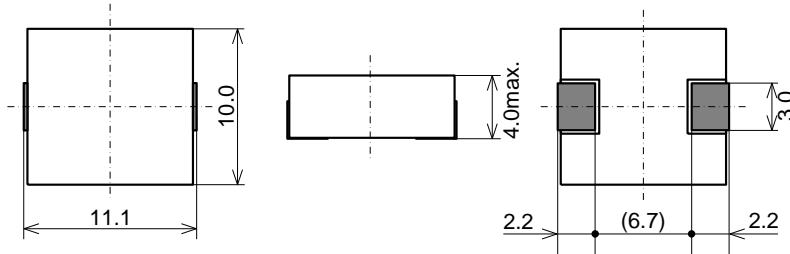
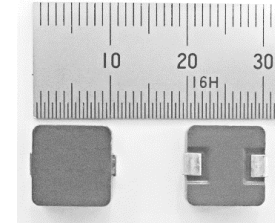


➤ Metal Power Inductor For Power Source (10mm x 4mm Automotive grade)

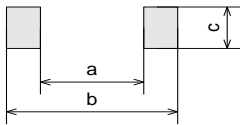
■ Dimensions (mm)/外形寸法図



■ Appearance/外觀



■ Recommended Land Pattern



Type	a	b	c
XRK1040A series	5.4	12	4.5

■ Features/特長

- Metal composite type winding inductor made of metallic magnetic material suitable for power supply circuit
- High current、Low DCR、Realize miniaturization
- Magnetic shield、Low EMI
- Environmental temperature doesn't cause a lot of change in DC superposition characteristic
- Operating Temperature: -40 to +150°C (Including Self-heating)
- AEC-Q200 compliant、Lead Free、RoHS compliant

■ Application/用途

- Distributed Power System PDA / Note PCs / Desktop / Server application DC / DC converter
- DC/DC conversion circuits
- Large current POL(Point of Load) power supplies
- communications devices, medical devices, etc.
- compact power supply modules

■ Specifications/電気の仕様

Part Number	L(μH) ±20%	DC Resistance 直流抵抗 (mΩ)		DC saturation allowable current 直流重量許容電流 (A) ※1	Temperature rise allowable current 温度上昇許容電流 (A) ※2
		typical	max.		
XRK1040A-R20M	0.2	0.63	0.72	40	33
XRK1040A-R36M	0.36	1.04	1.2	33	26
XRK1040A-R45M	0.45	1.07	1.23	32	25
XRK1040A-R47M	0.47	1.10	1.27	35	28.5
XRK1040A-R56M	0.56	1.56	1.80	24	22.5
XRK1040A-R90M	0.9	2.17	2.5	22	20
XRK1040A-1R0M	1.0	2.95	3.3	20	16
XRK1040A-1R5M	1.5	3.8	4.2	17	14
XRK1040A-2R2M	2.2	6.0	7.0	16	10.5
XRK1040A-3R3M	3.3	10.8	11.8	11.5	8.2
XRK1040A-4R7M	4.7	15	18	9.0	6.5
XRK1040A-5R6M	5.6	14	17	9.0	6.6
XRK1040A-6R8M	6.8	16	19	9.0	6.4
XRK1040A-100M	10	27	30	6.0	5.0
XRK1040A-150M	15	45	50	6.8	3.8
XRK1040A-220M	22	58	65	6.0	3.2
XRK1040A-330M	33	92	105	4.8	2.8
XRK1040A-470M	47	165	181	3.6	1.9
XRK1040A-680M	68	190	210	3.0	1.7
XRK1040A-820M	82	215	240	2.6	1.6
XRK1040A-101M	100	270	300	2.0	1.5

Measurement Frequency for Inductance : 100kHz

※1 DC Saturation allowable Current : This indicates the actual value of DC current when the inductance becomes 20% lower than its initial value.

※2 Temperature Rise current : The actual current when temperature of coil becomes ΔT=30°C (Ta=20°C)

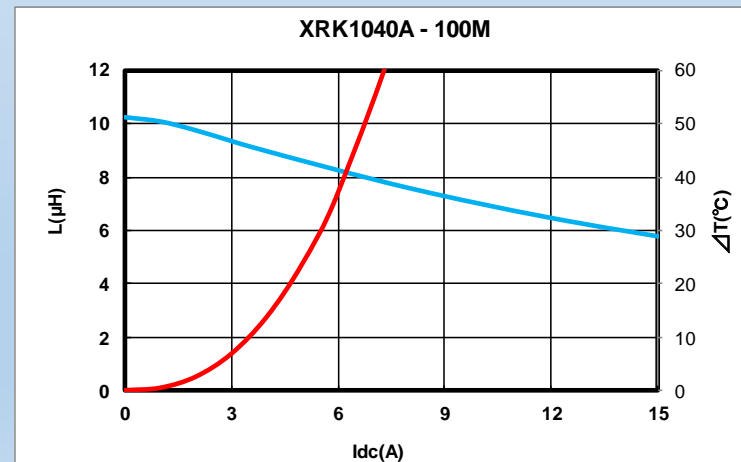
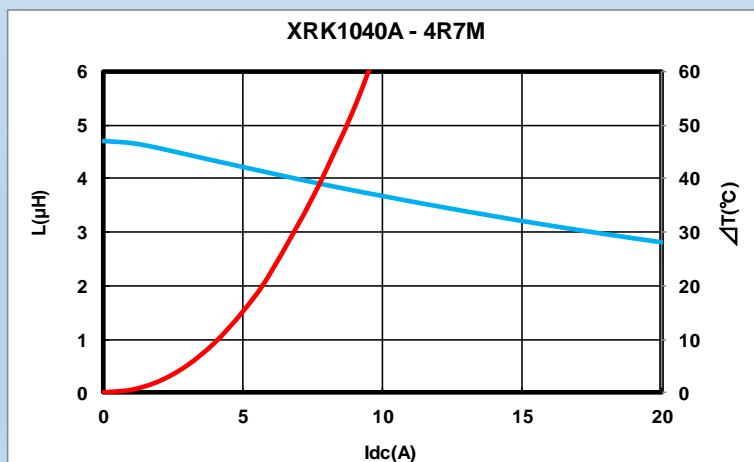
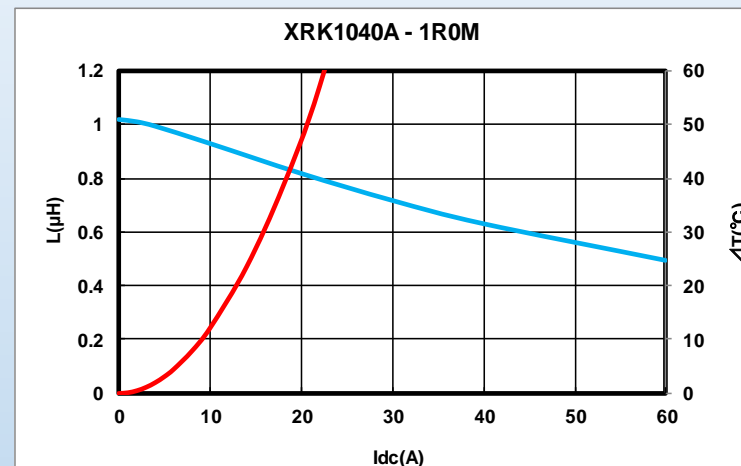
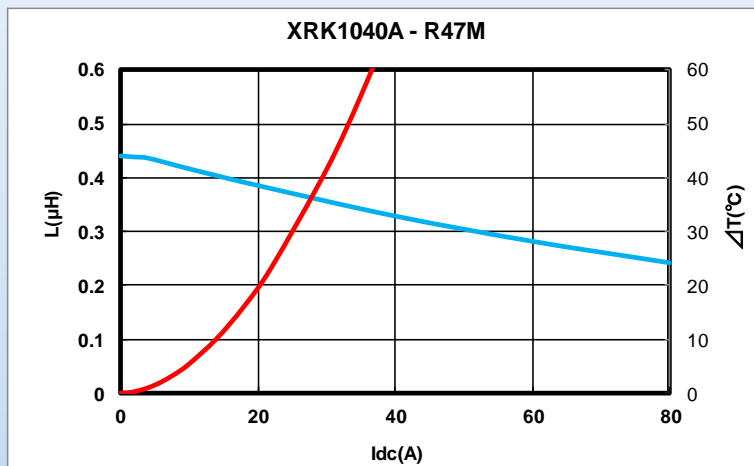
➤ Metal Power Inductor For Power Source (10mm x 4mm Automotive grade)



サガミエレクトロニクス株式会社
SAGAMI ELEC. CO., LTD.

■ Current Characteristic

— Inductance(20°C)
— Temp. Rise



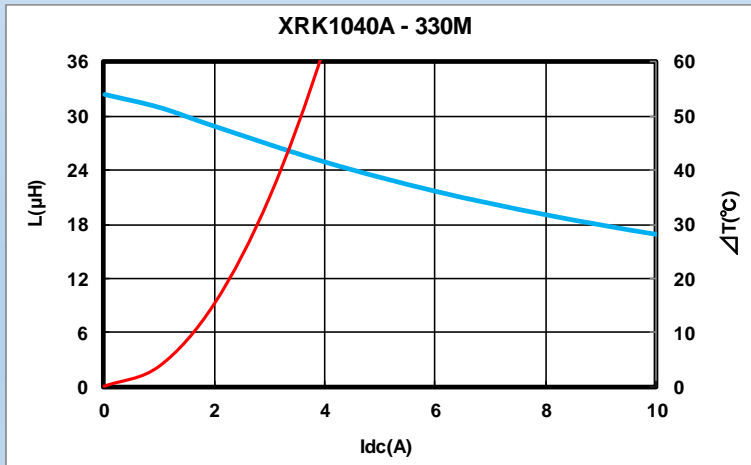
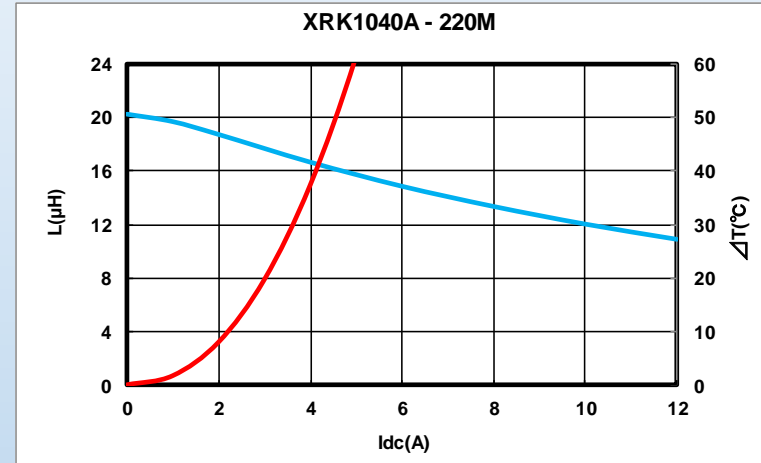
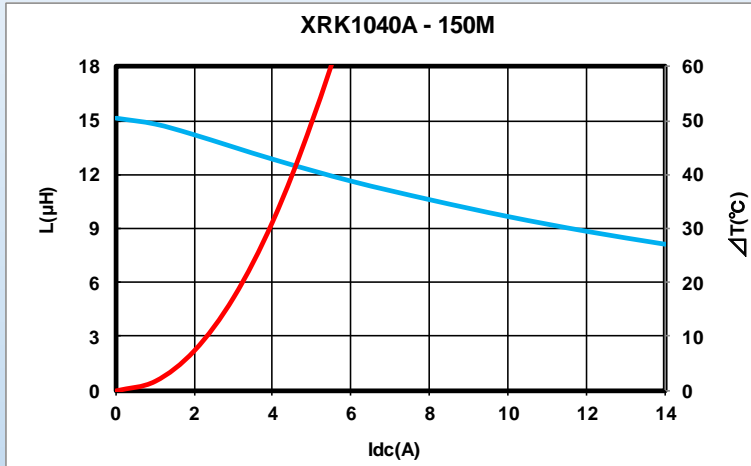
➤ Metal Power Inductor For Power Source (10mm x 4mm Automotive grade)



サガミ エレク株式会社
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■Current Characteristic

- Inductance(20°C)
- Temp. Rise



➤ Metal Power Inductor For Power Source (10mm x 4mm Automotive grade)

■ Typical L vs Frequency

