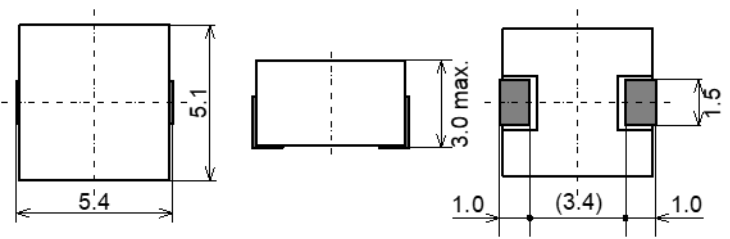
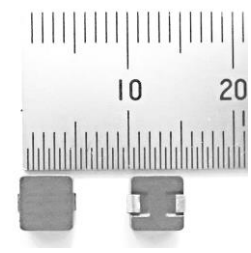


# ➤ Metal Power Inductor For Power Source (5.0mm x 3mm Automotive grade)

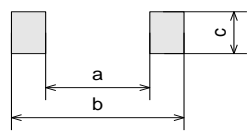
## ■ Dimensions (mm)



## ■ Appearance



## ■ Recommended Land Pattern



Type	a	b	c
XRK0530A series	2.5	5.9	2.0

## ■ Features

- 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

- 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

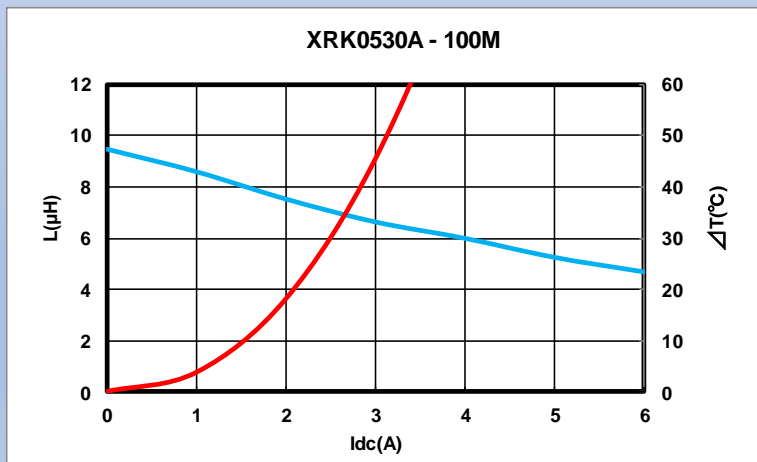
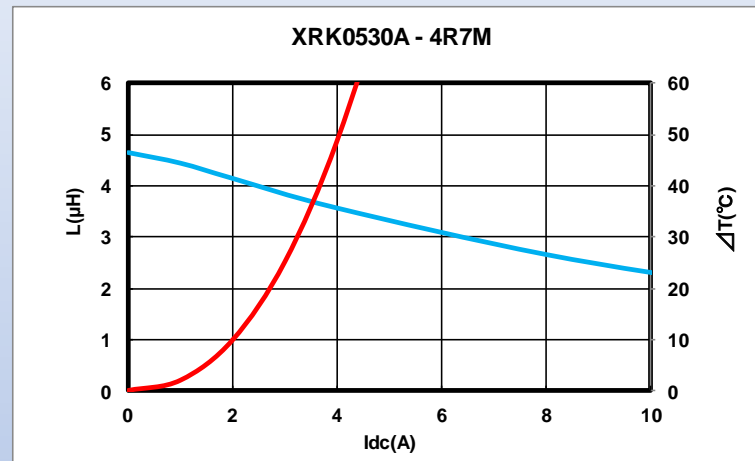
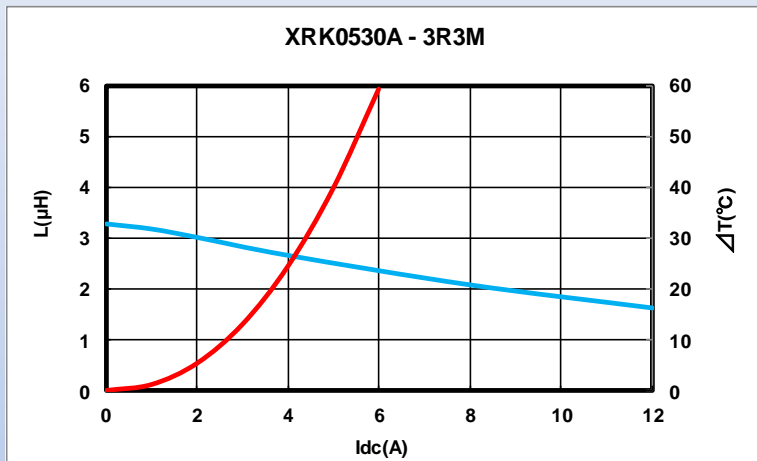
Part Number	L(μH) ±20%	DC Resistance (mΩ)		DC saturation allowable current (A) ※ 1	Temperature rise allowable current (A) ※ 2
		typical	max.		
XRK0530A-R20M	0.2	2.1	2.3	18	15.8
XRK0530A-R22M	0.22	2.1	2.3	24	15.8
XRK0530A-R33M	0.33	3.9	4.3	16	11.8
XRK0530A-R35M	0.35	3.9	4.3	15	11.8
XRK0530A-R47M	0.47	6.5	7.2	12	9.2
XRK0530A-R68M	0.68	8.2	9.1	12	8.0
XRK0530A-R75M	0.75	8.5	9.4	12	7.8
XRK0530A-1R0M	1.0	10.4	11.4	8.5	7.1
XRK0530A-1R5M	1.5	17.1	18.5	6.8	5.2
XRK0530A-2R2M	2.2	22.5	25.0	6.4	4.5
XRK0530A-3R3M	3.3	36.4	40.4	5.6	3.8
XRK0530A-4R7M	4.7	54.0	60.0	4.2	3.1
XRK0530A-5R6M	5.6	63.0	70.6	4.0	2.8
XRK0530A-6R8M	6.8	81.0	97.2	3.8	2.3
XRK0530A-100M	10	90.0	108.0	2.3	2.4

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)

■ Current Characteristic

— Inductance(20°C)  
— Temp. Rise



■ Typical L vs Frequency

