

SMD Unshielded Power Inductors -WDR Series



欣腾辉电子
XINTENGHUI ELECTRONICS

WDR Series



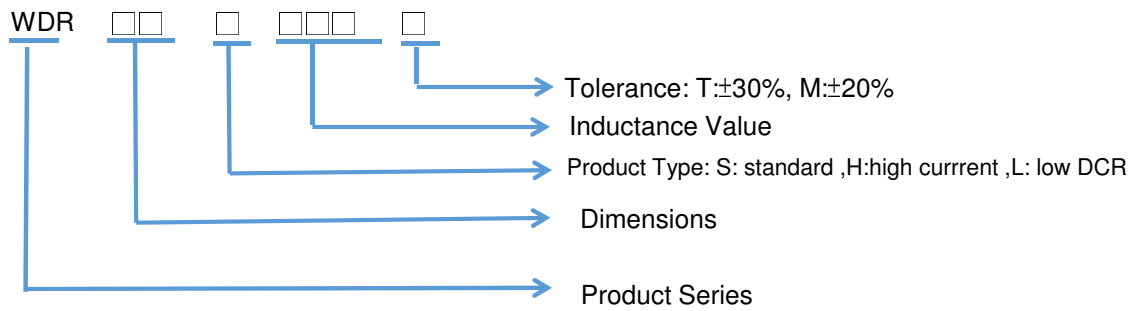
Description:

- RoHS, Halogen Free and REACH Compliance
- Unshielded power inductor
- Various package size and wide inductance range

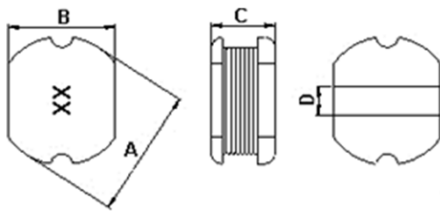
Applications:

- Graphic cards.
- DC/DC converters

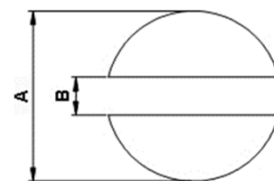
Product Identification



Dimensions-mm



Recommended Pad Layout



Dimensions-mm

TYPE	A	B	C	D
WDR32	3.3±0.3	3.0±0.3	2.1±0.3	1.0

Dimensions-mm

TYPE	A	B
WDR32	4.5	1.0

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Electrical Characteristics

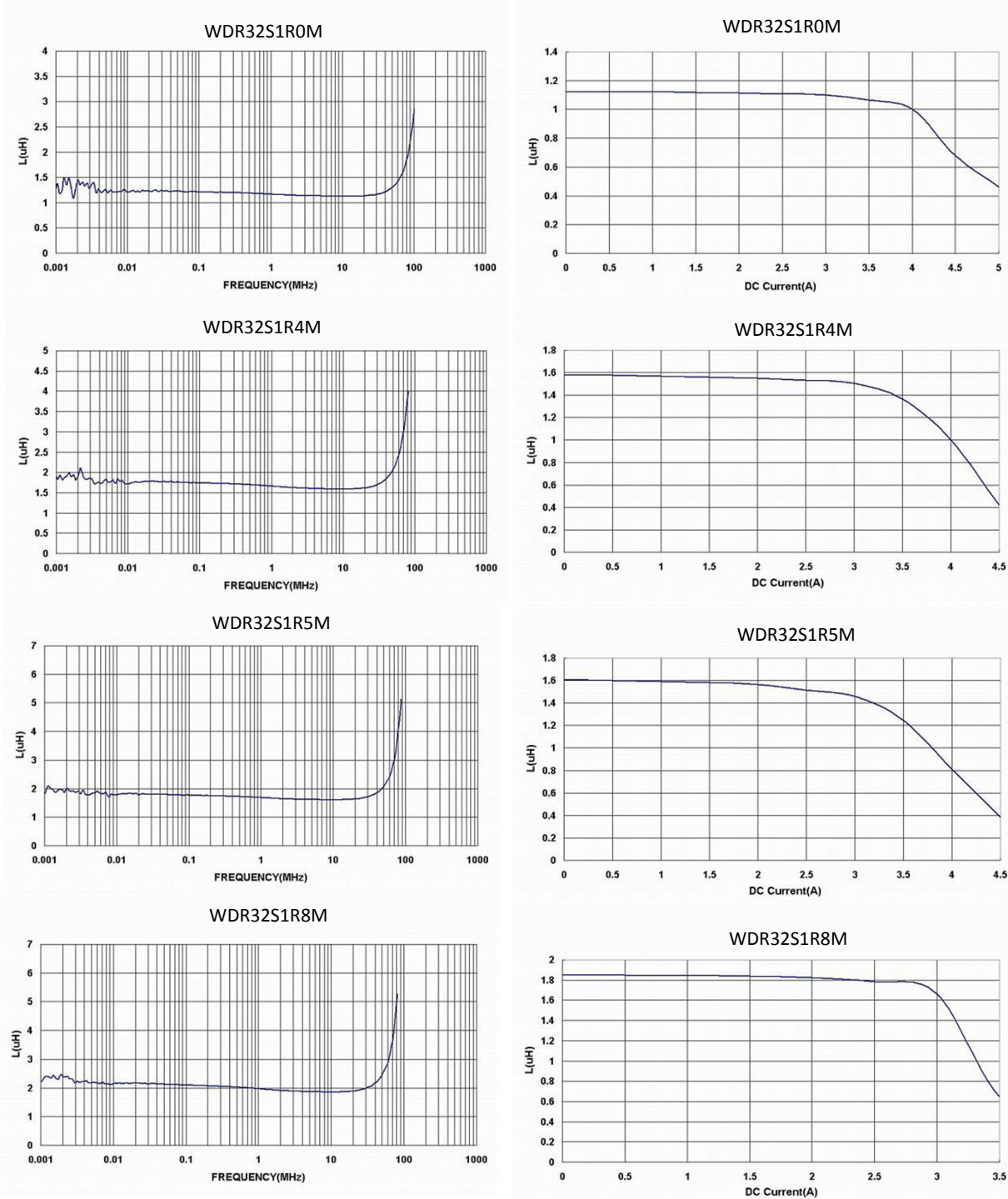
Part No.	Inductance (μ H)	Test Freq.	RDC(Ω)	Isat (A)	Tolerance (\pm %)
WDR32SR82T	0.82	7.96 MHz,1 V	0.06	2.2	30
WDR32S1R0M	1.0	7.96 MHz,1 V	0.07	2.08	20
WDR32S1R2M	1.2	7.96 MHz,1 V	0.08	2.0	20
WDR32S1R4M	1.4	7.96 MHz,1 V	0.09	1.86	20
WDR32S1R5M	1.5	7.96 MHz,1 V	0.11	1.8	20
WDR32S1R8M	1.8	7.96 MHz,1 V	0.11	1.8	20
WDR32S2R2M	2.2	7.96 MHz,1 V	0.13	1.39	20
WDR32S2R7M	2.7	7.96 MHz,1 V	0.14	1.32	20
WDR32S3R3M	3.3	7.96 MHz,1 V	0.17	1.25	10,20
WDR32S3R9M	3.9	7.96 MHz,1 V	0.19	1.2	20
WDR32S4R7M	4.7	7.96 MHz,1 V	0.21	1.13	20
WDR32S5R6M	5.6	7.96 MHz,1 V	0.22	0.91	20
WDR32S6R8M	6.8	7.96 MHz,1 V	0.25	0.85	20
WDR32S7R0M	7.0	7.96 MHz,1 V	0.28	0.82	20
WDR32S8R2M	8.2	7.96 MHz,1 V	0.28	0.82	20
WDR32S100M	10	2.52 MHz,1 V	0.32	0.74	10,20
WDR32S120M	12	2.52 MHz,1 V	0.35	0.64	20
WDR32S150M	15	2.52 MHz,1 V	0.4	0.6	20
WDR32S180M	18	2.52 MHz,1 V	0.48	0.54	20
WDR32S220M	22	2.52 MHz,1 V	0.58	0.5	10,20
WDR32S270M	27	2.52 MHz,1 V	0.65	0.43	20
WDR32S330M	33	2.52 MHz,1 V	0.8	0.4	20
WDR32S390M	39	2.52 MHz,1 V	0.9	0.37	20
WDR32S470M	47	2.52 MHz,1 V	1.19	0.36	20
WDR32S500M	50	2.52 MHz,1 V	1.22	0.33	20
WDR32S560M	56	2.52 MHz,1 V	1.27	0.31	20
WDR32S680M	68	2.52 MHz,1 V	1.73	0.3	10,20
WDR32S750M	75	2.52 MHz,1 V	1.9	0.29	20
WDR32S820M	82	2.52 MHz,1 V	1.99	0.28	10,20
WDR32S101M	100	1 kHz,1 V	2.52	0.25	20
WDR32S121M	120	1 kHz,1 V	2.9	0.2	10,20
WDR32S151M	150	1 kHz,1 V	3.36	0.19	20
WDR32S181M	180	1 kHz,1 V	5.1	0.17	20
WDR32S221M	220	1 kHz,1 V	5.8	0.16	10,20
WDR32S271M	270	1 kHz,1 V	7.8	0.14	10,20

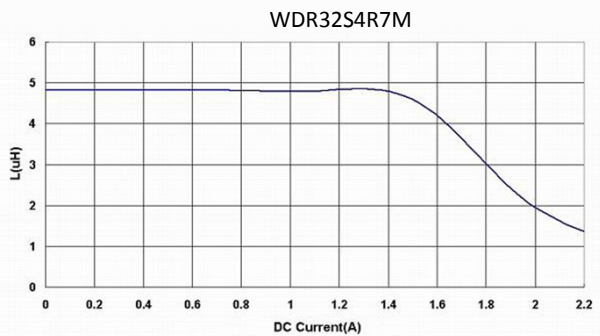
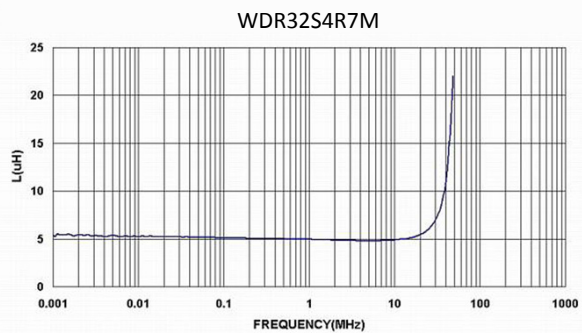
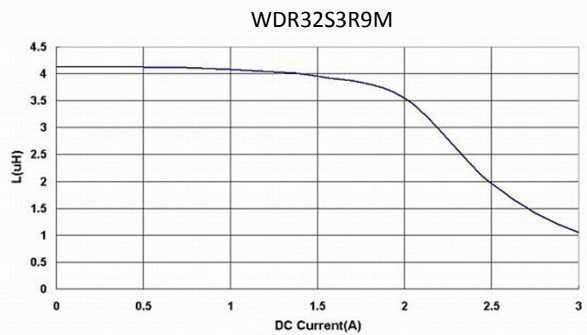
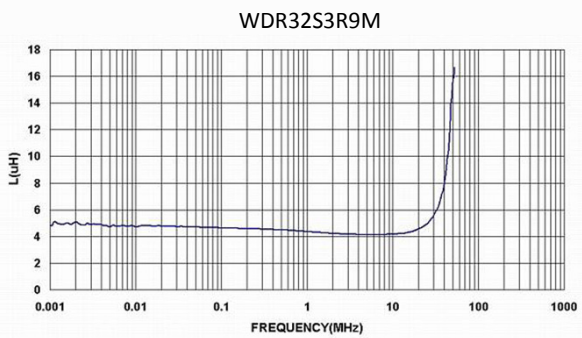
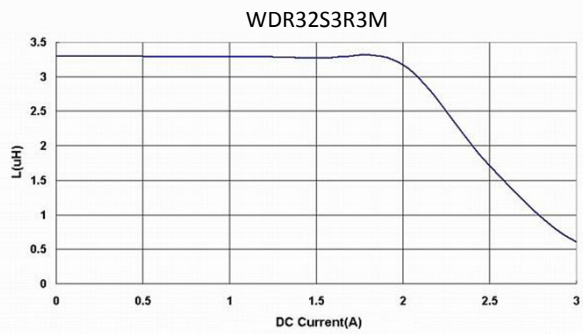
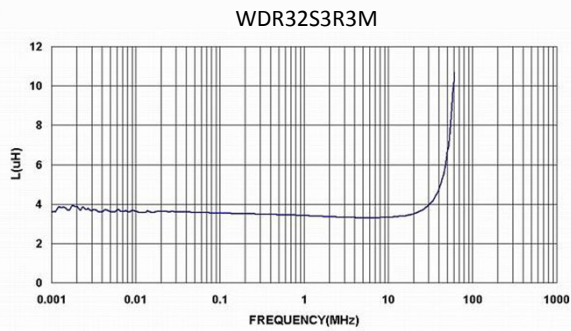
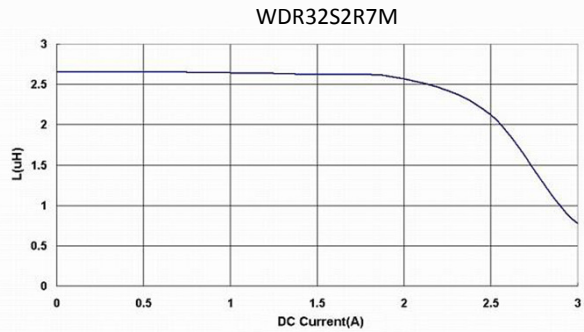
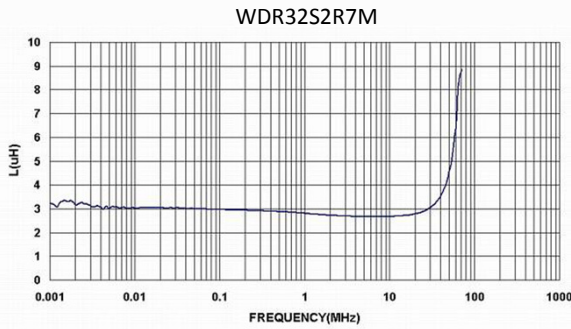
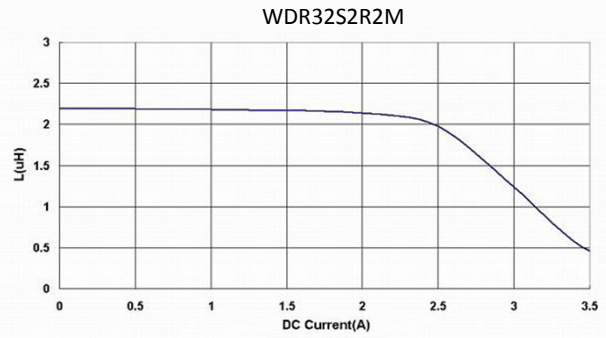
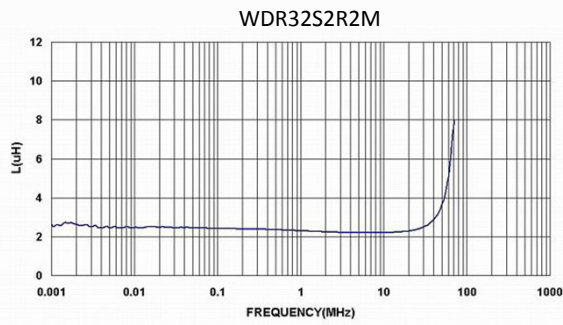
Notes:

- 1.tolerance $K=\pm 10\%$ / $M=\pm 20\%$ / $T=\pm 30\%$
- 2.All test data is referenced to 25°C ambient.
- 3.Operating temperature range $-40^{\circ}\text{C} \sim 105^{\circ}\text{C}$ (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: $26\pm 3^{\circ}\text{C}$
Humidity: $<70\%$ RH

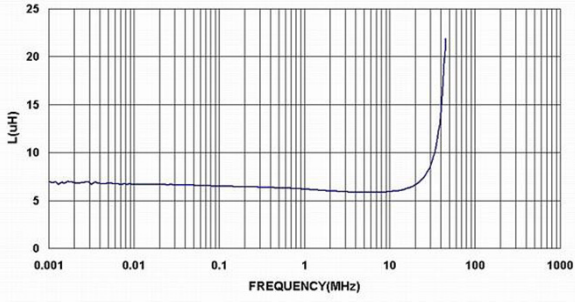
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Curve:

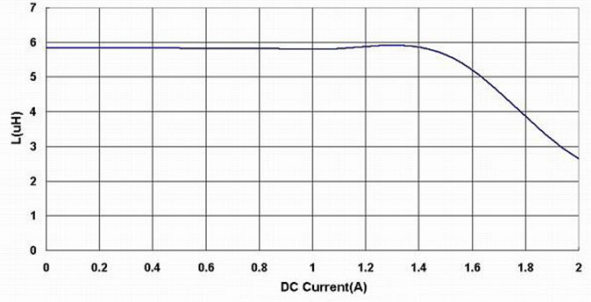




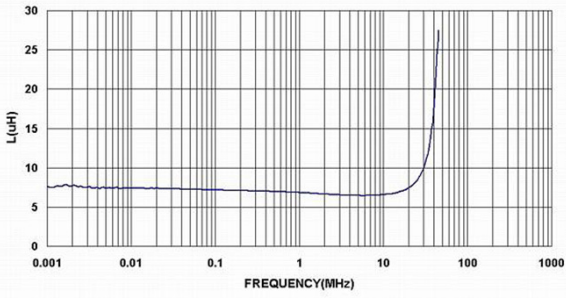
WDR32S5R6M



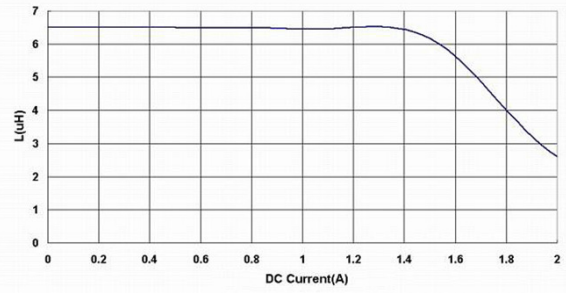
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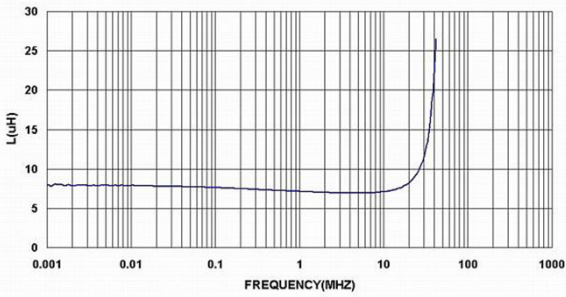
WDR32S6R8M



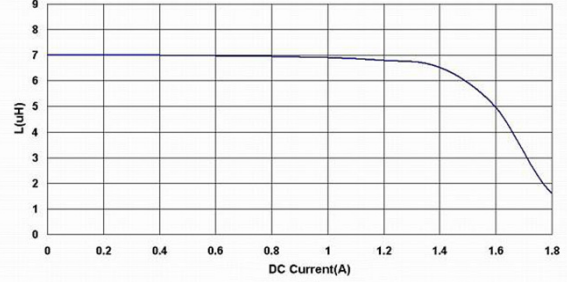
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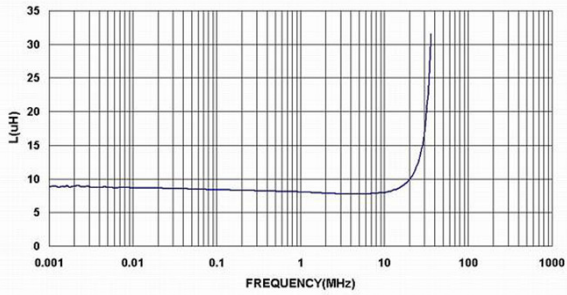
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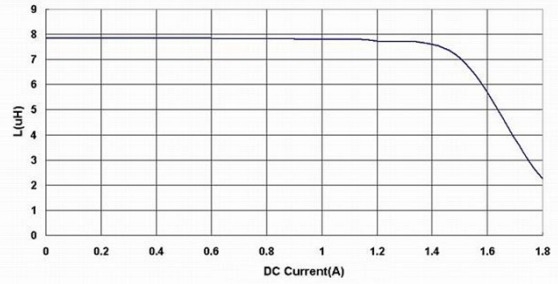
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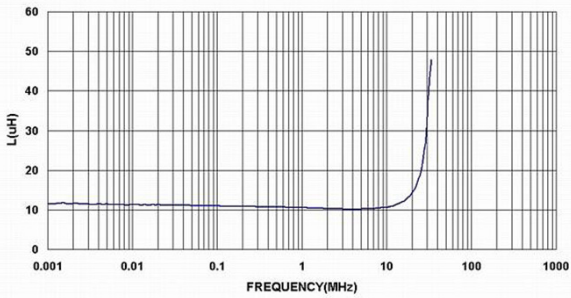
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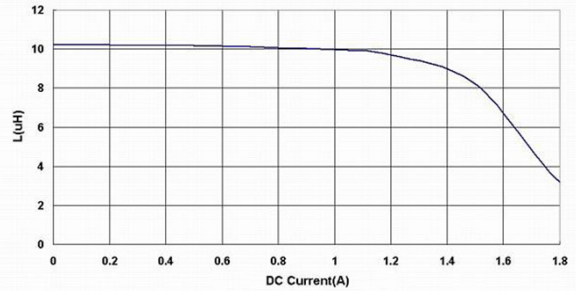
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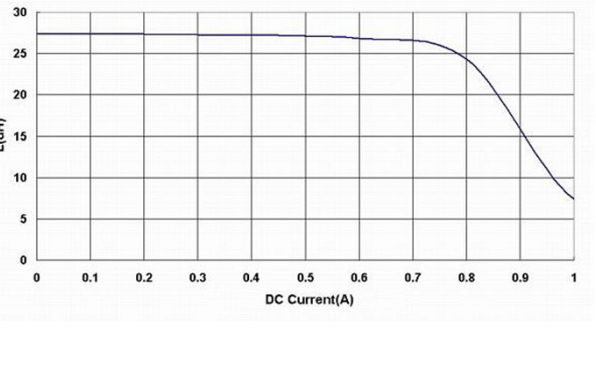
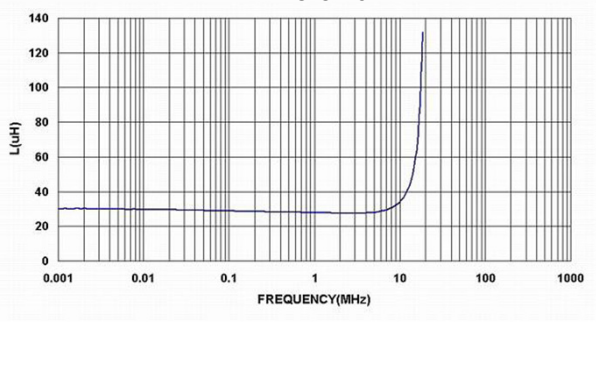
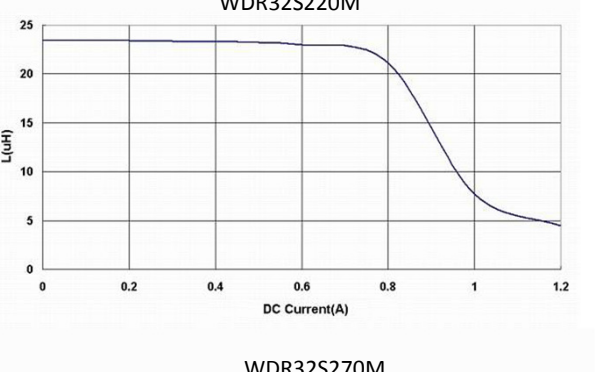
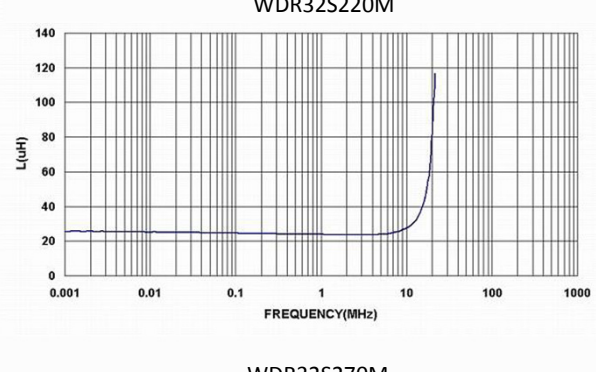
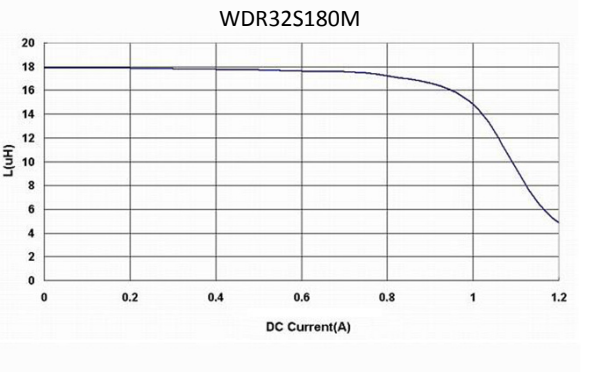
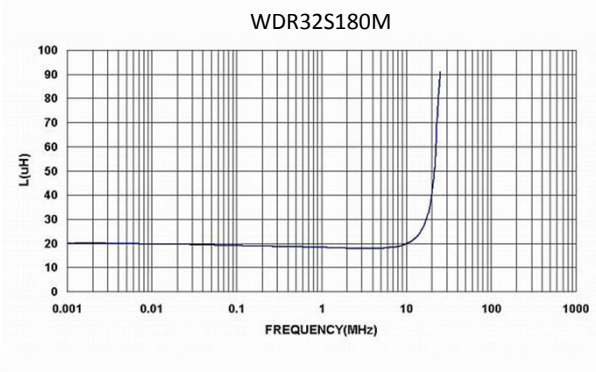
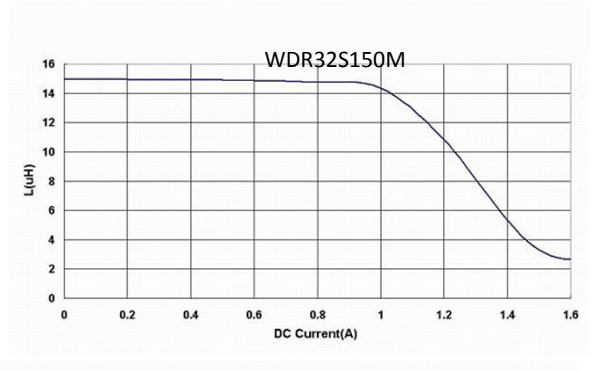
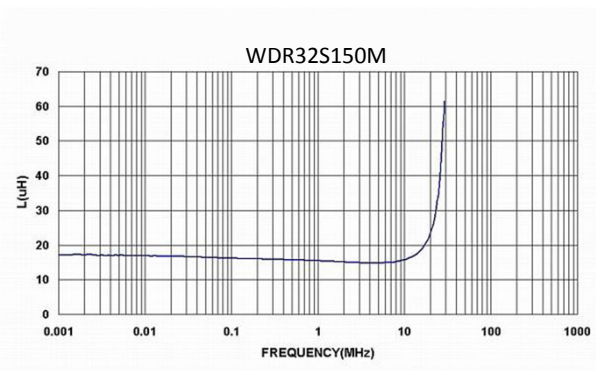
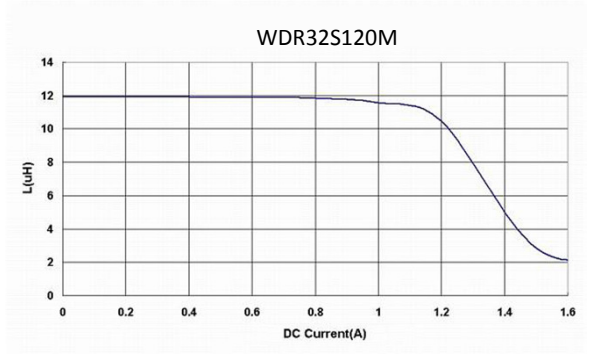
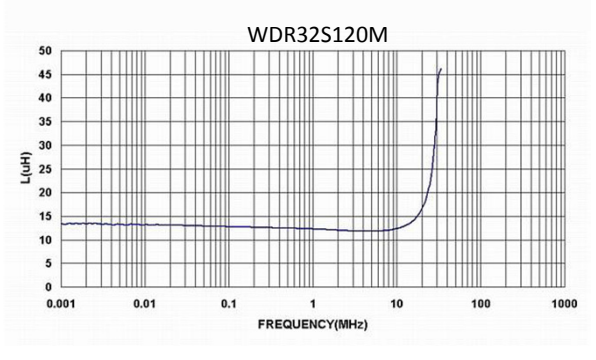


WDR32S100M

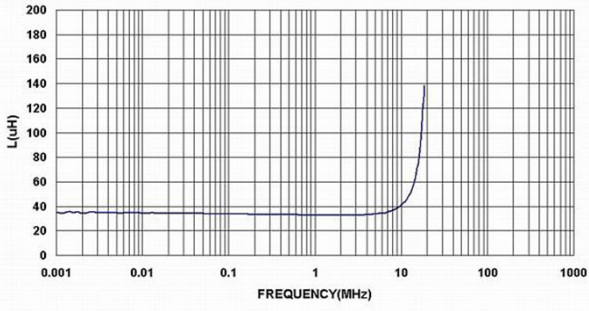


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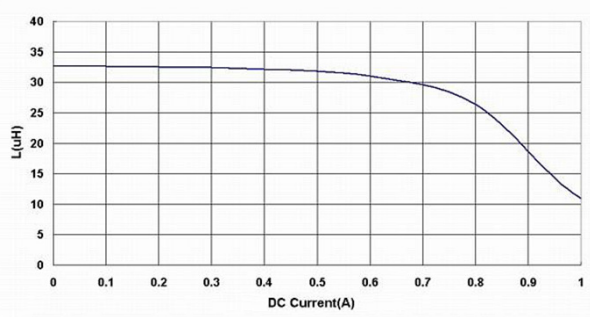




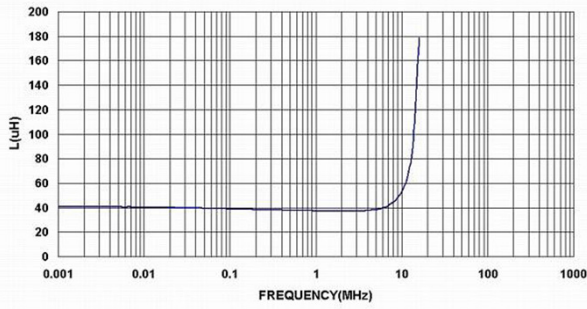
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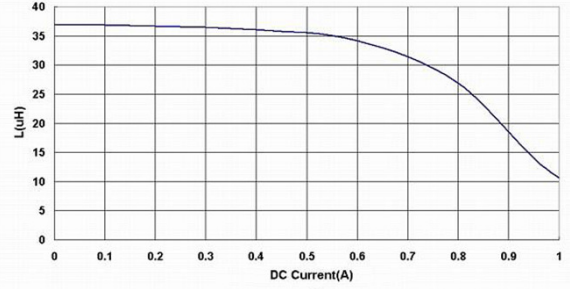
WDR32S330M



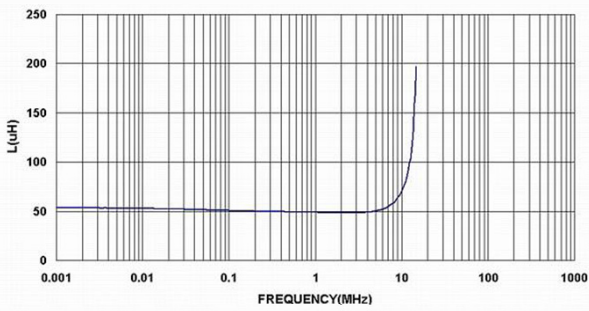
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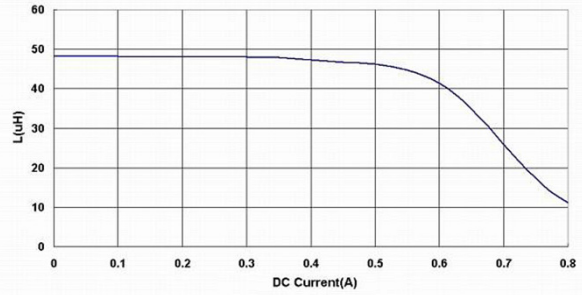
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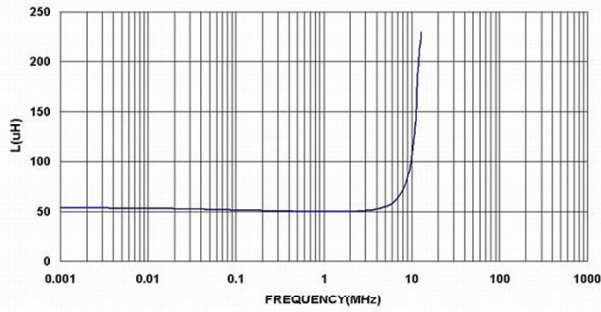
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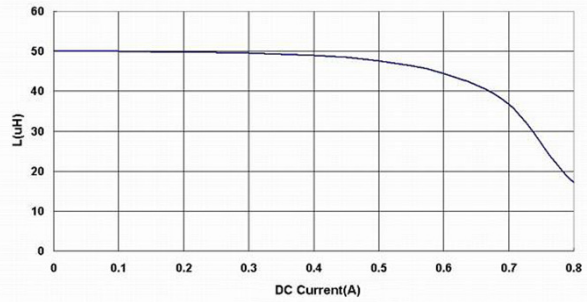
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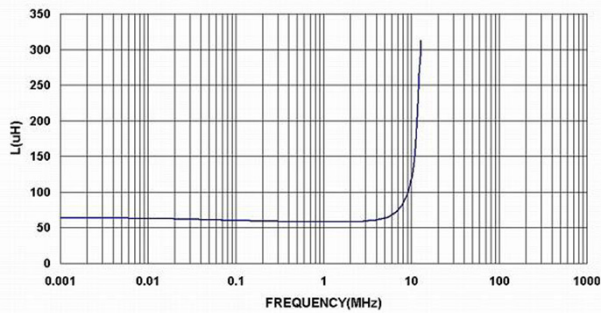
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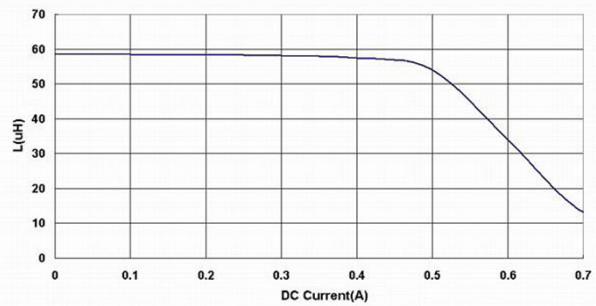
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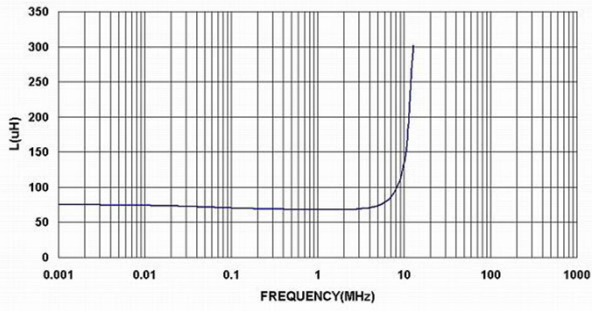
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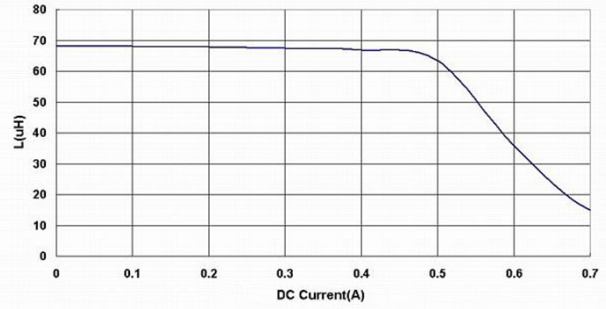
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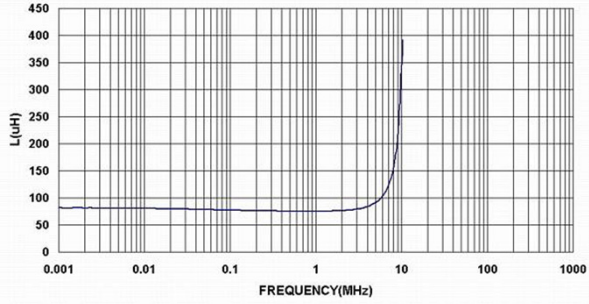
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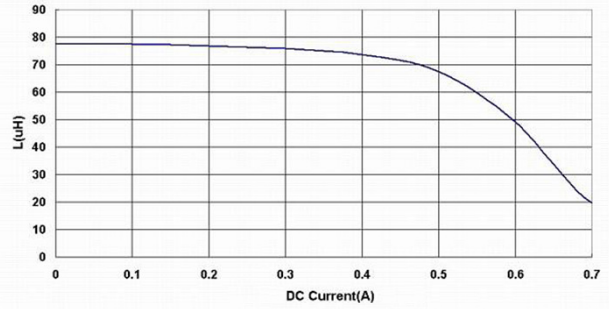
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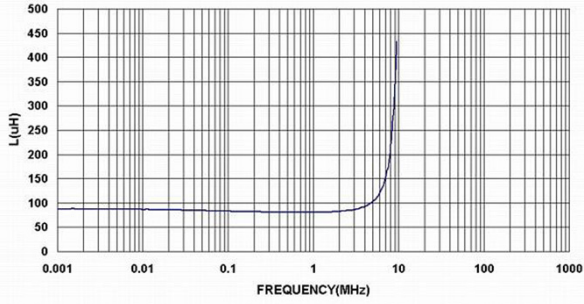
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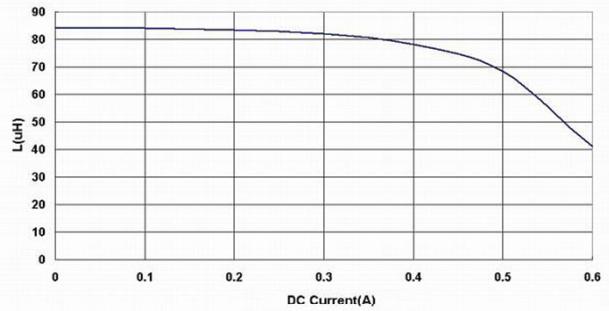
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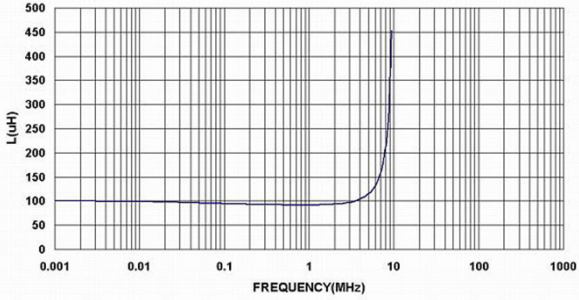
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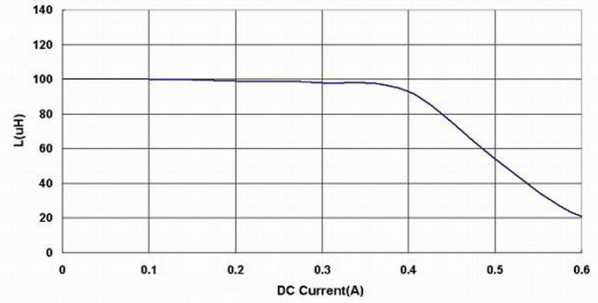
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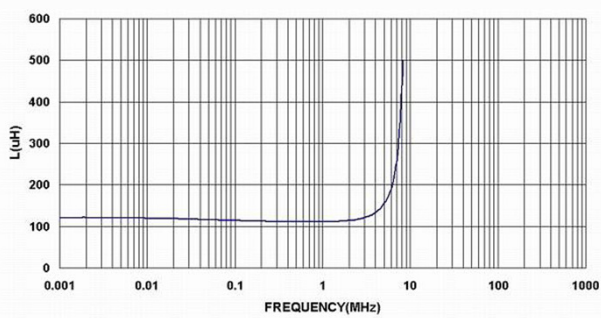
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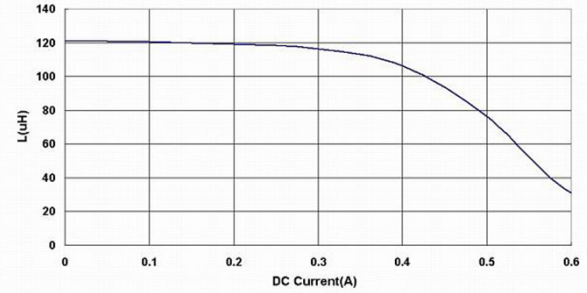
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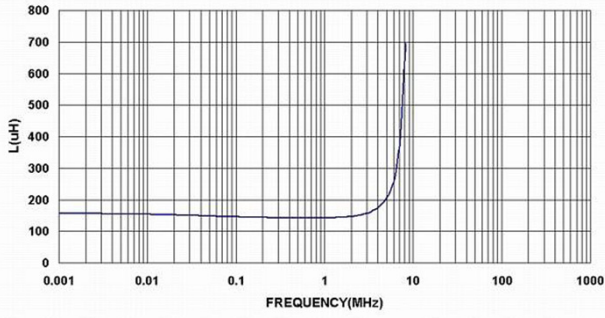
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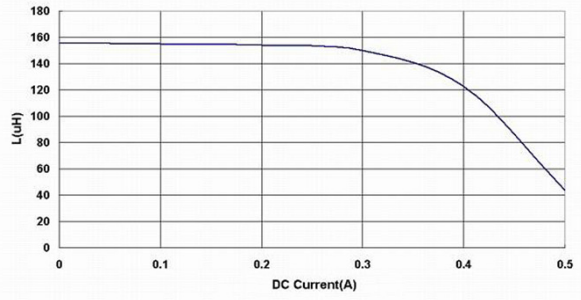
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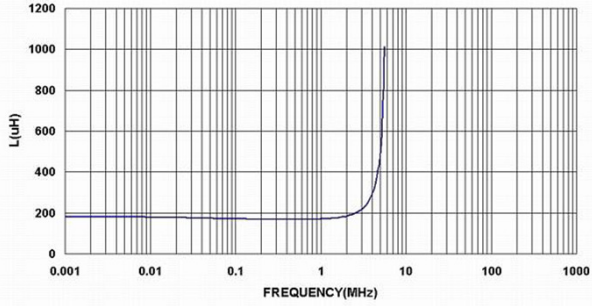
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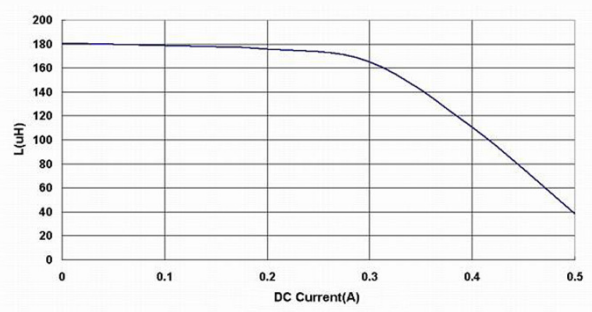
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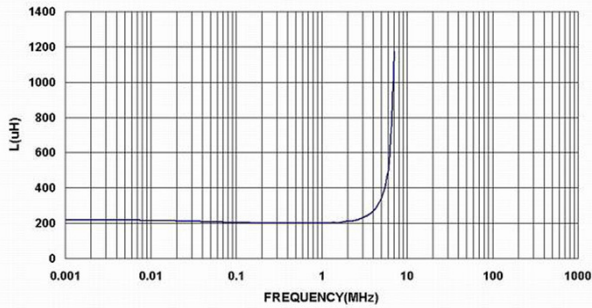
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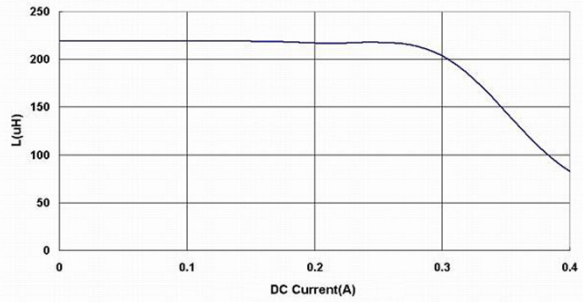
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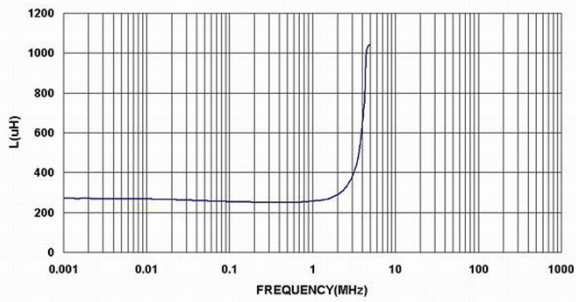
WDR32S221M



WDR32S221M



WDR32S271M



WDR32S271M

