

SMD shielded Power Inductors -WDRH Series



WDRH Series



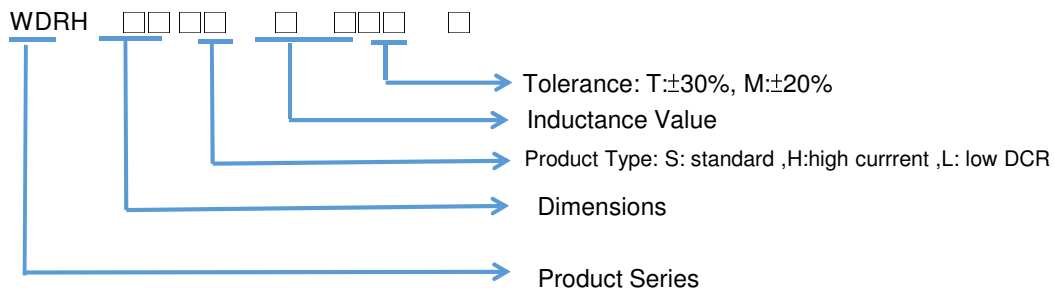
Description:

- RoHS, Halogen Free and REACH Compliance
- Magnetic shielded
- Various package size and wide inductance range

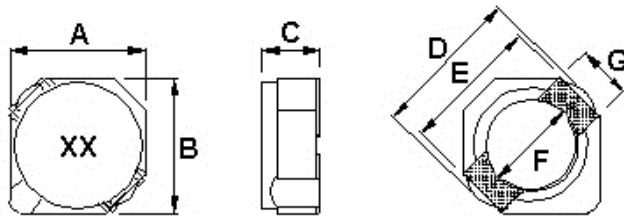
Applications:

- AP Routers
- STBs
- LCD TVs and monitors
- Game consoles
- LED lightings
- DC/DC converters

Product Identification



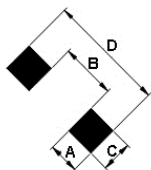
Dimensions-mm



Dimensions-mm

TYPE	A	B	C	D	E	F	G
WDRH2D18L	3.2Max	3.2Max	2.0Max	4.5Max	3.3	2.1	1.0

Recommended Pad Layout



Dimensions-mm

TYPE	A	B	C	D
WDRH2D18L	1.3	1.7	1.3	4.3

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Electrical Characteristics

Part No.	Inductance (μ H)	Test Freq.	RDC (Ω)Max.	Isat(A) Max(Typ)	Irms (A)Typ.	Tolerance (\pm %)
WDRH2D18L2R2T	2.2	100 kHz,1V	0.041	0.85(1.10)	2.3	M,T
WDRH2D18L3R3T	3.3	100 kHz,1V	0.054	0.75(0.95)	2.1	M,T
WDRH2D18L4R7T	4.7	100 kHz,1V	0.078	0.63(0.78)	1.65	M,T
WDRH2D18L6R8T	6.8	100 kHz,1V	0.106	0.52(0.65)	1.32	M,T
WDRH2D18L100M	10	100 kHz,1V	0.18	0.43(0.53)	1	M,T
WDRH2D18L150M	15	100 kHz,1V	0.22	0.35(0.45)	0.8	M,T
WDRH2D18L220M	22	100 kHz,1V	0.32	0.30(0.36)	0.68	M,T
WDRH2D18L330M	33	100 kHz,1V	0.46	0.24(0.31)	0.56	M,T
WDRH2D18L390M	39	100 kHz,1V	0.6	0.21(0.28)	--	M,T
WDRH2D18L470M	47	100 kHz,1V	0.66	0.19(0.24)	0.48	M,T

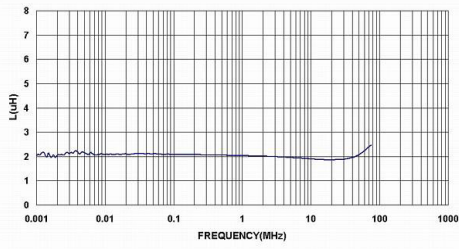
Notes:

- 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 $-30^{\circ}\text{C} \sim 100^{\circ}\text{C}$ (Including self - temperature rise)
- 4.Isat for Inductance drop 35% from its value without current.
- 5.Irms for a 40°C temperature rise from 25°C ambient.
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°C
Humidity:<70% RH

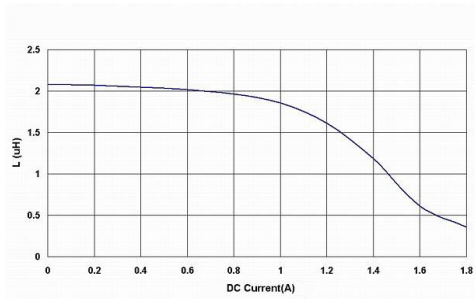
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Curve:

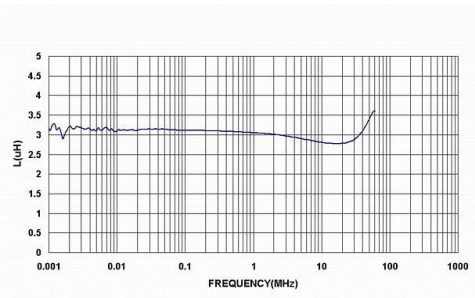
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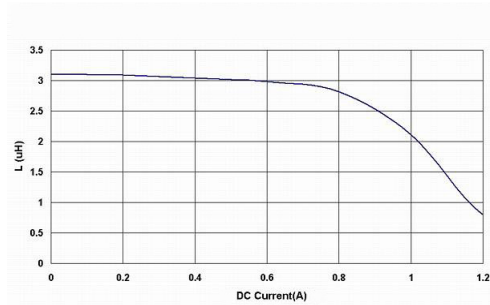
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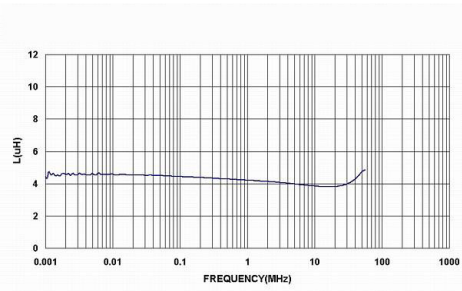
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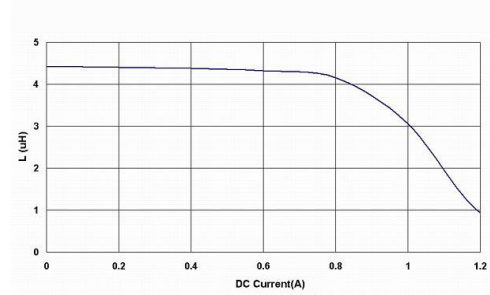
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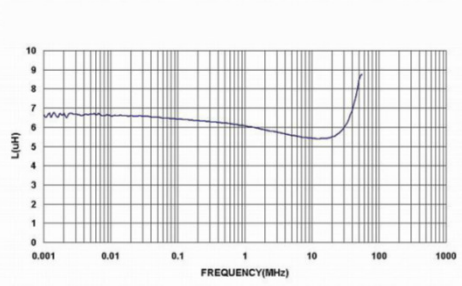
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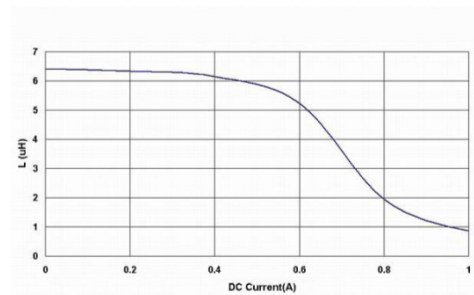
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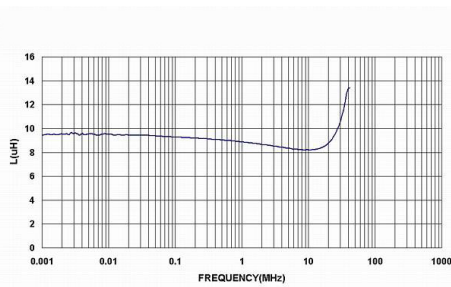
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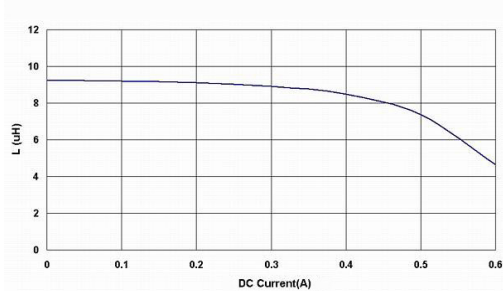
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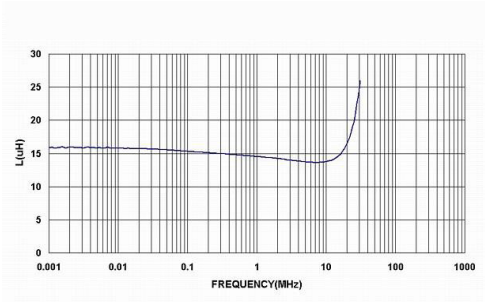
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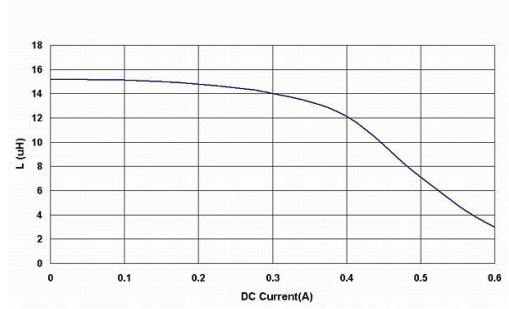
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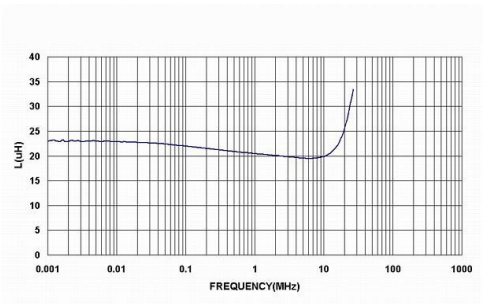
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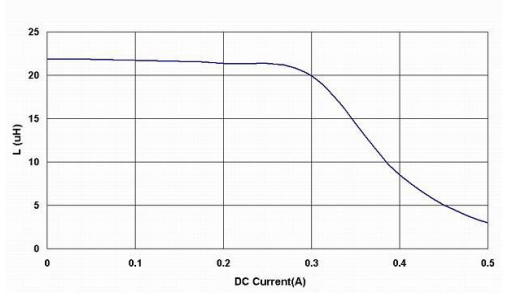
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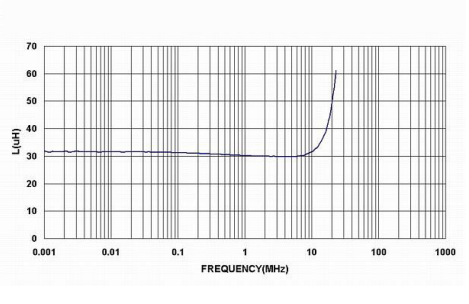
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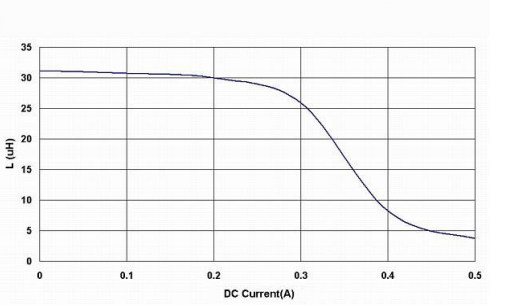
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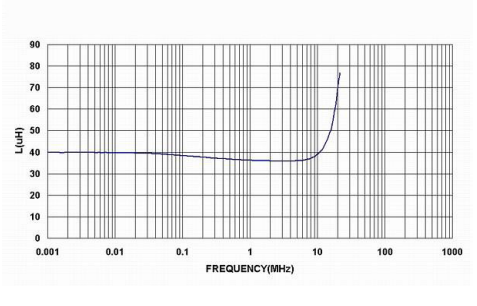
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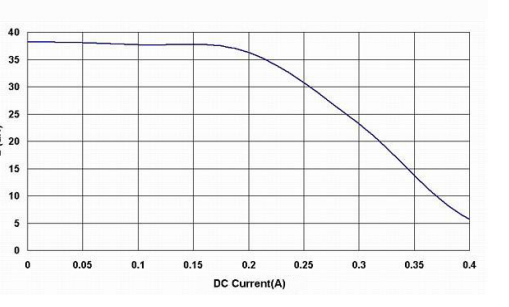
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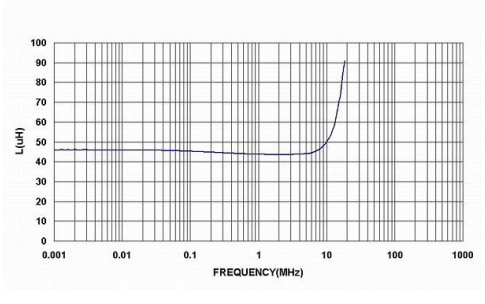
WDRH2D18L390M



WDRH2D18L390M



WDRH2D18L470M



WDRH2D18L470M

