

## ◆ MAJOR USES

- Zero-phase reactor
- Common mode noise filter for AC/DC

## ◆ FEATURES

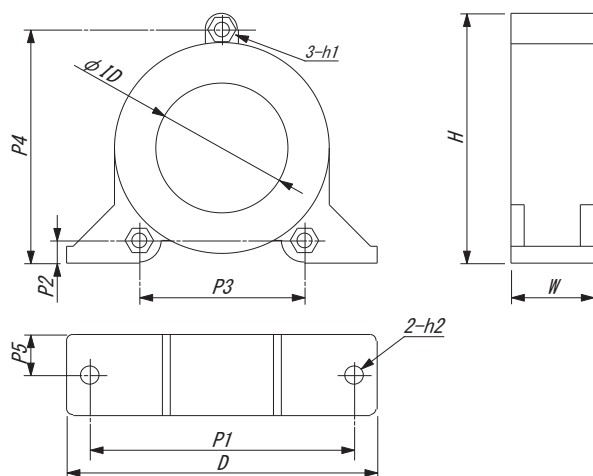
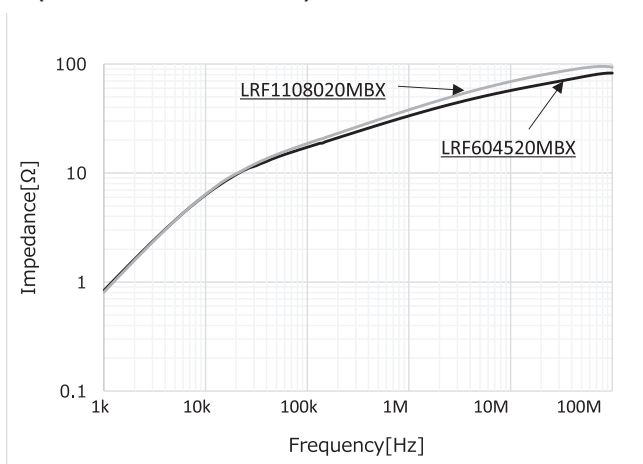
- Case with a hole to secure the chassis
- High impedance in spite of a small number of turns
- Excellent temperature characteristics



Core Part No.	Cross Sectional Area [cm <sup>2</sup> ]	Magnetic Path Length [cm]	Inductance Coefficient (AL Value [μH/N <sup>2</sup> ] at 0A)		Applicable screws	
			10kHz	100kHz	h1	h2
LRF604520MBX	1.2typ.	16.4typ.	77.0typ.	13.0typ.	M4	M5
LRF1108020MBX	2.2typ.	30.0typ.	85.0typ.	15.0typ.	M5	M6

Core Part No.	Outside Dimensions								
	D [mm]	φID [mm]	H [mm]	W [mm]	P1 [mm]	P2 [mm]	P3 [mm]	P4 [mm]	P5 [mm]
LRF604520MBX	95max.	39.5min.	78max.	26max.	80±0.5	7±0.5	50±0.5	72±0.5	12.5±0.3
LRF1108020MBX	181max.	74min.	131max.	26max.	150±0.5	20±0.5	100±0.5	124±0.5	12.5±0.3

## ◆ DIMENSIONS OF CORE

◆ FREQUENCY - IMPEDANCE CHARACTERISTICS  
(NUMBER OF TURNS 1T) AMBIENT TEMPERATURE: 25°C



# AMORPHOUS CHOKE COILS

## KA Series



### MAJOR USES

- Noise filter for power source and automotive electrical unit

### FEATURES

- Low D.C. resistance due to the lead wire going through the core.
- Use of a Fe-base amorphous core for excellent operational stability at high temperatures.
- Surface-mount product for automotive.
- Significantly improved safety and reliability because layer short circuits will not occur and because the leakage magnetic flux is extremely small.

### GENERAL SPECIFICATIONS

Items	KA Series
Operating temperature range <sup>*1</sup>	-40 to 150°C

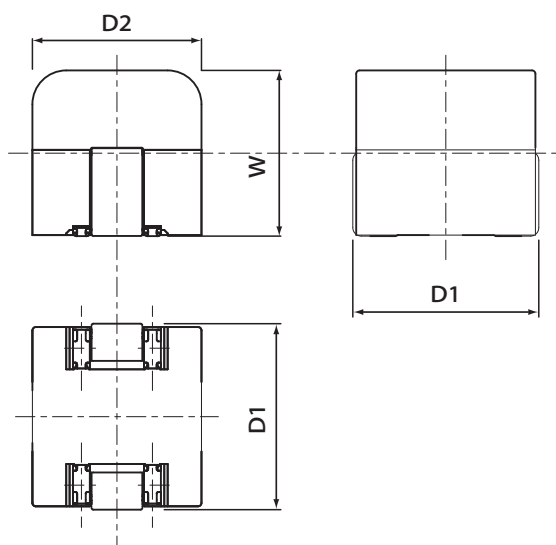
<sup>\*1</sup> Temperature on the coil surface including the temperature rise during installation.  
Never use the coil at a temperature exceeding the rated temperature range.

### COIL STANDARD SPECIFICATIONS

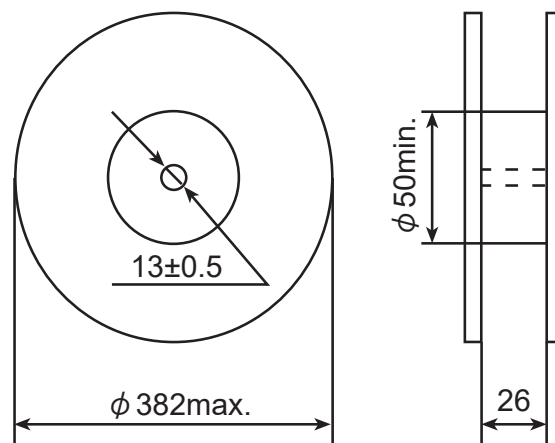
Coil Part No.	Rated Current [A]	Inductance (20kHz)		D.C.R. mΩ (max)	Winding mm φ-lines	Outside Dimensions			D.C. BIAS CHARACTERISTICS Graph
		0A [μH]	Rating [μH]			D1 [mm]	D2 [mm]	W [mm]	
LKKA0200R5K1FF0E	20	0.7	0.5	0.78	-	11.0	10.5	10.3	1
LKKA0200R4K1DF0E	20	0.5	0.4	0.78	-	11.0	10.5	10.3	
LKKA0300R3K1CF0E	30	0.4	0.3	0.78	-	11.0	10.5	10.3	

\* The inductance at current 0[A] indicates the reference value.

### STANDARD DIMENSION DIAGRAM (mm)



### REEL DIMENSIONS [mm]





- Always read "Notes on Use" before using the product in order to enable you to use the product correctly and prevent any faults and accidents from occurring.
- Request the Product Specification on the product of NIPPON CHEMI-CON CORPORATION to refer to it as well as this brochure prior to the order of the products. Some specific notes on use of the ordered product may be described in the specifications.
- The products listed in this catalog are designed and manufactured for general electronics equipment use and are not intended for use in applications that can adversely affect human life; where the malfunction of equipment may cause damage to life or property. In addition, our products are not intended to be used in specific applications that may cause a major social impact. Please consult with us in advance of usage of our products in the following listed applications. ① Aerospace equipment ② Power generation equipment such as thermal power, nuclear power etc. ③ Medical equipment ④ Transport equipment (automobiles, trains, ships, etc.) ⑤ Transportation control equipment ⑥ Disaster prevention / crime prevention equipment ⑦ Highly publicized information processing equipment ⑧ Submarine equipment ⑨ Other applications that are not considered general-purpose applications.
- The circuits described as examples in this catalog and the "delivery specifications" are featured in order to show the operations and usage of our products, however, this fact does not guarantee that the circuits are available to function in your equipment systems. We are not in any case responsible for any failures or damage caused by the use of information contained herein. You should examine our products, of which the characteristics are described in the "delivery specifications" and other documents, and determine whether or not our products suit your requirements according to the specifications of your equipment systems. Therefore, you bear final responsibility regarding the use of our products.  
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- We reserve the right to discontinue production and delivery of products. We do not guarantee that all the products included in this catalog will be available in the future.  
The aforementioned does not apply in the case of individual agreements deviating from the foregoing for customer-specific products
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In addition, we have an established system with enhanced traceability, therefore we will limit the applicable lot items for any potential compensation.

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