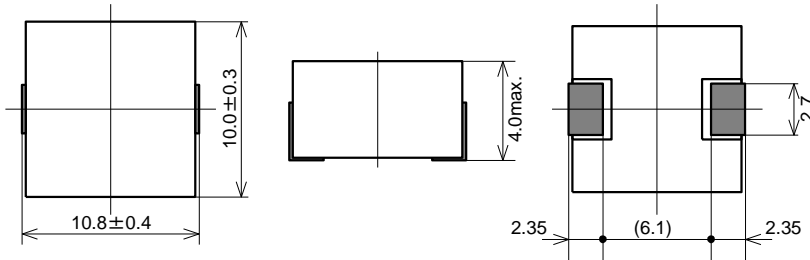
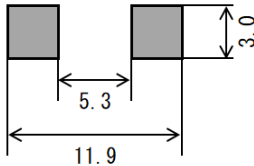


➤ Metal Power Inductor For Power Source (10mm x 4mm Automotive grade)

■ Dimensions (mm)



■ 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 $+150^{\circ}\text{C}$ (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[μH] $\pm 20\%$	DC Resistance[m Ω]		DC saturation allowable current [A] ※1	Temperature rise allowable current [A] ※2
		typical	max		
XRK1040B-R20M	0.2	0.63	0.72	60	36
XRK1040B-R36M	0.36	1.04	1.2	33	26
XRK1040B-R45M	0.45	1.07	1.23	40	25
XRK1040B-R47M	0.47	1.1	1.27	35	25
XRK1040B-R56M	0.56	1.56	1.8	24	22.5
XRK1040B-R90M	0.9	2.17	2.5	22	20
XRK1040B-1R0M	1.0	2.7	3.1	25	17
XRK1040B-1R5M	1.5	3.8	4.2	22	14
XRK1040B-2R2M	2.2	6	7	16	10.5
XRK1040B-3R3M	3.3	9.9	11.4	11.5	8.2
XRK1040B-4R7M	4.7	13.2	15	10.8	8
XRK1040B-5R6M	5.6	14	17	9	7.7
XRK1040B-6R8M	6.8	16	19	9	7.5
XRK1040B-100M	10	27	30	6	5.5
XRK1040B-150M	15	40	45	4.6	4.7
XRK1040B-220M	22	58	65	4.6	3.8
XRK1040B-330M	33	89	102	4.6	3
XRK1040B-470M	47	147	165	3.6	2.3
XRK1040B-680M	68	190	210	3	2.2
XRK1040B-820M	82	215	240	2.6	1.9
XRK1040B-101M	100	240	278	2.5	1.8

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