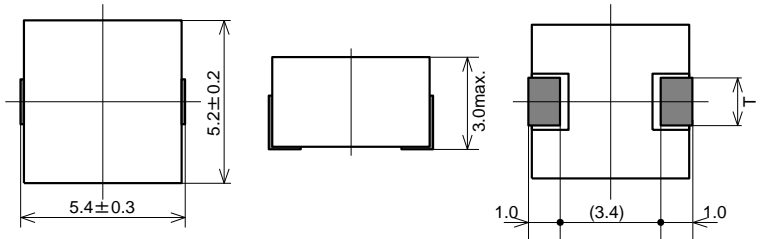


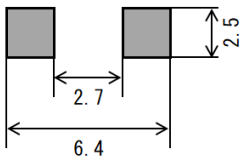
# ➤ Metal Power Inductor For Power Source (5.0mm x 3mm Automotive grade)

## ■ Dimensions (mm)



Inductance	T
0.22~0.35 $\mu$ H	1.5
0.2, 0.47~10 $\mu$ H	2.3

## ■ 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		
XRK0530B-R20M	0.2	1.6	2.0	20	20.5
XRK0530B-R22M	0.22	2.1	2.3	23	15.8
XRK0530B-R33M	0.33	2.9	3.4	16	14
XRK0530B-R35M	0.35	2.9	3.4	15	14
XRK0530B-R47M	0.47	5.3	6.1	12	11
XRK0530B-R68M	0.68	6.9	8.0	12	10
XRK0530B-R75M	0.75	6.6	7.7	11.5	10
XRK0530B-1R0M	1.0	10.0	11.4	8.5	8.4
XRK0530B-1R5M	1.5	15.4	17.7	8.5	6.2
XRK0530B-2R2M	2.2	20.0	23.0	6.4	5.5
XRK0530B-3R3M	3.3	32.0	38.0	6.5	4.7
XRK0530B-4R7M	4.7	41.0	47.0	6	4.1
XRK0530B-5R6M	5.6	51.0	59.0	4.5	3.6
XRK0530B-6R8M	6.8	61.0	70.0	4	3.3
XRK0530B-100M	10	90.0	108.0	2.3	2.8

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  $\Delta T=30^{\circ}C$  ( $T_a=20^{\circ}C$ )