

XRK1040B

AEC-Q200



■ Features

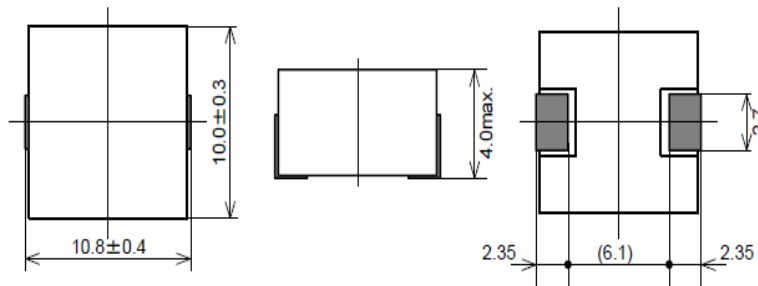
- Realization of small size and high current specifications by metallic magnetic material.
- Decreased acoustic noise by there are no air gaps.
- Low inductance variance in temperature environments.
- AEC-Q200 compliant
- Operating temperature : $-40^{\circ}\text{C}\sim+150^{\circ}\text{C}$ (The self-heating is included)

Weight : 2.2~2.5 g

■ Applications

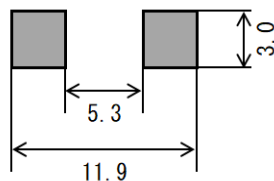
- Audio Visual/TV and Monitor, Mini System, AV Amplifier, for Professionals, Camera, Recorder
- Automotive/Car Audio, Car Navigation, ECU, LED Headlights
- Computer & Peripheral Device/Computer, Printer(MFP), Industrial Machines
- Home Electronics/LED Lights
- Others/Power Supply, FA, Medical, Energy

■ Dimensions



(Unit : mm)

■ Recommended Land Pattern



(Unit : mm)



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Engineering Dept. TEL : +81 45 521 4543

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■ Specifications

SAGAMI Part No.	Inductance (μ H)	DCR		DC Saturation Allowable Current (A)	Temperature Rise Allowable Current (A)
		(m Ω)			
		max.	Typical		
XRK1040B-R20M	0.2 \pm 20%	0.700	0.600	60.0	36.0
XRK1040B-R36M	0.36 \pm 20%	1.20	1.00	33.0	26.0
XRK1040B-R45M	0.45 \pm 20%	1.20	1.10	40.0	25.0
XRK1040B-R47M	0.47 \pm 20%	1.30	1.10	35.0	25.0
XRK1040B-R56M	0.56 \pm 20%	1.80	1.60	24.0	22.5
XRK1040B-R90M	0.9 \pm 20%	2.50	2.20	22.0	20.0
XRK1040B-1R0M	1 \pm 20%	3.10	2.70	25.0	17.0
XRK1040B-1R5M	1.5 \pm 20%	4.20	3.80	22.0	14.0
XRK1040B-2R2M	2.2 \pm 20%	7.00	6.00	16.0	10.5
XRK1040B-3R3M	3.3 \pm 20%	11.4	9.90	11.5	8.20
XRK1040B-4R7M	4.7 \pm 20%	15.0	13.2	10.8	8.00
XRK1040B-5R6M	5.6 \pm 20%	17.0	14.0	9.00	7.70
XRK1040B-6R8M	6.8 \pm 20%	19.0	16.0	9.00	7.50
XRK1040B-100M	10 \pm 20%	30.0	27.0	6.00	5.50
XRK1040B-150M	15 \pm 20%	45.0	40.0	4.60	4.70
XRK1040B-220M	22 \pm 20%	65.0	58.0	4.60	3.80
XRK1040B-330M	33 \pm 20%	102.0	89.0	4.60	3.00
XRK1040B-470M	47 \pm 20%	165.0	147.0	3.60	2.30
XRK1040B-680M	68 \pm 20%	210.0	190.0	3.00	2.20
XRK1040B-820M	82 \pm 20%	240.0	215.0	2.60	1.90
XRK1040B-101M	100 \pm 20%	278.0	240.0	2.50	1.80

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°C



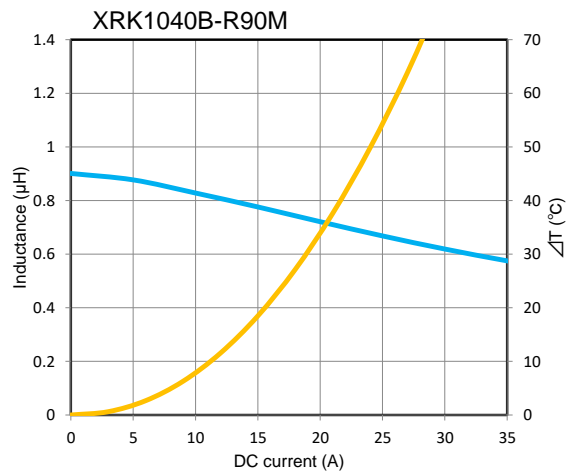
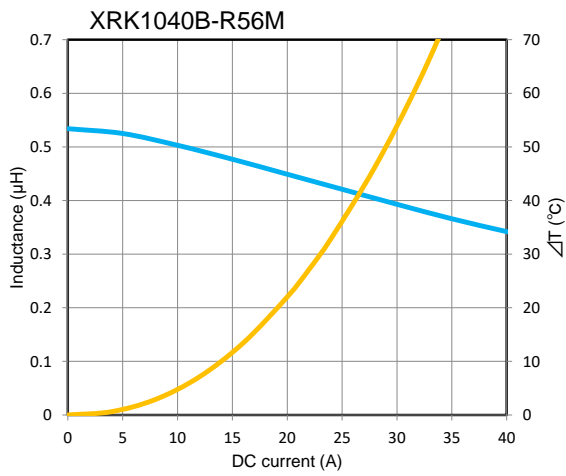
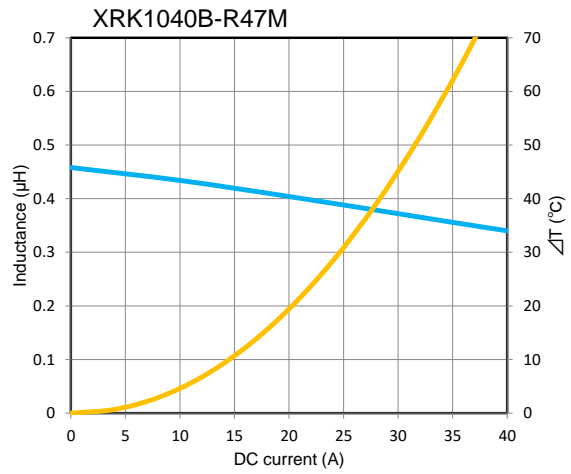
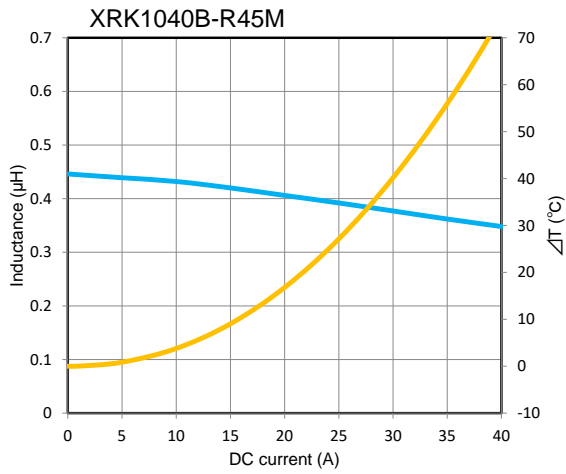
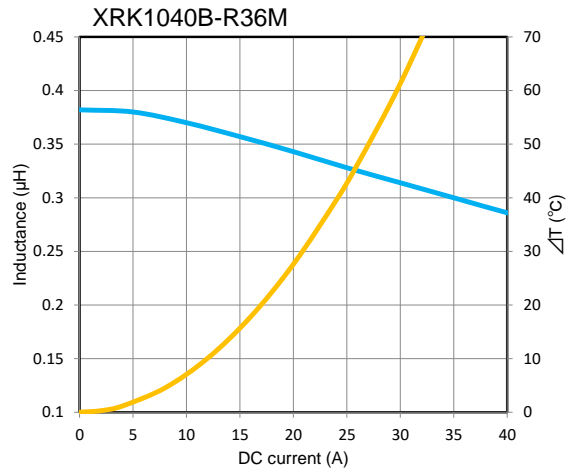
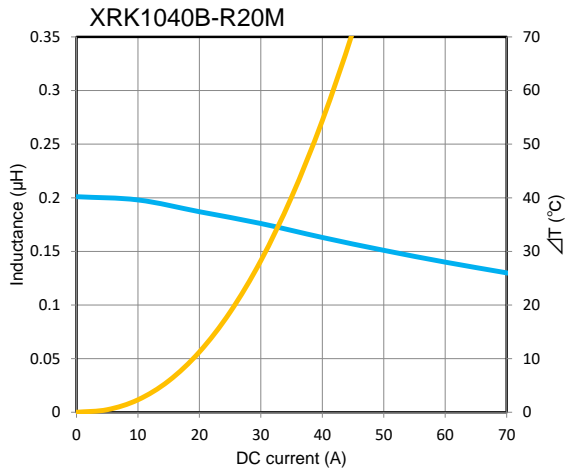
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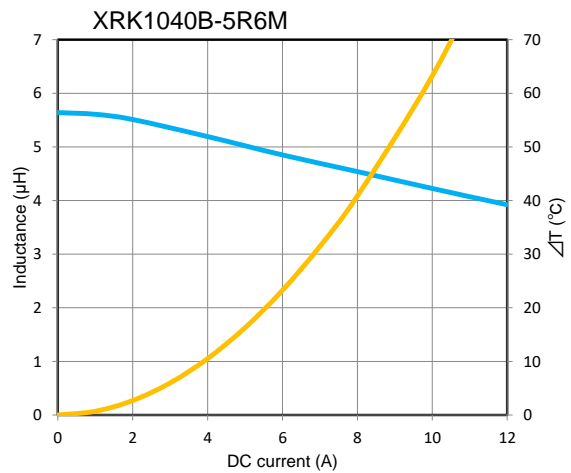
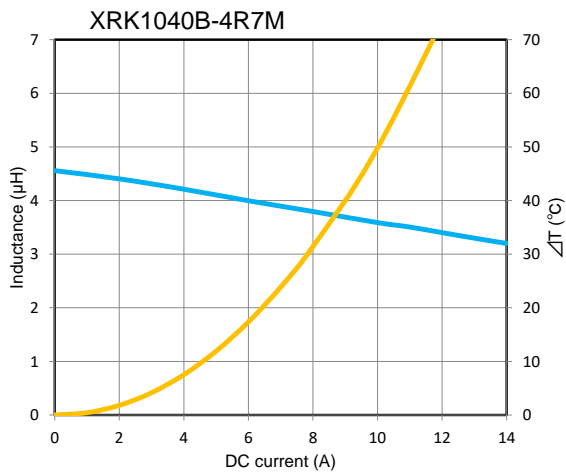
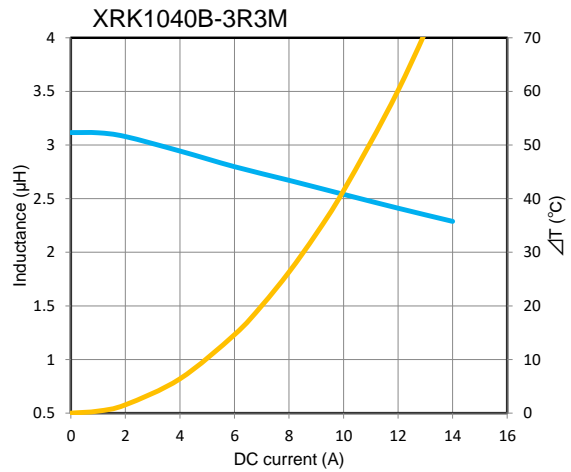
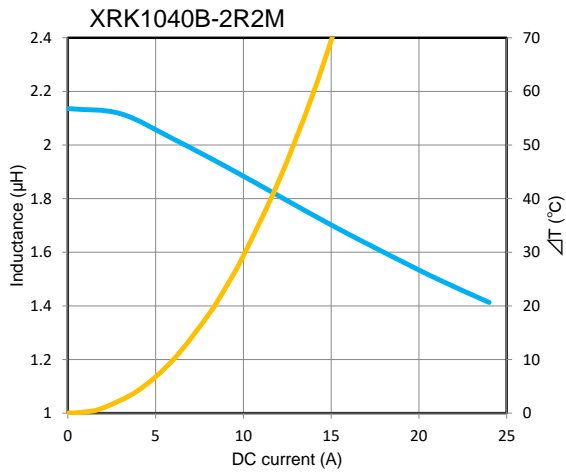
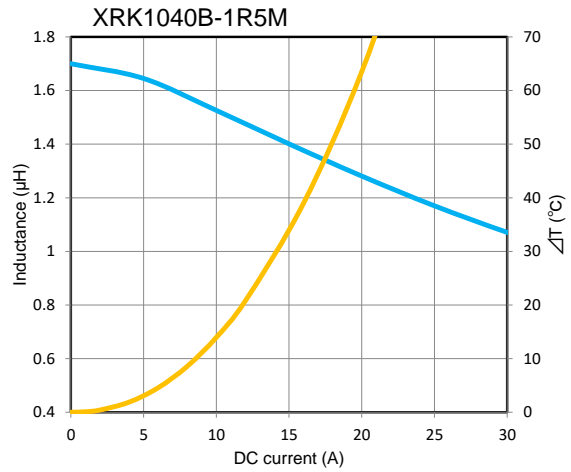
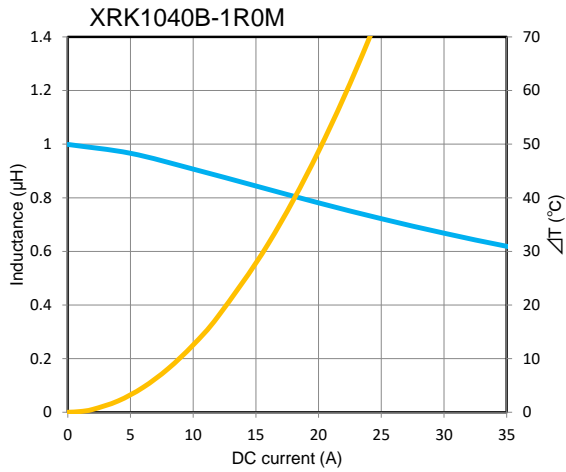
DC bias characteristics vs Temperature Rise Graph

— L(25°C) — ΔT



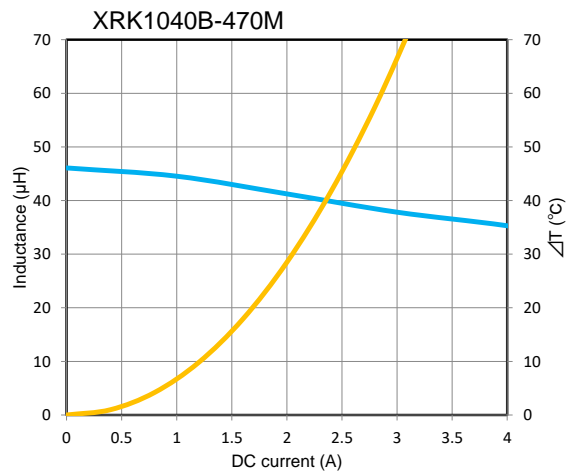
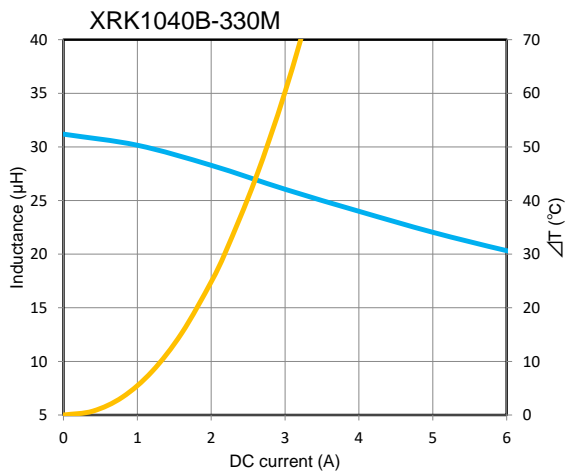
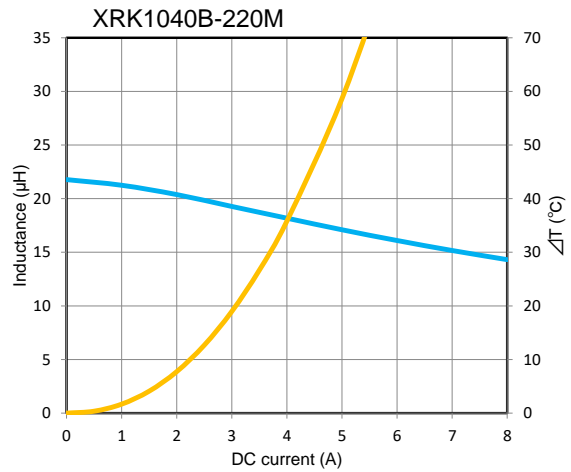
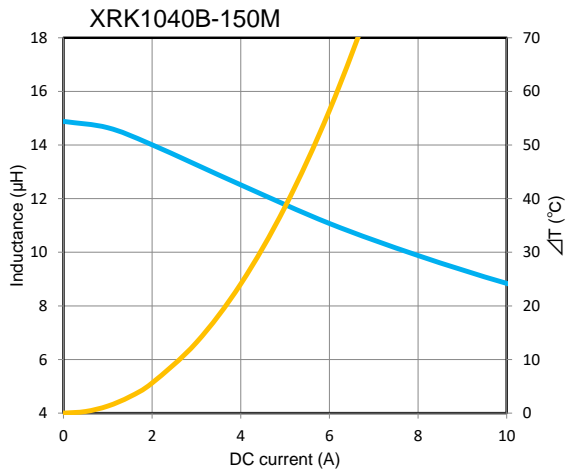
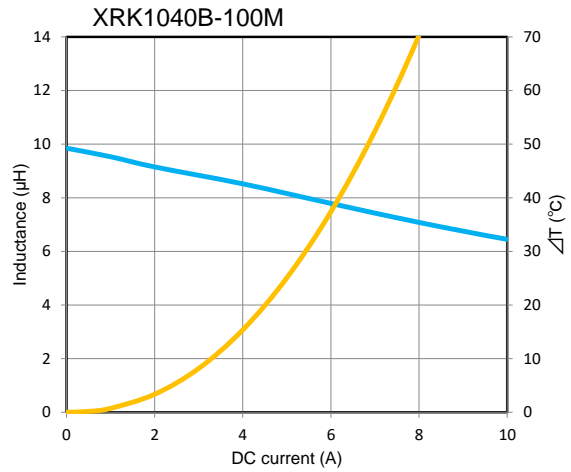
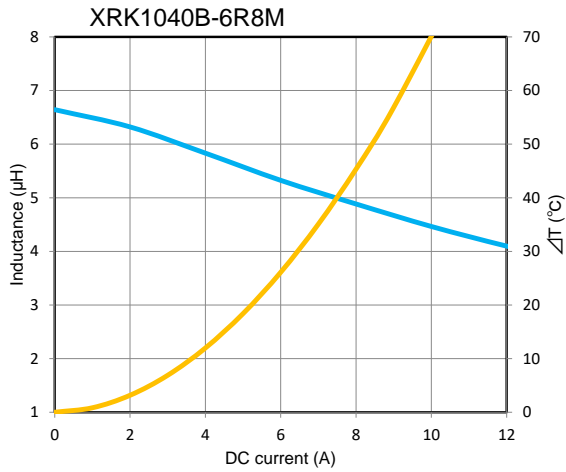
DC bias characteristics vs Temperature Rise Graph

■ L(25°C) ■ ΔT



DC bias characteristics vs Temperature Rise Graph

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DC bias characteristics vs Temperature Rise Graph



L(25°C)



ΔT

