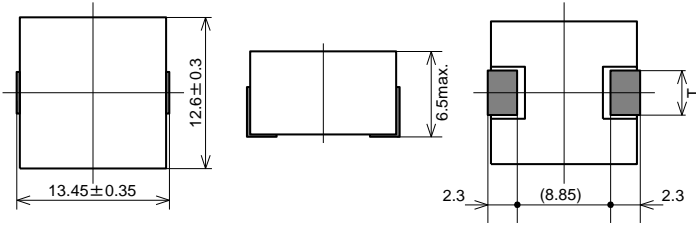


# ➤ Metal Power Inductor For Power Source (13mm x 6.5mm Automotive grade)



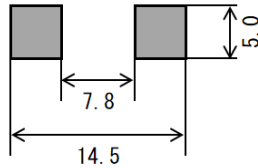
サガミエレクトロニクス株式会社  
SAGAMI ELEC CO., LTD.

## ■ Dimensions (mm)



Inductance	T
0.22~0.47 $\mu$ H	4.4
0.68~3.3 $\mu$ H	3.68
4.7~56 $\mu$ H	4.7

## ■ Recommended Land Pattern



## ■ Features

- Metal composite type winding inductor made of metallic magnetic material suitable for power supply circuit
- 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

## ■ Appearance



## ■ Specifications

Part Number	L[ $\mu$ H] $\pm$ 20%	DC Resistance[m $\Omega$ ]		DC saturation allowable current [A] ※1	Temperature rise allowable current [A] ※2
		typical	max		
XRK1365B-R22M	0.22	0.46	0.6	100	44
XRK1365B-R33M	0.33	0.58	0.69	70	42
XRK1365B-R47M	0.47	0.73	0.87	56	37
XRK1365B-R68M	0.68	1.28	1.48	46	29
XRK1365B-1R0M	1.0	1.49	1.75	34	26
XRK1365B-1R2M	1.2	1.78	2.1	30	22.5
XRK1365B-1R5M	1.5	2.04	2.4	25	21
XRK1365B-1R8M	1.8	2.55	2.94	24	19
XRK1365B-2R2M	2.2	2.62	3.1	23	18.5
XRK1365B-3R3M	3.3	3.55	4.1	18	16.5
XRK1365B-4R7M	4.7	6.25	7.25	20	13
XRK1365B-5R6M	5.6	7.21	8.3	18	12
XRK1365B-6R8M	6.8	9.5	11.5	15	10
XRK1365B-7R8M	7.8	10.25	11.78	16	10
XRK1365B-8R2M	8.2	10.3	11.85	14	10
XRK1365B-100M	10	15	17.2	13.5	8.3
XRK1365B-120M	12	16.41	18.9	12.5	8
XRK1365B-150M	15	20.3	23.4	11	7
XRK1365B-220M	22	28.8	33.1	8	6
XRK1365B-330M	33	40.8	45	7.5	5
XRK1365B-560M	56	55	65	4.3	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  $\Delta T=30^{\circ}\text{C}$  ( $T_a=20^{\circ}\text{C}$ )