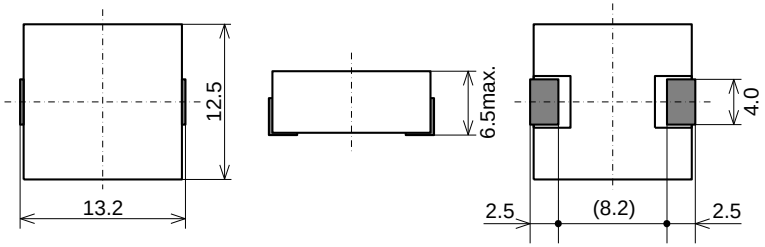
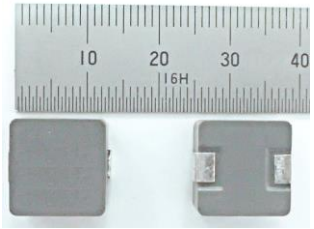
➢ Metal Power Inductor For Power Source **(13mm x 6.5mm Automotive grade)**

サガミ エレク株式会社
SAGAMI ELEC CO., LTD.

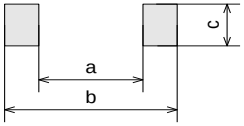
■ Dimensions (mm)/外形寸法図



■ Appearance/外観



■ Recommended Land Pattern



Type	a	b	c
XRK1365A series	7.4	13.8	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℃ (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/電気的仕様

Part Number	L(μH) ±20%	DC Resistance (mΩ) typical	DC Resistance (mΩ) max.	DC saturation allowable current (A) ※1	Temperature rise allowable current (A) ※2
XRK1365A-R22M	0.22	0.58	0.70	100	48
XRK1365A-R33M	0.33	0.83	0.92	72	44
XRK1365A-R47M	0.47	0.90	1.05	72	36.5
XRK1365A-1R0M	1.0	1.65	1.77	30	28.0
XRK1365A-1R2M	1.2	1.98	2.12	28	21.8
XRK1365A-1R5M	1.5	2.10	2.35	26	20.5
XRK1365A-1R8M	1.8	2.75	2.94	25	19.1
XRK1365A-2R2M	2.2	2.96	3.3	22	17.6
XRK1365A-3R3M	3.3	3.7	4.3	20	15.6
XRK1365A-4R7M	4.7	6.7	7.5	15	11.0
XRK1365A-5R6M	5.6	7.5	9.0	17	10.0
XRK1365A-6R8M	6.8	10.0	11.0	20	9.0
XRK1365A-7R8M	7.8	10.0	11.5	16	8.8
XRK1365A-8R2M	8.2	11.5	13.0	13	8.2
XRK1365A-100M	10	15.5	17.5	12	6.3
XRK1365A-120M	12	17.0	19.0	11	6.1
XRK1365A-150M	15	22.0	25.0	10	5.5
XRK1365A-220M	22	31.3	35.0	8	4.8
XRK1365A-330M	33	42.0	45.0	6	4.7
XRK1365A-560M	56	55.0	65.0	4.6	4.6

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.

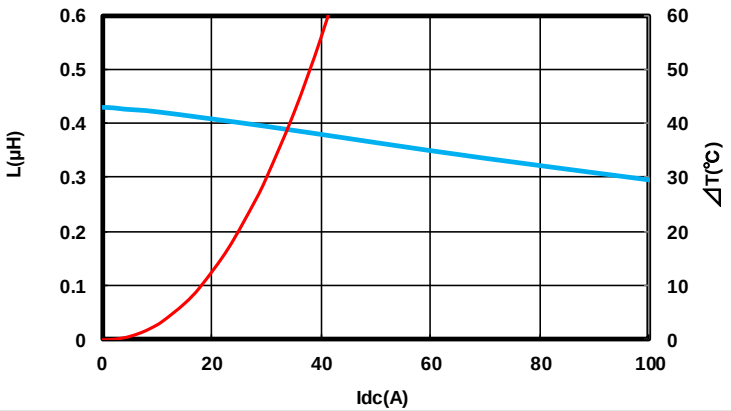
※2 Temperature Rise current : The actual current when temperature of coil becomes ΔT=30℃（Ta=20℃）

サガミ エレク株式会社
SAGAMI ELEC CO., LTD.

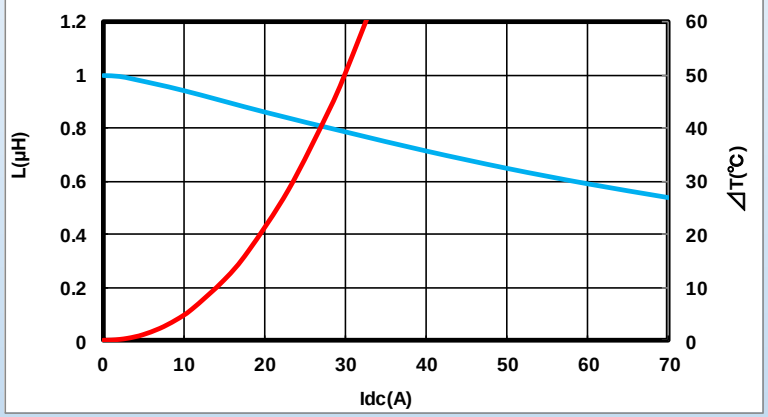
■Current Characteristic

Inductance(20℃)
Temp. Rise

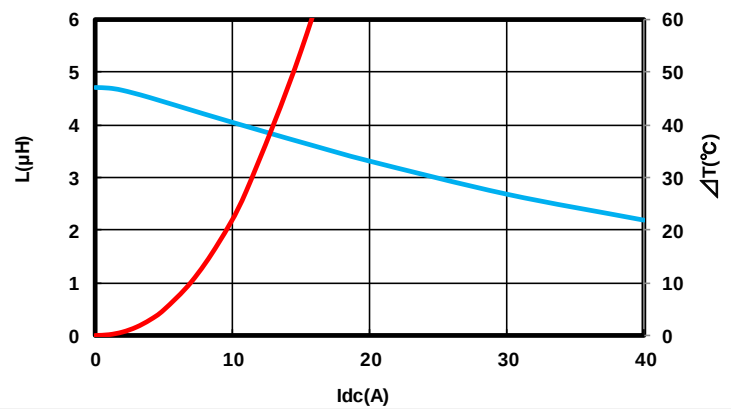
XRK1365A - R47M



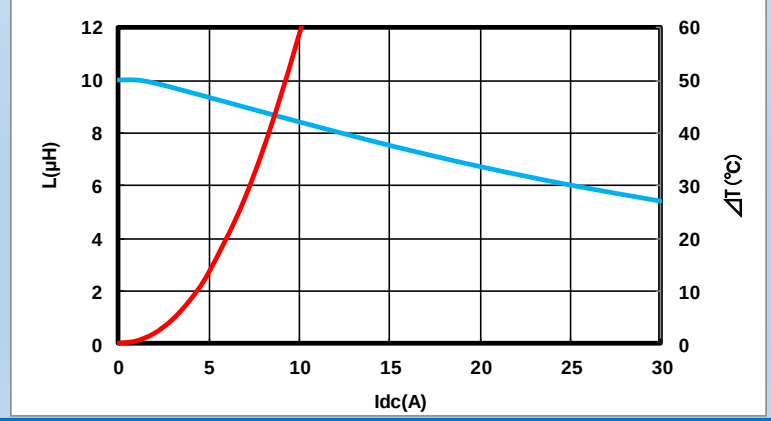
XRK1365A - 1R0M



XRK1365A - 4R7M



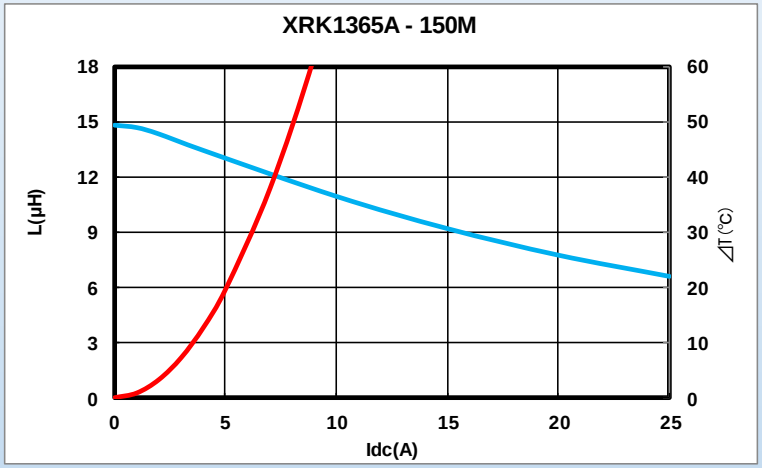
XRK1365A - 100M

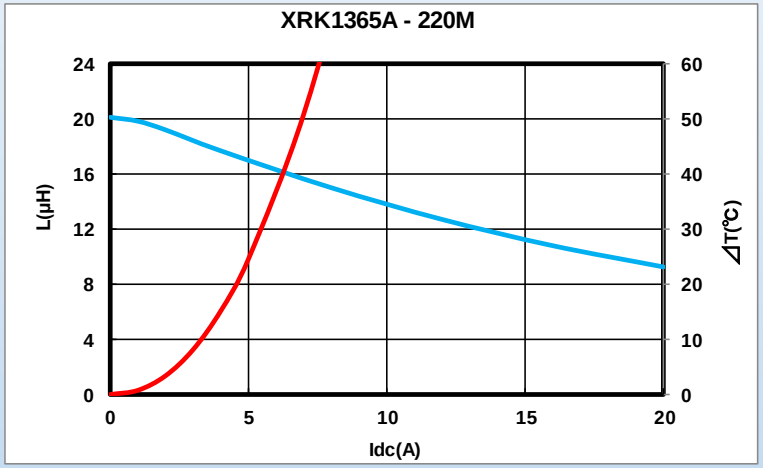


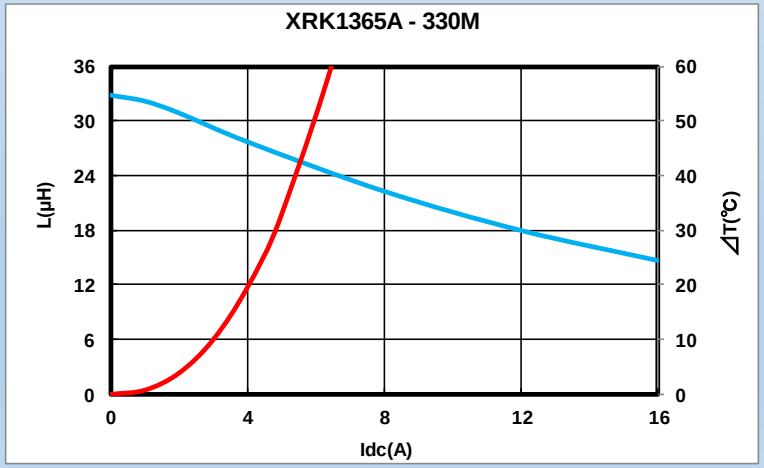
サガミ エレク株式会社
SAGAMI ELEC CO., LTD.

■Current Characteristic

Inductance(20℃)
Temp. Rise







サガミ エレク株式会社
SAGAMI ELEC CO., LTD.

■Typical L vs Frequency