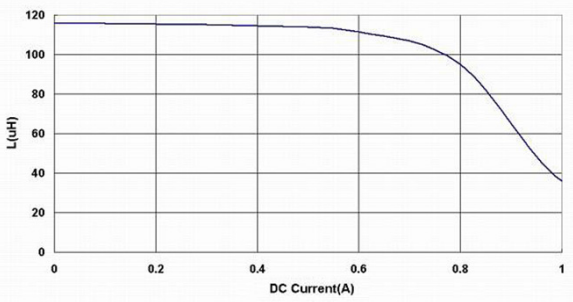

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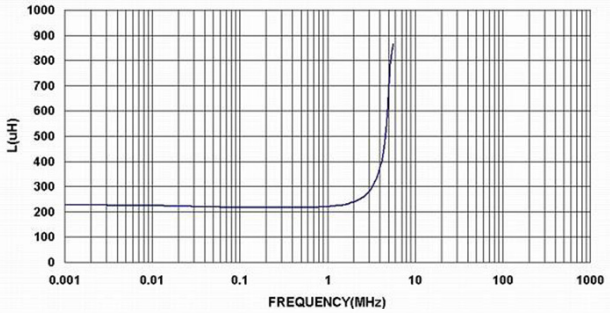

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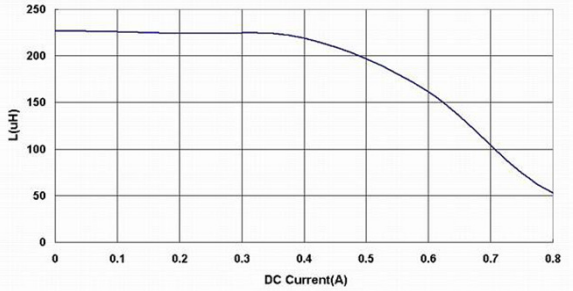

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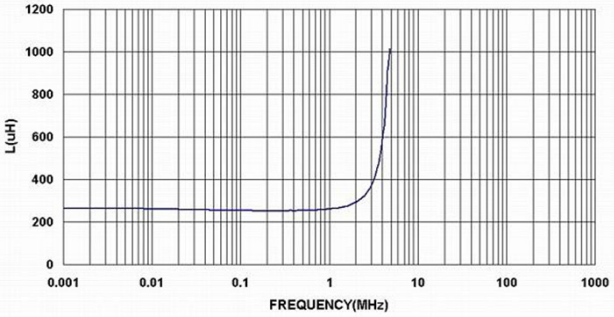

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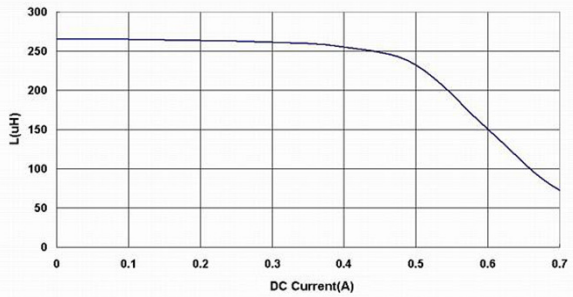

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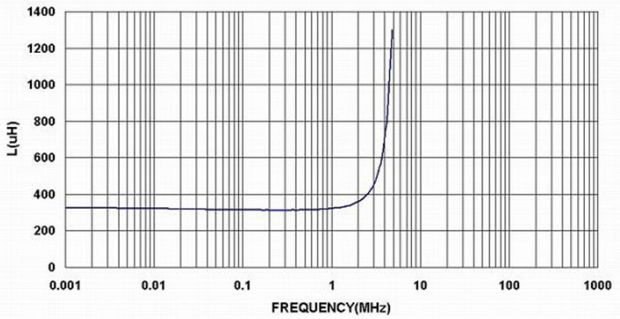

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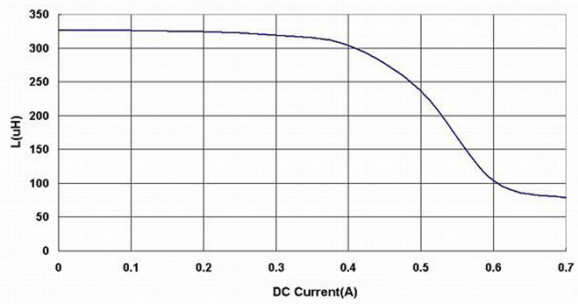

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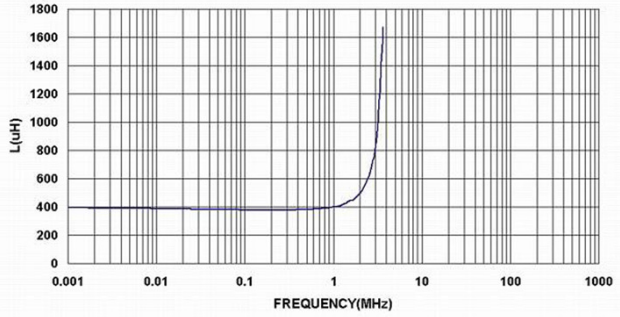

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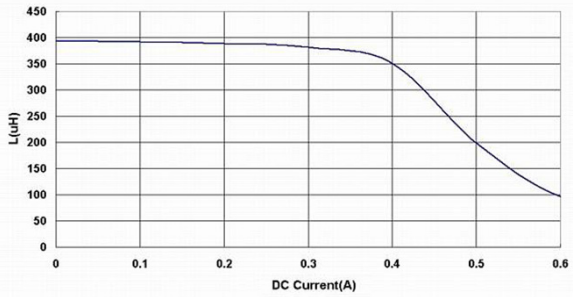

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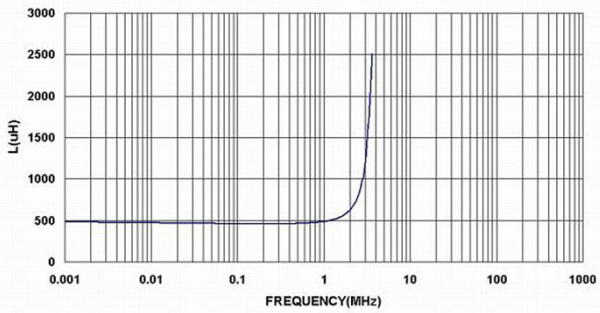

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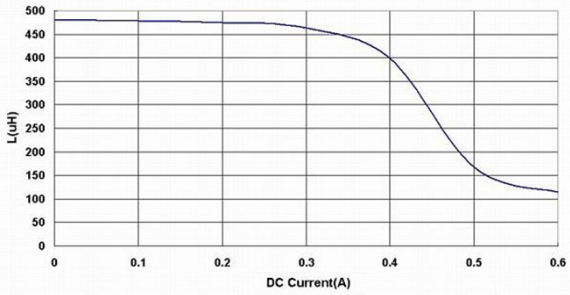

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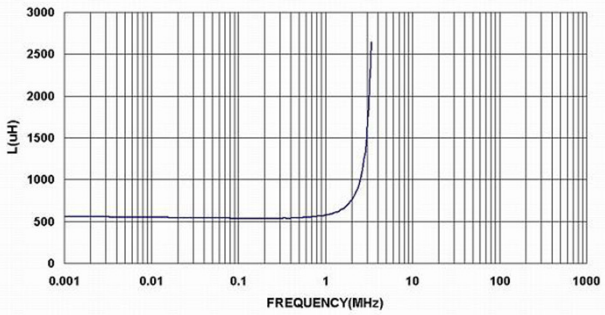

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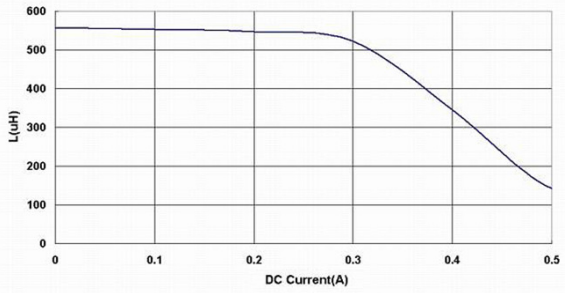

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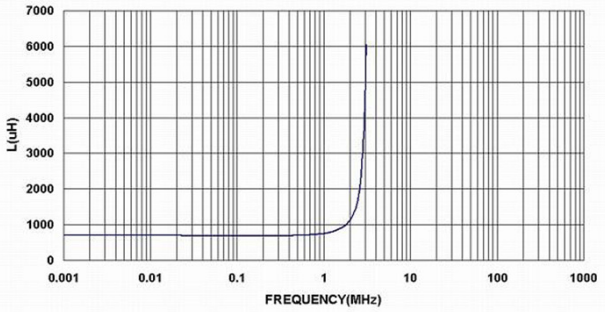

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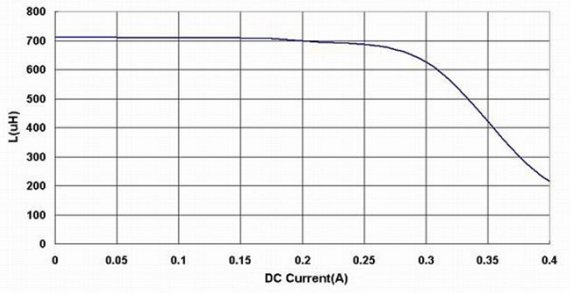

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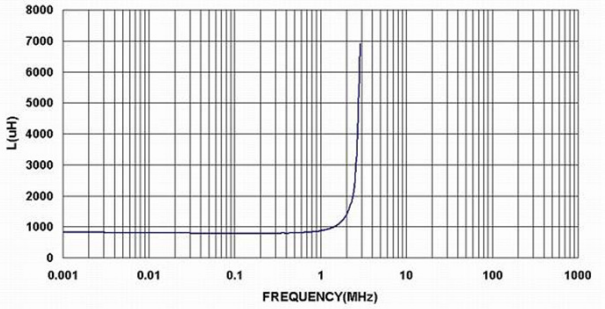

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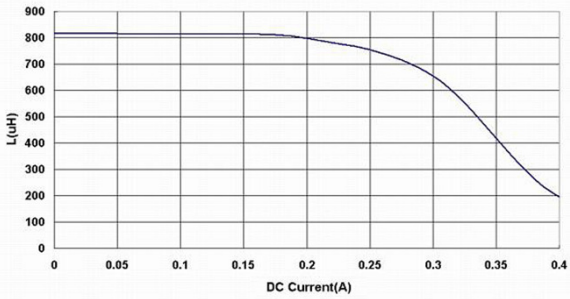

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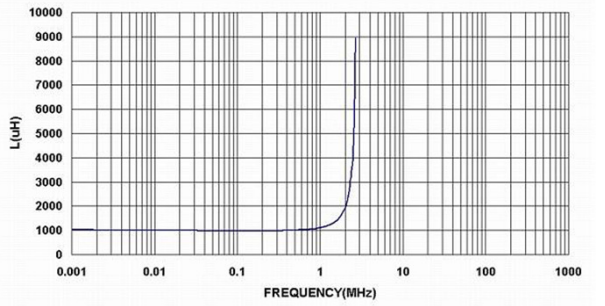
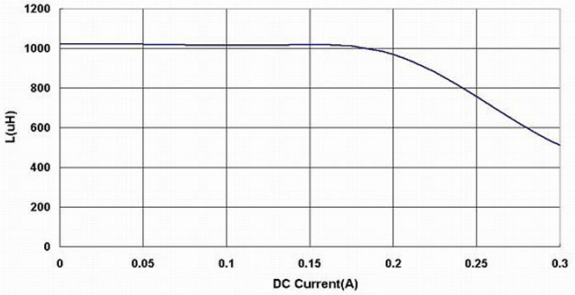
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