

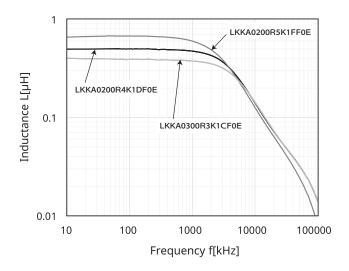


◆ D.C. BIAS CHARACTERISTICS

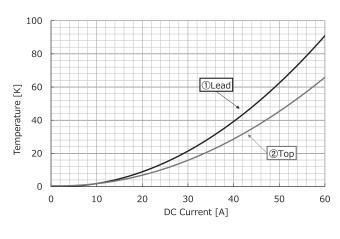
• Frequency : 20[kHz]

Gragh-1 0.80 0.70 0.60 LKKA0200R4K1DE0E LKKA0200R5K1FF0F Inductance L[µH] 0.50 0.40 0.30 LKKA0300R3K1CF0E 0.20 0.10 0.00 0 D.C Current I[A]

♦ FREQUENCY - INDUCTANCE CHARACTERISTICS



♦ SELF-HEATING TEMPERATURE CHARACTERISTICS ♦ PRODUCT OUTLINE DRAWING



◆ PRODUCT OUTLINE DRAWING HEAT GENERATION MEASUREMENT POINTS



^{*} These temperature characteristics are based on our measurement conditions. (Our measurement conditions: Room temperature approx. 23°C, windless, single unit without board.)

Common to the following three-part numbers: LKKA0200R5K1FF0E, LKKA0200R4K1DF0E, and LKKA0300R3K1CF0E.

AMORPHOUS CHOKE COILS





♦MAJOR USES

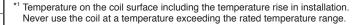
•Noise filter for power source and automotive electrical unit

◆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
- Automotive grade models
- •Significantly improved safety and reliability because layer short circuits will not occur and because the leakage magnetic flux is extremely small

◆GENERAL SPECIFICATION

Items	SM Series				
Operating temperature range*1	-40 to 150°C -40 to 150°C 20 to 95%RH 20 to 80%RH 20kHz to 500kHz Type F (155°C)				
Storage temperature range					
Operating humidity range					
Storage humidity range					
Operating frequency range*2					
Insulating Type (Housing case)					
Incombustibility (Housing case)	UL94V-0				

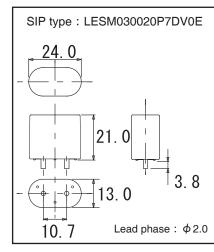


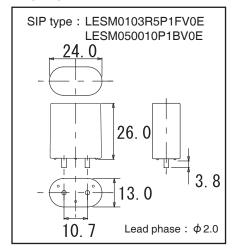
*	² Recommended range.
	When infra-acoustic frequency component is impressed, a beat sound sometimes
	occurs.

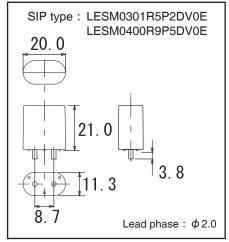
	Rated Current [A]	Inductance (20kHz)		D.C.R.	Winding	Outside Dimensions			D.C. BIAS
Coil Part No.		0Α [μΗ]	Rating [µH]	mΩ (max)	mm φ-lines	D1 [mm]	D2 [mm]	W [mm]	CHARACTERISTICS Graph
LESM030020P7DV0E	30	2.2	1.9	0.40	2.0-1P	24.0	13.0	21.0	1
LESM0103R5P1FV0E	10	3.7	3.5			24.0	13.0	26.0	
LESM050010P1BV0E	50	2.4	1.2						
LESM0301R5P2DV0E	30	2.3	1.3	0.36	2.0-1P	20.0	11.3	21.0	2
LESM0400R9P5DV0E	40	1.5	0.9						

 $^{^{\}star}$ The inductance at current 0[A] indicates the reference value.

◆STANDARD DIMENSION DIAGRAM (mm)













NANOCRYSTALLINE/AMORPHOUS/DUST CHOKE COILS

- 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.
 - Please make sure that you take appropriate safety measures such as use of redundant design and malfunction prevention measures in order to prevent fatal accidents and/or fires in the event any of our products malfunction.
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 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.

Accessory
Standard Specifications • Precautions and Guidelines
Minimum Order Quantity
Characteristics
Coil Design Request