XRK0530B

AEC-Q200

■ Features

- Realization of small size and high current specifications by metallic magnetic material.
- Decreased acoustic noise by there are no air gaps.
- Low inductance variance in temperature environments.
- AEC-Q200 compliant
- Operating temperature：-40℃～+150℃(The self-heating is included)
- Withstand Voltage:80V(≦4.7μH)、70V(≧5.6μH)

Magnetic structure：

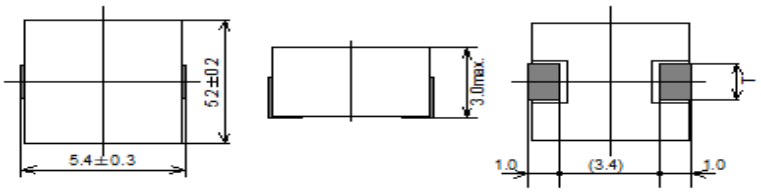
Mold

Weight： 0.42～0.44 g

■ Applications

- Audio Visual/TV and Monitor,Mini System, AV Amplifier, for Professionals,Camera,Recorder
- Automotive/Car Audio,Car Navigation,ECU,LED Headlights
- Computer & Peripheral Device/Computer,Printer(MFP),Industorial Machines
- Home Electronics/LED Lights
- Others/Power Supply,FA,Medical,Energy

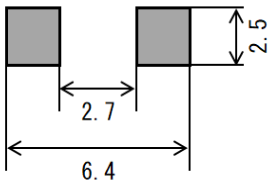
■ Dimensions



Inductance	T
0.22,0.33,0.35uH	1.5
0.2,0.47～22uH	2.3

(Unit：mm)

■ Recommended Land Pattern



(Unit：mm)

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⚠ The contents of this catalogue are subject to change without notice.

■ Specifications

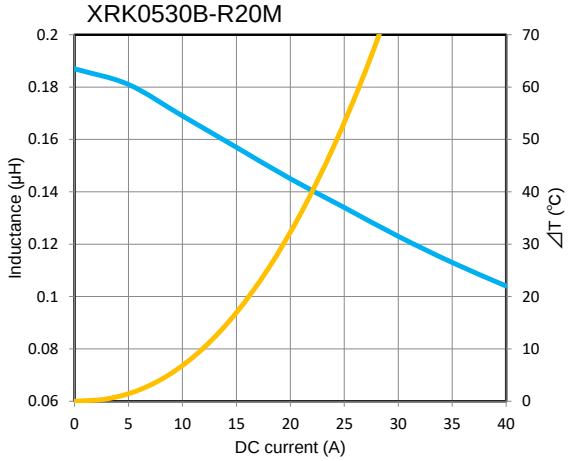
SAGAMI Part No.	Inductance (μH)	DCR (mΩ)		DC Saturation Allowable Current (A)	Temperature Rise Allowable Current (A)
		max.	Typical		
XRK0530B-R20M	0.2±20%	2.00	1.60	20.0	20.5
XRK0530B-R22M	0.22±20%	2.30	2.10	23.0	15.8
XRK0530B-R33M	0.33±20%	3.40	2.90	16.0	14.0
XRK0530B-R35M	0.35±20%	3.40	2.90	15.0	14.0
XRK0530B-R47M	0.47±20%	6.10	5.30	12.0	11.0
XRK0530B-R68M	0.68±20%	8.00	6.90	12.0	10.0
XRK0530B-R75M	0.75±20%	7.70	6.60	11.5	10.0
XRK0530B-1R0M	1±20%	11.4	10.0	8.50	8.40
XRK0530B-1R5M	1.5±20%	17.7	15.4	8.50	6.20
XRK0530B-2R2M	2.2±20%	23.0	20.0	6.40	5.50
XRK0530B-3R3M	3.3±20%	38.0	32.0	6.50	4.70
XRK0530B-4R7M	4.7±20%	47.0	41.0	6.00	4.10
XRK0530B-5R6M	5.6±20%	59.0	51.0	4.50	3.60
XRK0530B-6R8M	6.8±20%	70.0	61.0	4.00	3.30
XRK0530B-100M	10±20%	108.0	90.0	2.30	2.80
XRK0530B-220M	22±20%	250.0	215.0	1.70	1.70

Inductance Measuring Condition:100kHz,1V
DC saturation allowable current:The current value which inductance decrease 20% from the initial value
Temperature rise allowable current:The rise in temperature of core surface is 30℃

DC bias characteristics vs Temperature Rise Graph

L(25°C) ⊿T

XRK0530B-R20M



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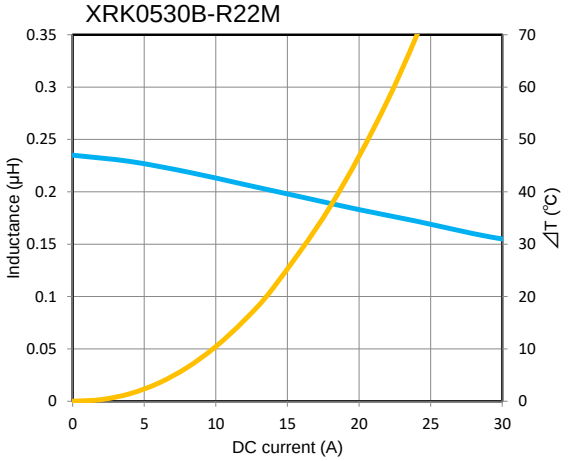

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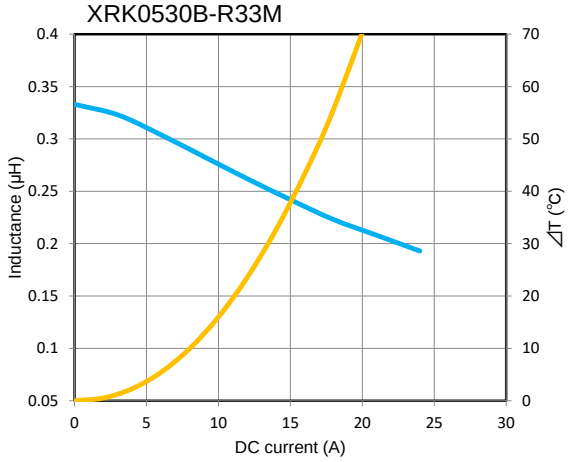

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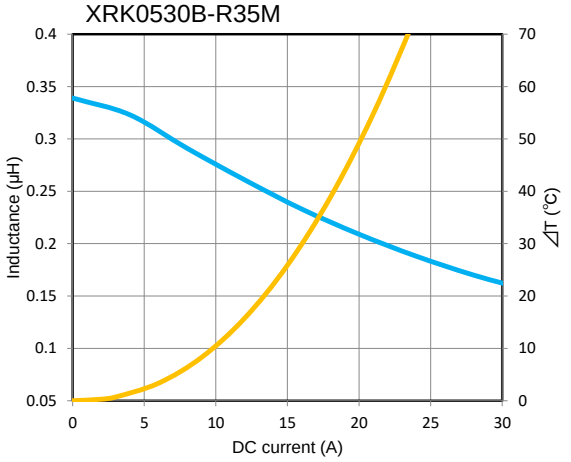

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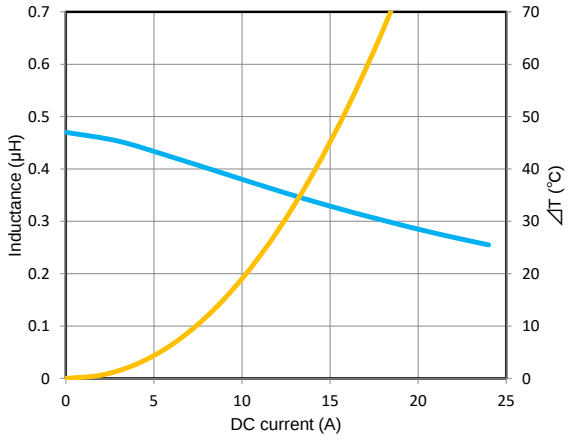

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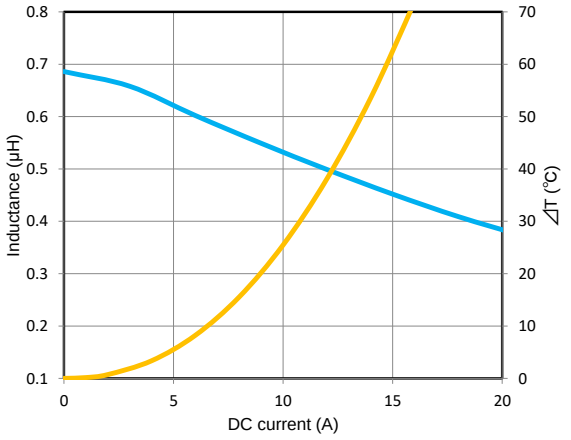
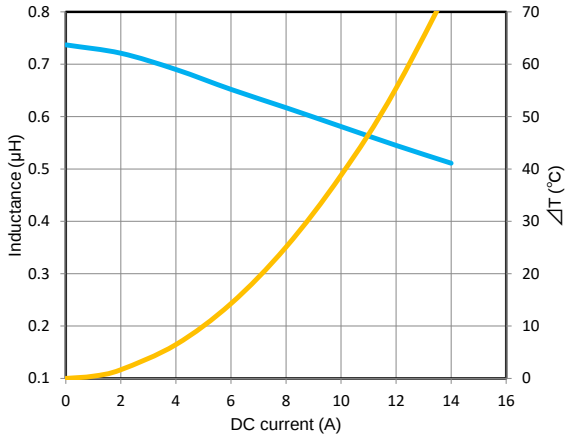


DC bias characteristics vs Temperature Rise Graph

L(25°C)　　⊿T

XRK0530B-R75M



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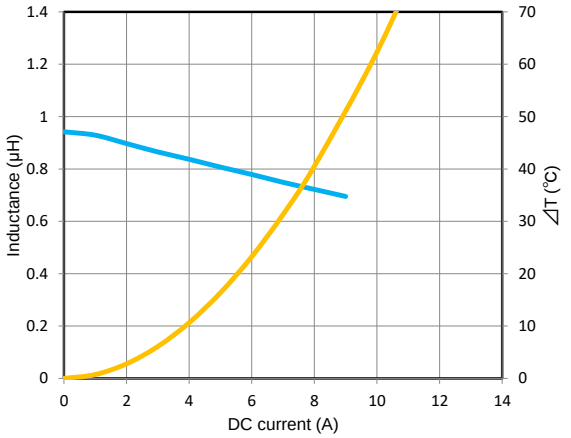

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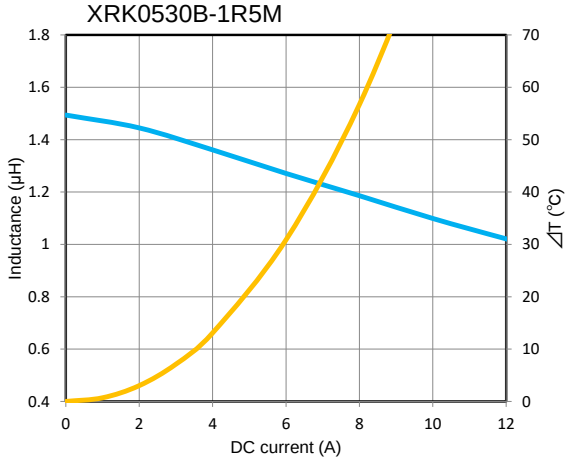

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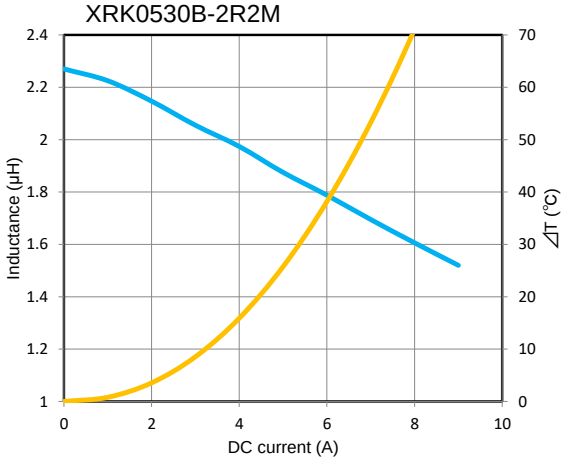

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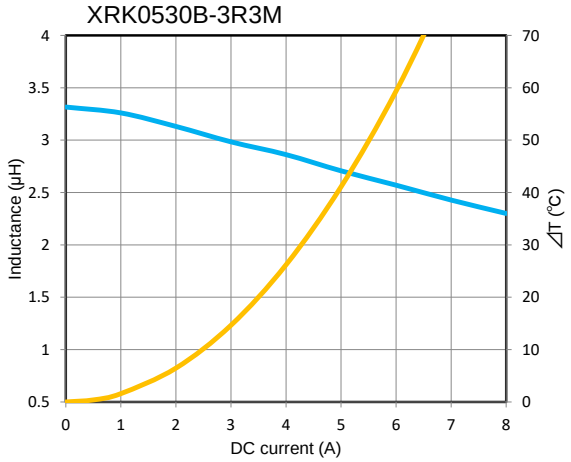

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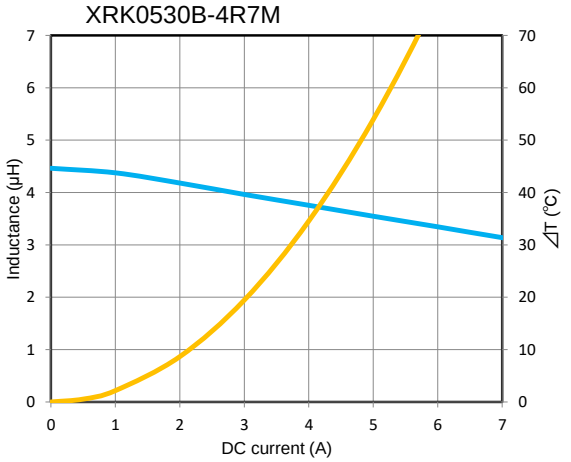

DC bias characteristics vs Temperature Rise Graph

L(25°C) ⊿T

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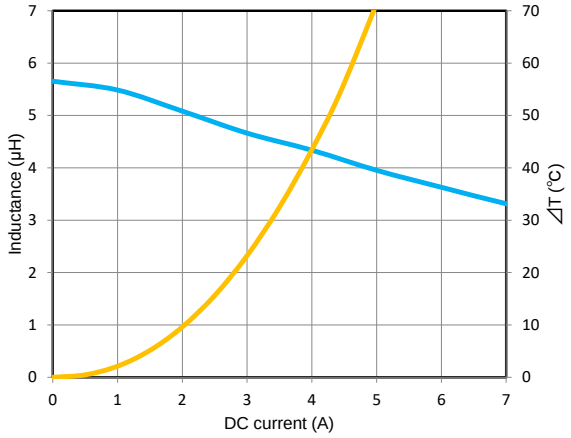

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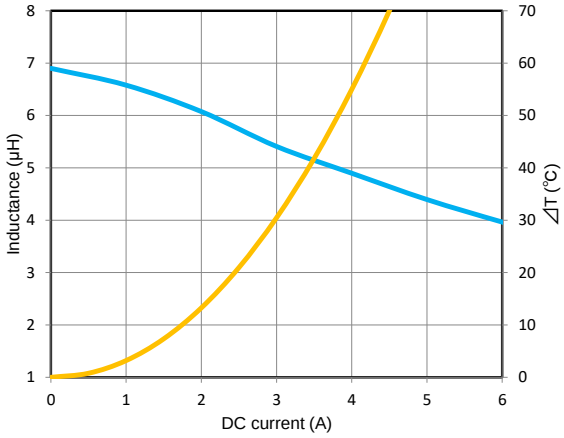
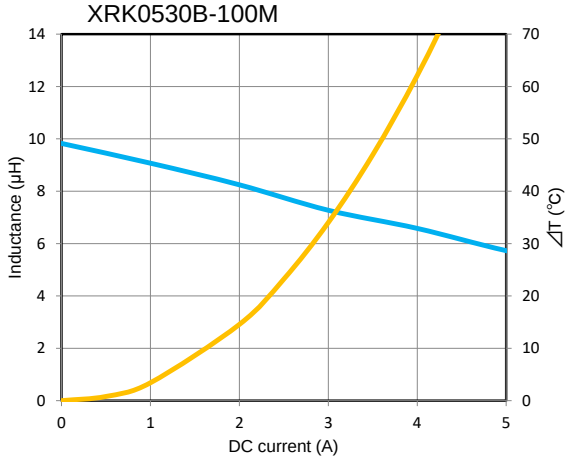
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