

SMD shielded Power Inductors -WDRH Series



WDRH Series



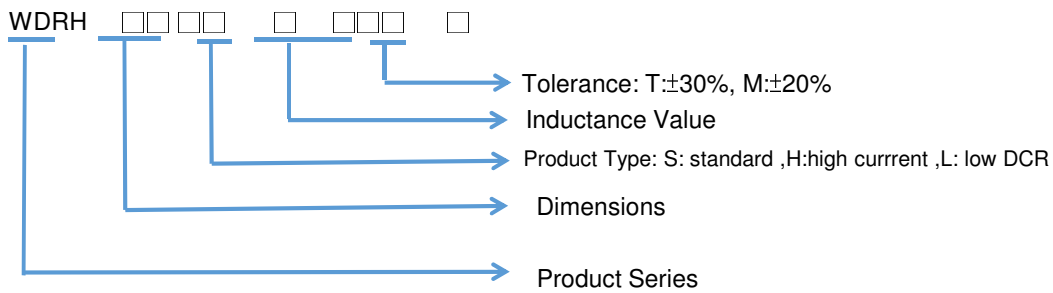
Description:

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

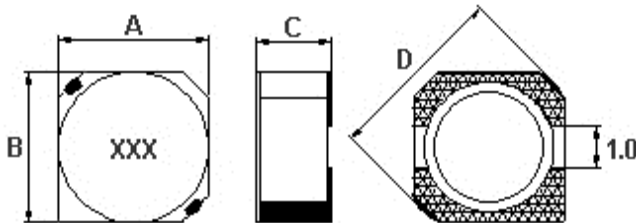
Applications:

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

Product Identification



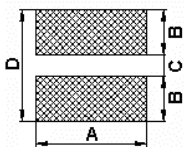
Dimensions-mm



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TYPE	A	B	C	D
WDRH3D16S	4.0Max	4.0Max	1.8Max	5.2Max

Recommended Pad Layout



Dimensions-mm

TYPE	A	B	C	D
WDRH3D16S	4.6	1.6	1.4	4.6

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Electrical Characteristics

Part No.	Inductance (μ H)	Test Freq.	RDC (Ω)Max.	Isat(A) Max(Typ)	Tolerance (\pm %)
WDRH3D16S1R0T	1.0	100 kHz,0.1 V	0.04	1.35(1.70)	30
WDRH3D16S1R5T	1.5	100 kHz,0.1 V	0.052	1.25(1.60)	30
WDRH3D16S2R2T	2.2	100 kHz,0.1 V	0.072	1.00(1.30)	30
WDRH3D16S3R3T	3.3	100 kHz,0.1 V	0.085	0.88(1.10)	20,30
WDRH3D16S3R6T	3.6	100 kHz,0.1 V	0.09	0.74(0.93)	30
WDRH3D16S4R7T	4.7	100 kHz,0.1 V	0.105	0.72(0.90)	20,30
WDRH3D16S6R8T	6.8	100 kHz,0.1 V	0.17	0.61(0.74)	20,30
WDRH3D16S100T	10	100 kHz,0.1 V	0.21	0.55(0.60)	20,30
WDRH3D16S150T	15	100 kHz,0.1 V	0.295	0.45(0.52)	20,30
WDRH3D16S220T	22	100 kHz,0.1 V	0.43	0.32(0.40)	20,30
WDRH3D16S270T	27	100 kHz,0.1 V	0.62	0.30(0.37)	30
WDRH3D16S330T	33	100 kHz,0.1 V	0.675	0.26(0.32)	30
WDRH3D16S680T	68	100 kHz,0.1 V	1.7	0.16(0.21)	30

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.

RDC test method: place testing device to the 2 solder ends of winding and test the value.

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:

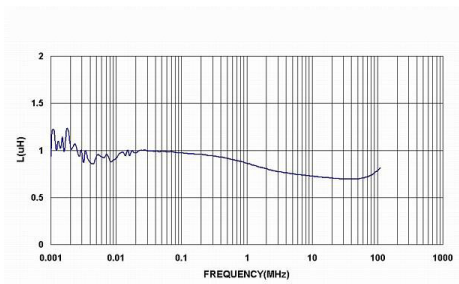
Temperature:26 \pm 3°C

Humidity:<70% RH

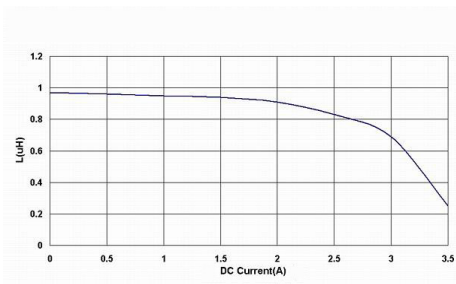
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Curve:

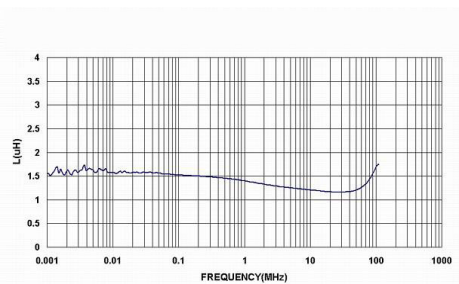
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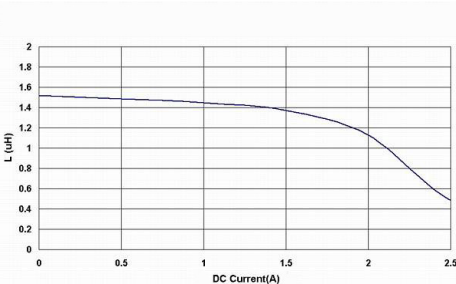
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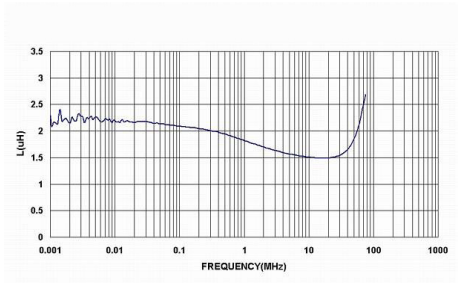
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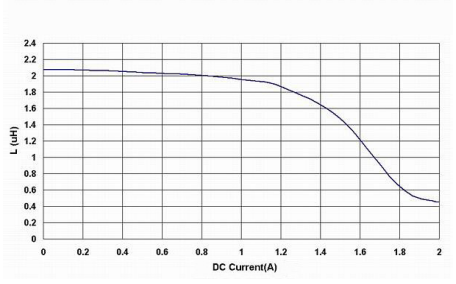
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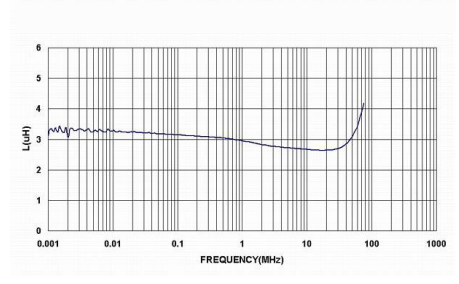
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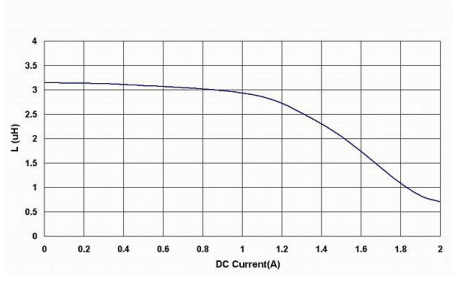
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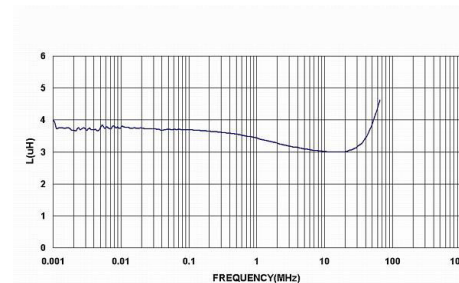
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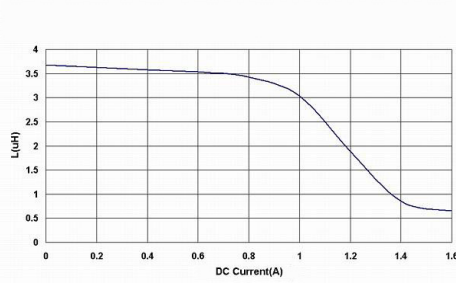
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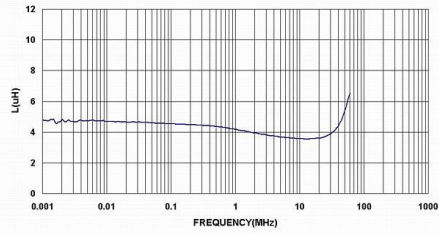
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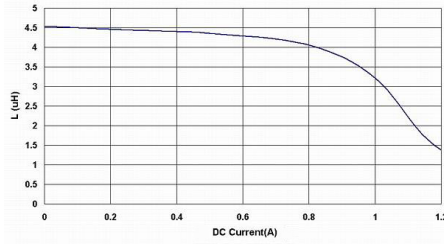
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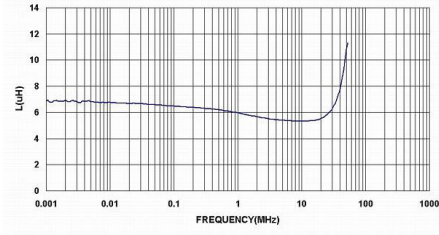
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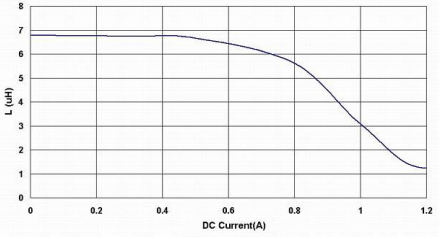
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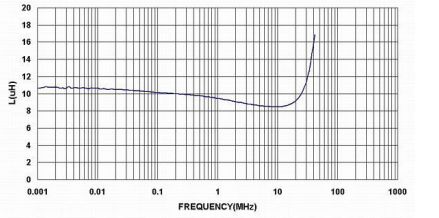
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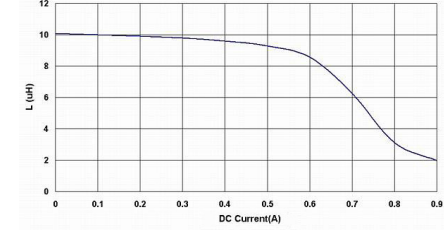
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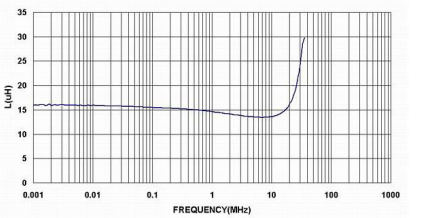
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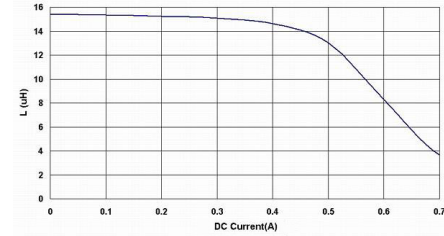
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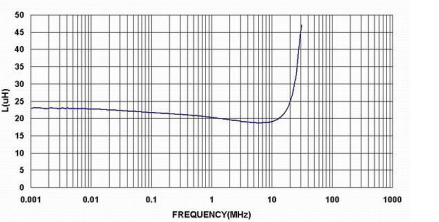
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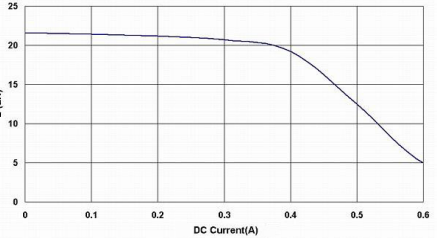
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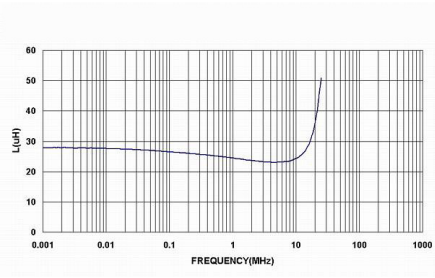
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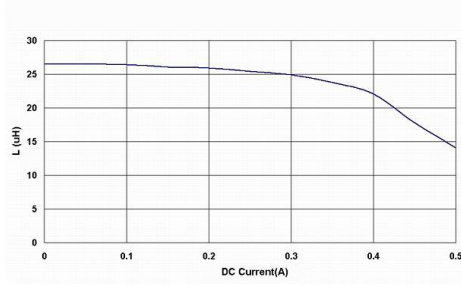
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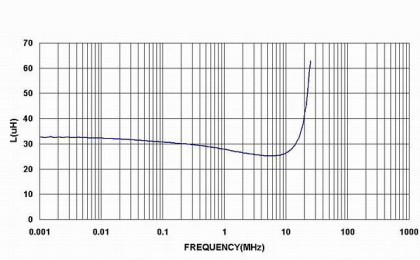
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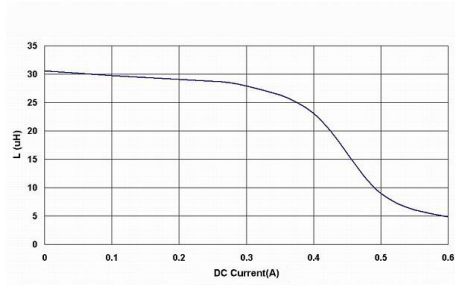
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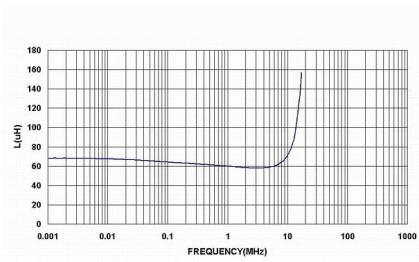
WDRH3D16S330T



WDRH3D16S330T



WDRH3D16S680T



WDRH3D16S680T

