

2025

CERAMIC CAPACITORS VARISTORS CHOKE COILS

CAT.NO.E1002E / E1006H / E1008Z





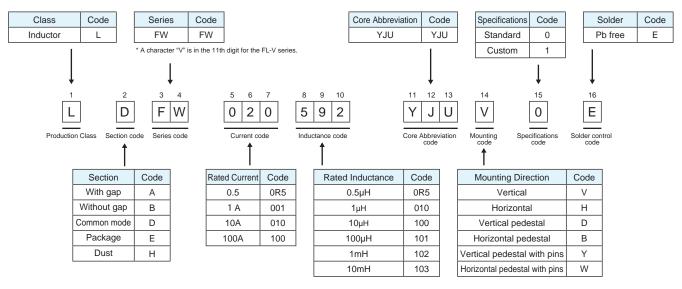
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Series	Major uses	Miniaturization	Low	Large capacity	Classification	Page
FW						
FL-V	Common mode noise filter for AC/DC	0	0		Common mode	119
FL						
KA	Noise filter for power source and				Package	146
SM	automotive electrical unit				Package	140
CM	For Switching Mode Power Supply					150
CMJ	Normal mode noise filter				Toroidal with gan	150
AM	For PFC	0 0 0		0	Toroidal with gap	158
AW	Normal mode noise filter	0	0	0		162
TM	For Switching Mode Power Supply	Power Supply O			Toroidal without	164
ВМ	Normal mode noise filter	0	0		gap	170
DM	For PFC For Switching Mode Power Supply	0	0	0	Dust	175

GLOBAL CODE SYSTEM



The part numbers indicated in this catalog are of upright-type products.

If you require the part numbers for lying types, pedestals, or pedestals with pins, please contact our information counter.

Please visit our website for specification details of our various products.

Amorphous metal and NIPPON CHEMI-CON Amorphous Choke Coil

The amorphous metal has non crystalline structure generated by cooling molten metal rapidly.

Due to the amorphous structure, the amorphous metal has excellent magnetic, mechanical, and chemical features in comparison with conventional metallic substances.

NIPPON CHEMI-CON started developing amorphous components for electronic and electric equipment by making full use of the material and process technologies at its early stages and has continued the synthetic research and development to optimally match the amorphous choke coils with the material features and their applications through a variety of characteristics. NIPPON CHEMI-CON will help the customers design smaller and higher performance products by supplying excellent amorphous choke coils through the sophisticat ed production technology and manufacturing know-how.

STANDARD SPECIFICATIONS

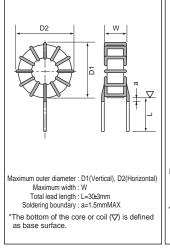
◆General Specification of Toroidal Coil

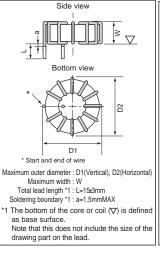
Items	Rated values of Amorphous coils and Nanocrystalline coils	Dust coils Rated value					
Operating temperature range *1	-40 to 130℃	-40 to 120°C (Coating type) -40 to 130°C (Case type)					
Storage temperature range	-40 to 130℃	-40 to 120°C (Coating type) -40 to 130°C (Case type)					
Operating humidity range *1	20 to 9	5%RH					
Storage humidity range	20 to 8	80%RH					
Operating frequency range *2	20kHz to	500kHz					
Temperature rise *3	40K c	or less					
Insulation type	Type B (130°C)	Type A(105℃) Coating type Type B(130℃) Case type					
Incombustibility	UL 94 V-0						

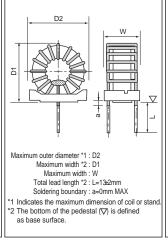
- *1 Temperature on the coil surface including the temperature rise in installation. Never use the coil at a temperature exceeding the rated temperature range.
- *2 Recommended range. When infra-acoustic frequency component is impressed, a beat sound sometimes occurs.
- *3 The temperature rise on the coil surface at the rated d.c. current.
- The allowable tolerance of various rated inductance is as follows:
 - · AMORPHOUS CHOKE COILS: ±25%
 - · DUST CHOKE COILS: ±20%

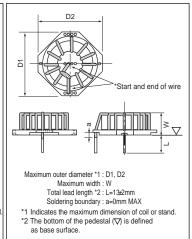
Note carefully that the temperature of the core may exceed the operating temperature range depending on the circumference condition even if the coil is used in the specification ranges described above.

◆DIMENSIONS











Notes on Use

- •The indicated heat-resistant temperatures are the guaranteed temperatures including coil self-generated heat.
- •In high-temperature,-humidity environment, There is a possibility to occur hydrolyze and insulation deterioration.
- •Common mode coils, by the unbalanced current, it may cause a magnetic saturation.
- •We do not acquire safety standards with coil only.
- Ensure that you do not repeatedly apply excessive force to the lead wires or repeatedly bend them.
- Do not bang the coil against hard objects. Scratch on the coating, possibly impairing performance.
- Contact NIPPON CHEMI-CON for how to clean the substrate on which the coil is mounted.
- When infra-acoustic frequency component is impressed, a beat sound sometimes occurs.
- The products described in this catalog have been designed and manufactured for general electronic devices, therefore, if you intend to use our products for purposes that may endanger or threaten human lives and cause damage to property if such electronic devices fail or malfunction, or have a significant impact on society, please contact our information counter in advance to consult with us before using our products.
- Response to the Substances of Concern
- (1) Nippon Chemi-Con aims for developing products that meet laws and regulations concerning substances of concern. (Some products may contain regulated substances for exempted application.) Please contact us for more information about law-compliance status.
- (2) According to the content of REACH handbook (Guidance on requirements for May 2008), our electronic components are "articles without any intended release". Therefore they are not applicable for Registration for EU REACH Regulation Article 7 (1). Reference: Electrolytic Condenser Investigation Society
 - Study of REACH Regulation in EU about Electrolytic Capacitor (publicized on 13 March 2008)

Inductor (Coil) AEC-Q200 Compliance

The Automotive Electronics Council (AEC) was originally established by major American automotive related manufactures. Today, it is composed of representatives from the manufacturing companies in automotive electronic devices and components. It standardizes the certification criteria and reliability tests for electronic components.

AEC-Q200 is the reliability test standard for approval of passive components in automotive applications. It specifies the test type, parameters, quantity, etc. for each component. The criteria used in reliability tests for "Inductors(Coils/Cores)" are described in this standard.

Pursuant to the customer's specific testing requirements, Chemi-Con submits the test results according to AEC-Q200 for Inductors(Coils/Cores) used in automotive applications on request.

An electronic component manufacturer cannot simply claim that their product is "AEC-Q200 Qualified". Instead, the manufacturer may claim their components as "Compliant", "Capable", "Available", etc.

Each component must be tested depending on the customer's "Qualification Test Plan" in order to claim AEC-Q200 Qualification.

The standard products listed in the catalog are designed for general electronic equipment. If you are considering using the products for automotive use, it may be necessary to change the specifications. Please contact our sales representative for more information.

RELIABILITY TEST CONDITIONS (Environmental Testing)

The reliability of products are tested under the following conditions. (Not including some cut cores)

TEST TITLE	COMPLIANT STANDARD		CONDITIONS								
Vibration (Sinusoidal)	JISC 60068-2-6	Amplitude: 1.5mm Frequency Range: 10-55Hz (1 minute/sweep cycle) Test Duration: Total 6 hours (2 hours each per X·Y·Z axis)									
Free Fall	JISC 60068-2-32	Three consecutive drops from 1m height onto veneer plywood (width 10mm)									
Cold	JISC 60068-2-1	Temperature: -25°C 500 hours									
Dry Heat	JISC 60068-2-2	Temperature: 120°C 500 h									
Damp Heat, Steady State	JISC 60068-2-3	Temperature: 55°C Relative Humidity: Test Duration: 500									
		Temperature	Conditioning Times								
Change of		-25°C	30 minutes								
Temperature	JISC 0025	Room Temperature	Less than 1 minute								
3		+120°C	30 minutes	Number of cycles: 25							
		Room Temperature	Less than 1 minute	radifiber of cycles. 25							

CUSTOM DESIGN CONDITIONS

Nippon Chemi-Con's amorphous choke coils are available in a wide variety of standard products, but we also offer custom-made products upon request. Here, we will introduce how our choke coils are designed, with reference to various data listed in the catalog.

1 Required Specifications for Choke Coil

Rated Inductance	Ln	[μH]
Rated Current	l n	[A]
Voltage across coil	Vο	[V]
Conversion Frequency	fsw	[kHz]

2 Selection of Core

With reference to the graph of "Coil Volume and Energy Product" (Fig. 1), select a core with a similar energy product. The required energy product is calculated as below.

(3) Determining the Number of Turns

The specifications of the selected cores are listed at the beginning of each series. Find the inductance coefficient (AL value) from the core specification table and determine the number of turns (N).

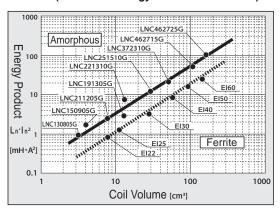
$$N = \sqrt{L_n / A_L}$$

(4) Determining Diameter of Winding

As a guide, the current density is around 6 [A / mm²] with respect to the effective value (Irms) of the current flowing through the choke coil.

Irms	Diameter
2 A	0.6mmφ
3 A	0.8mm
5 A	1.0 m m
8 A	1.3 m m
10 A	1.0mmx2P

◆ Fig.1 Relationship between Coil Volume and Energy Product (Amount of energy that can be handled)



(5) Confirming the Winding

Check if the winding specifications set in 3 and 4 can be applied to the core. When winding is possible, the winding space factor is 30% or less. It is important to confirm the winding based on actual performance.

Winding Space Factor =
$$\frac{\text{(Winding Diameter)}^2}{\text{(Inner Diameter of Core Exterior)}^2} \times \text{# of Turns x } 100[\%]$$

If winding is not possible, reselect larger core size or choose from another series.

(6) Calculation of Core Loss

Calculate the magnetic flux density (\triangle Bp-p, [mT]) from the voltage across coil (Vo), the conversion frequency (fsw), and the maximum duty (D [%]). Please refer to the core reference table for the cross-sectional area of the core (Ae [cm²]).

$$\triangle$$
 Bp-p = Vo·D/fsw/Ae/N×100

Based on the magnetic flux density, find the core loss per unit weight from the Core Loss Characteristics graph of each series. Multiply this by the core weight to calculate core loss.

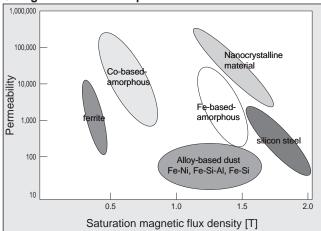


CHOKE COIL CHARACTERISTICS

♦Characteristics comparison of magnetic materials

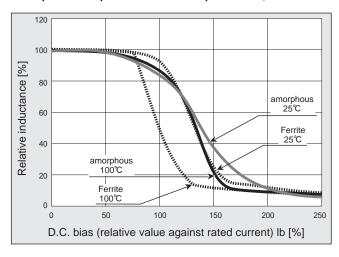
Application	Material shape	Product name	Composition	Saturation magnetic flux density Bs [mT]	Magnetic permeability μ(100[kHz])	Curie point Tc [°C]	Frequency Characteristics (Reference) [kHz]
		Amorphous	Fe-Si-B	1.56	- 5,000	415	- 150
	Foil strip	Amorphous	Co-Fe-Ni-Si-B	0.6	- 18,000	180	-
		Silicon steel plate	Fe-Si	1.3	- 800	700	- 20
			Fe-Ni (High Flux)	1.5	26 to 160	420	- 300
Power system	Powder	Alloy dust	Fe-Si-Al (Sendust)	1.1	26 to 125	570	- 150
- cyclom			Fe-Si (Mega flax)	1.6	26 to 90	500	- 50
			Fe-Si-B (Amorphous dust)	1.56	60 to 200	415	- 300
		ferrite	Mn-Zn	0.4	- 2,400	250	- 500
		iemie	Ni-Zn	0.3	10 to 500	350	- 1,000
Normal	Powder	Fe dust	Fe	1.0	75	770	- 20
Common	Foil strip	Nanocrystalline	Fe-Si-Br-Nb-Cu	1.23	15,000 to 31,000	570	- 1,000
Common	Powder	Powder ferrite Mn-Z		0.5	5,000 to 16,000	130	- 1,000

◆Magnetic material map

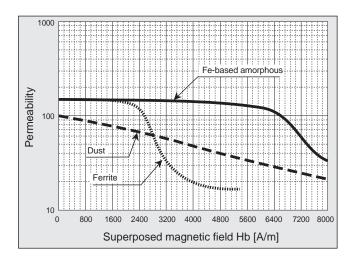


◆D.C. bias of amorphous choke coil

●Temperature dependence : Core temperature 25, 100°C



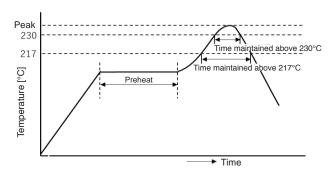
D.C. bias of normal mode choke coil



Recommended Soldering Conditions

♦SURFACE MOUNT TYPE

Recommended soldering heat conditions



Preheat	Time maintained above 217°C	Time maintained above 230°C	Peak temp.	Reflow number
150 to 180°C 120 sec. max.		30 sec. max.	245°C max.	2 times or less

Reflow should be performed twice or less.

Please ensure that the coil became cold enough to the room temperature before the second reflow.

◆RADIAL LEAD TYPE

Recommended soldering heat conditions

Preheat: 110 to 150°C 120 seconds max.

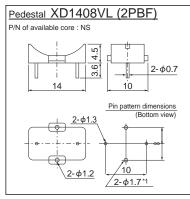
Flow soldering: 260+5°C 10+1 seconds max. (Or hand soldering: 380±10°C 10±1 seconds max.)

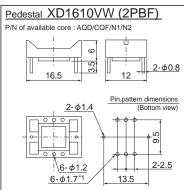
ACCESSORIES

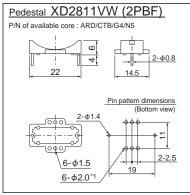
NIPPON CHEMI-CON would like to serve the customers with smaller and higher qualified products. Please name your best suited attaching parts in installation.

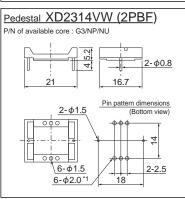
◆Accessories used for choke coils of upright type

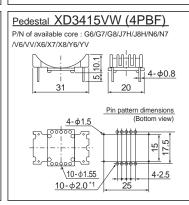
Unit:[mm]

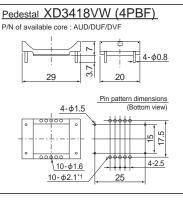


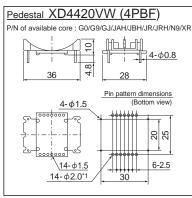


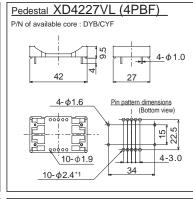


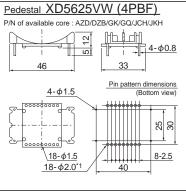


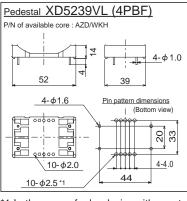


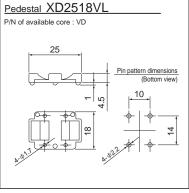


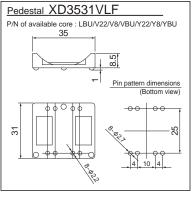








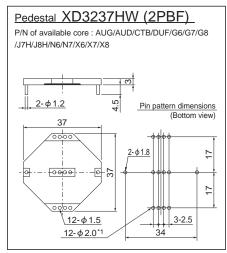


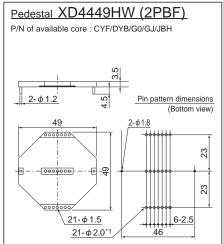


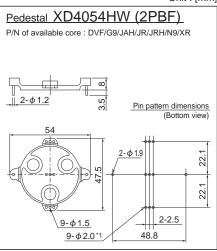
- *1 In the case of a lead wire with greatest dimensions.
- *2 The Specification with auxiliary pins is marked by ().

◆Accessories used for choke coils of lying type

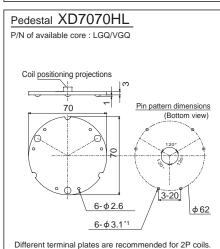
Unit:[mm]

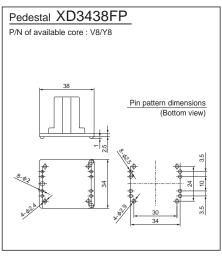


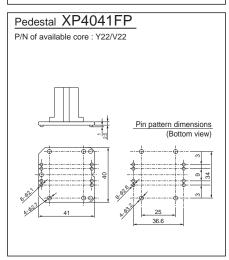


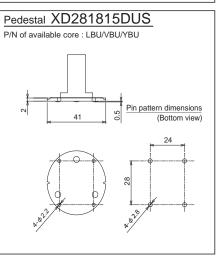


Pedestal XD5358HW (4PBF) P/N of available core : AZD/DZB/GK/GQ/JCH/JKH/WKH Pin pattern dimensions (Bottom view) 58 4-\$\phi_1.8\$ 27-\$\phi_1.5\$ 27-\$\phi_2.0^{\dagger1}\$ 8-2.5









- *1 In the case of a lead wire with greatest dimensions.
- *2 The Specification with auxiliary pins is marked by ().
- The specification described in this manual is defined on the basis of the documentation, information, and data obtained when the document is written. However, the actual performance of each product may vary depending on the configuration of the circuit including the product. Therefore, confirm the performance and stability of the product in the circuit which you design.
- •In general, electronic components may generate heat depending on their operating conditions. Accordingly, never use the products near some flammable substances. In addition, never use the products if any specification exceeds the rated value. This may cause human injury and/or device failure.
- •Handle the coils carefully so that rear short circuits may not occur.
- •The product specification may be subject to change without notice for improvement.





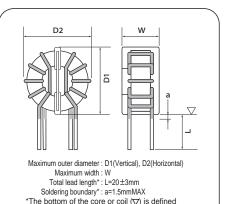


♦MAJOR USES

AC/DC Common mode filter

◆FEATURES

- Greatly improved inductance (10kHz,100kHz).
- ●Improved impedance in the 150 kHz to 1 MHz frequency band when compared to the FL-V series coils.
- ■Deal with it by rated voltage 700V.
- Conforming to insulating type:B and incombustibility UL94V-0.



rise

Α

В

as base surface. Inductance **Outside Dimensions** Rated Rated D.C.R. Winding Frequency Temperature Coil Part No. Core Part No. voltage Current $m\,\Omega$ $mm\phi$ Characteristics 10kHz 100kHz D1 D2 w [V] [A] (max) -lines Graph Graph [mH] [mm] [mH] [mm] [mm] LDFW004272YS-V0E 2.7 38.0 0.55-1P 3.5 8.8 F110705MDX 250 16.0 15.0 12.0 LDFW006102YS-V0E 0.7-1P 5.5 16.0 3.4 1.0 LDFW005402Y66V0E 5 12.8 4.0 28.0 0.8-1P LDFW007252Y66V0E 7 8.2 2.5 15.0 1.0-1P F181205MDX 250 24.5 26.5 2 16.5 LDFW009192Y66V0E 10.5 1.1-1P 8.5 6.2 1.9 LDFW011102Y66V0E 3.2 6.7 1.0 1 2-1P 11 LDFW006832YD-V0E 8.3 0.9-1P 5.5 26.9 26.0

F443420MDX

LDFW030392Y28V0E

LDFW036262Y28V0E

39

2.6

3.6

2.5

30

36

600

12.6

8.4

2 0-2P

2 2-2P

53.0

59.5

39.0

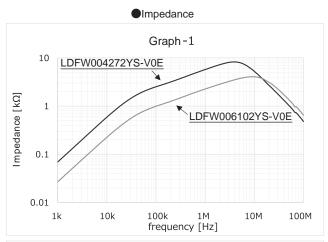
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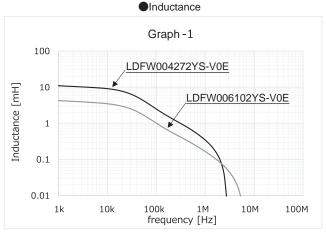
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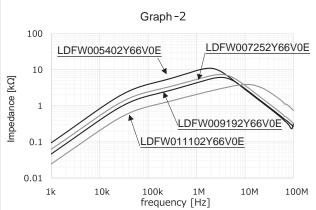
LDFW009412YD-V0E 13.5 16.0 9 4.1 1.1-1P F221407MDX 250 С 27.0 31.0 17.5 3 LDFW012282YD-V0E 1.3-1P 12 9.1 2.8 9.5 LDFW014172YD-V0E 1.7 1.4-1P 14 5.6 7.0 LDFW007652Y6-V0E 7 21.0 6.5 22.0 1.0-1P LDFW010302Y6-V0E 9.7 29.0 F221310MDX 250 10 3.0 11.0 1.2-1P 31.0 21.0 1 D LDFW012202Y6-V0E 7.5 12 6.5 20 1.3-1P LDFW008123YV-V0E 8 37.1 11.5 26.0 1.1-1P 7.4 LDFW011742YV-V0E F251513MDX 250 11 23.9 15.0 1.3-1P 30.5 34.0 23.5 2 Е LDFW013412YV-V0E 13.2 10.0 1.4-1P 13 4.1 7.5 LDFW016362Y8-V0E 16 11.6 1.8-1P 3.6 LDFW023162Y8-V0E 500 23 5.2 1.6 3.7 2.1-1P F F262115MDX 34.0 37.0 3 27.5 LDFW028102Y8-V0E 28 3.2 1.0 2.5 1.6-2P LDFW015372YBUV0E 11.9 6.7 1.7-1P 15 37 4.5 LDFW021252YBUV0E 21 8.1 2.5 F281815MUDX 700 1.9-1P 36.0 39.5 29.5 G 4 LDFW026152YBUV0E 1.5-2P 26 4.8 1.5 2.9 7.3 7.9 LDFW016732Y22V0E 16 23.5 1.9-1P LDFW020412Y22V0E 13.2 4.9 20 4.1 2.1-1P F312115MDX 500 38.0 43.0 28.5 5 Н 7.4 LDFW025232Y22V0E 25 23 3.1 1.6-2P LDFW032142Y22V0E 32 4.5 1.4 1.9 1.8-2P LDFW020592YJUV0E 5.7 20 19.0 5.9 1.5-2P LDFW027282YJUV0E F372315MUDX 700 90 2.8 1.7-2P 27 3.1 48.0 50.0 32.5 6 I LDFW039172YJUV0E 1.7 1.8 39 5.5 2.0-2P

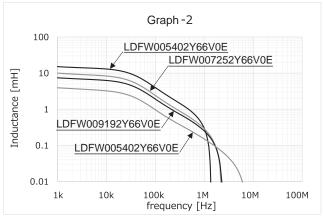
The inductance at 10kHz indicates the reference value.

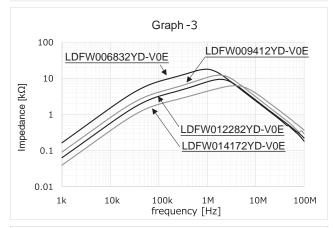
FWSeries

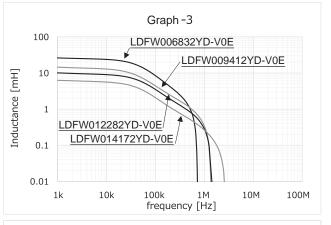


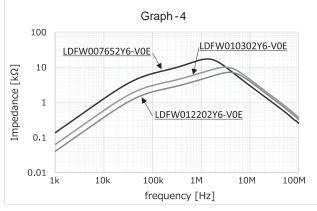


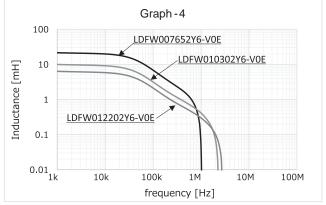






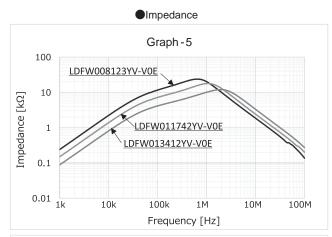


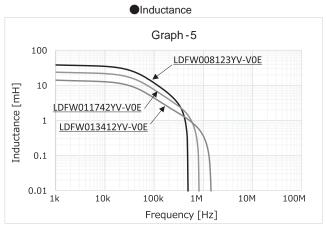


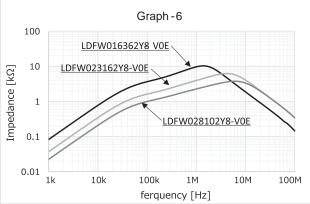


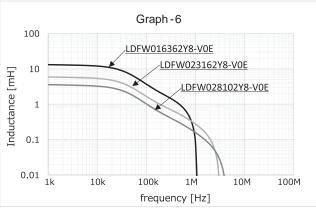


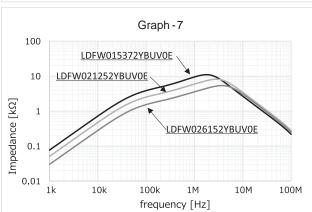
FWSeries

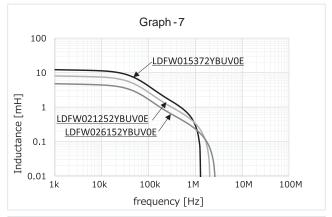


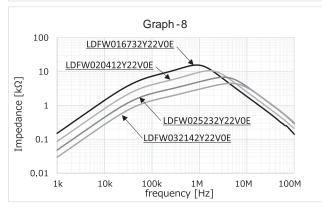


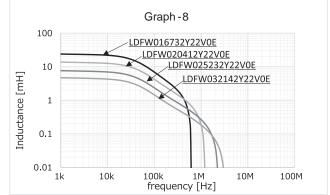






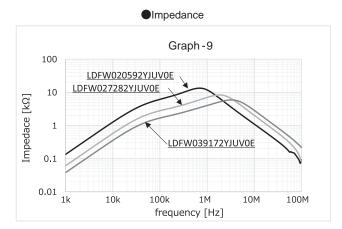


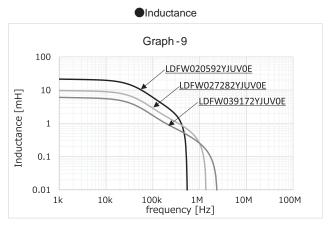


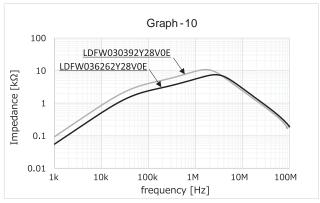


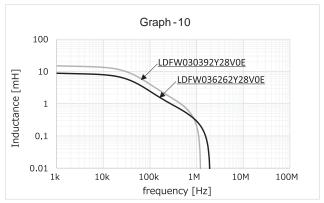


FWSeries





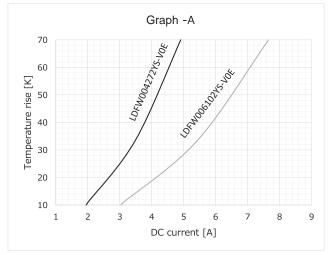


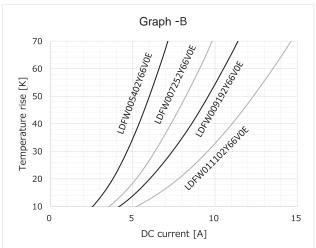


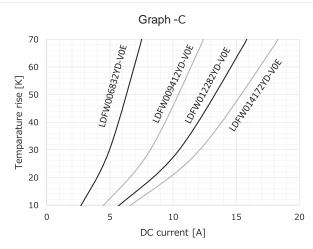


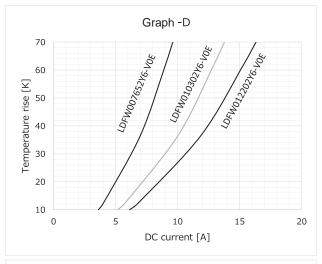
FWSeries

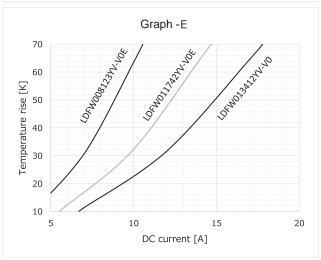
♦RISE TEMPERATURE: AMBIENT TEMPERATURE=25°C SATURATED TEMPERATURE DUE TO DC CURRENT APPLICATION. *This data don't consider set situation,influence of around parts.

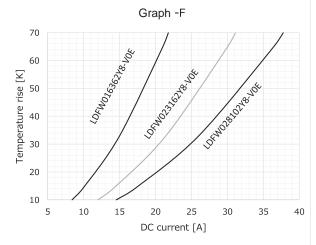








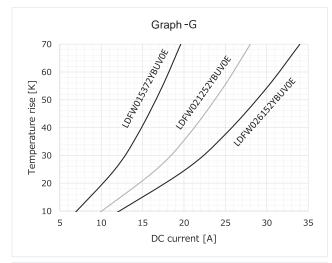


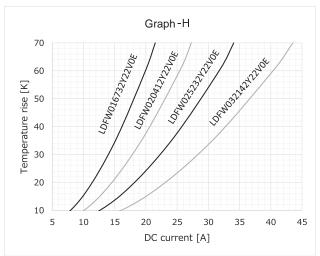


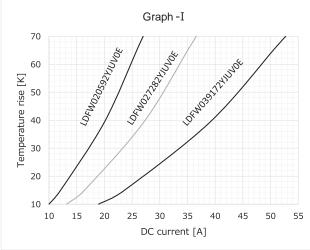


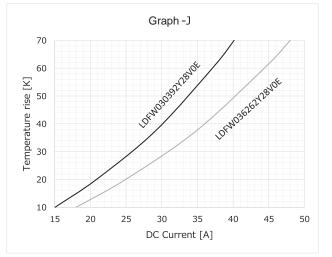
FWSeries

♦RISE TEMPERATURE: AMBIENT TEMPERATURE=25°C SATURATED TEMPERATURE DUE TO DC CURRENT APPLICATION. *This data don't consider set situation,influence of around parts.









Precautions and Guidelines

- ●The lead wires are made of copper. Please take care not to apply excessive force or repeatedly bend them.
- ●Do not allow the coil to come into contact with hard or sharp objects. Doing so may damage the coating and impair performance.
- ●The heat resistance temperature of 130°C is the rated temperature, which includes the heat generated by the coil itself.
- In high-temperature and high-humidity environments, hydrolysis may cause the wire coating to degrade, leading to insulation deterioration.
- ●Common-mode coils may experience magnetic saturation due to unbalanced current.
- Safety standards have not been obtained for the coil alone.







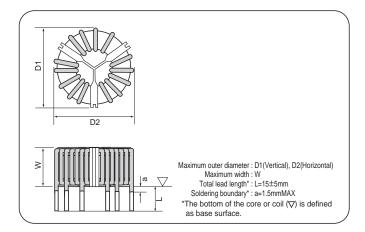
For three-phase circuit

♦MAJOR USES

●Noise filter for inverter and large-capacity power supply

♦FEATURES

- •Greatly improved inductance (10kHz,100kHz).
- ●Improved impedance in the 150 kHz to 1 MHz frequency band when compared to the FL-V series coils.



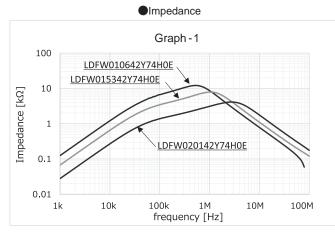
			Rated	Induc	tance	D.C.R.	Winding	Outsid	le Dime	nsions	Frequency	Temperature	
Coil Part No.	Core Part No.	voltage [V]	Current [A]	10kHz	100kHz	mΩ (max)	mm ϕ	D1	D2	W	Characteristics Graph	rise Graph	
		[*]	[7]	[mH]	[mH]	(IIIax)	-111103	[mm]	[mm]	[mm]	Orapii	Grapii	
LDFW010642Y74H0E			10	20.7	6.4	13.0	1.4-1P						
LDFW015342Y74H0E	F312115MDX	500	15	11.1	3.4	6.6	1.7-1P	42.0	42.0	27.5	1	A	
LDFW020142Y74H0E			20	4.5	1.4	3.1	2.0-1P						
LDFW015422YJQH0E			15	13.5	4.2	6.4	1.8-1P						
LDFW020282YJQH0E	F372315MDX	500	20	9.0	2.8	4.5	2.0-1P	48.5	48.5	29.0	2	В	
LDFW025172YJQH0E	F3/2315MDX		500	25	5.5	1.7	2.6	2.3-1P	40.5	40.0	23.0		
LDFW030132YJQH0E			30	4.0	1.3	2.0	2.3-1P						
LDFW020502Y72H0E				20	16.2	5.0	5.6	2.1-1P					
LDFW025282Y72H0E	F422615MDX	X 500	25	9.1	2.8	3.6	2.3-1P	56.0 56.0	50.0	32.0	3	С	
LDFW030172Y72H0E	F422013WDX	300	30	5.5	1.7	2.4	1.8-2P		30.0		3		
LDFW035132Y72H0E			35	4.0	1.3	1.7	2.0-2P						
LDFW030332Y73H0E			30	10.6	3.3	3.0	2.0-2P					D	
LDFW035222Y73H0E	F503415MUDX	500	35	7.1	2.2	2.3	2.1-2P	05.0	05.0	35.0	4		
LDFW040172Y73H0E		F303415MUDX	300	40	5.6	1.7	1.9	2.2-2P	65.0	65.0	33.0	4	U
LDFW050102Y73H0E			50	3.2	1.0	1.2	2.4-2P						

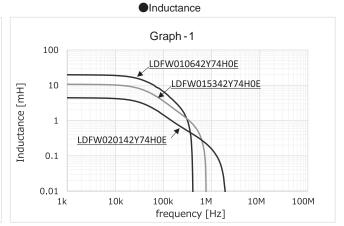
^{*} The inductance at 10kHz indicates the reference value.

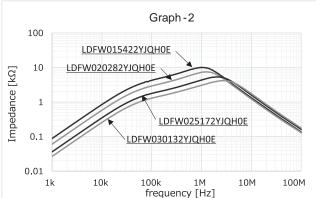


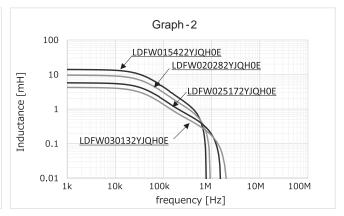
FWSeries

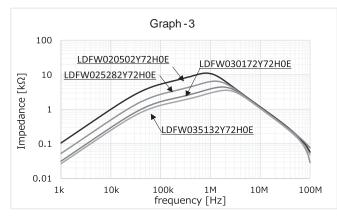
For three-phase circuit

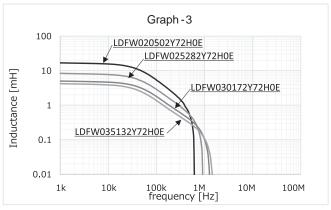


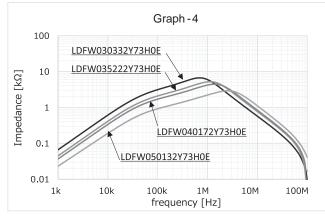


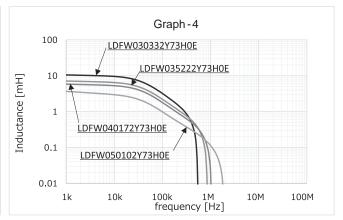










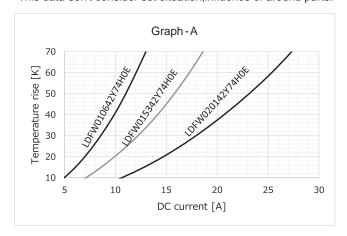


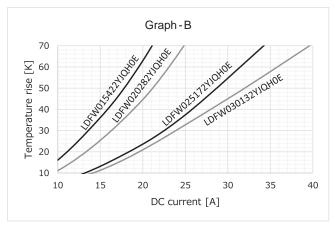


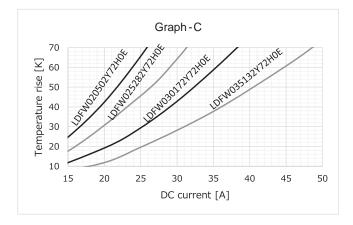
FWSeries

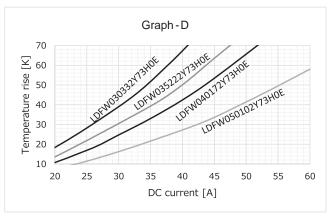
For three-phase circuit

♦RISE TEMPERATURE: AMBIENT TEMPERATURE=25°C SATURATED TEMPERATURE DUE TO DC CURRENT APPLICATION. *This data don't consider set situation, influence of around parts.











NANOCRYSTALLINE CORES



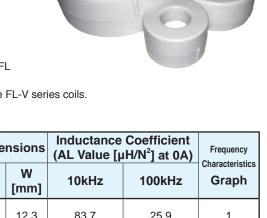


♦MAJOR USES

- •Signal line noise filter
- ●Noise filter for DC power lines
- ●Noise filter for AC power lines
- ●Zero-phase reactor

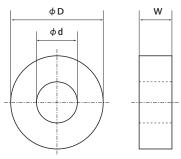
♦FEATURES

- Achieved high impedance over a broad range of frequencies when compared to the FL Series.
- ●Improved impedance in the 150 kHz to 1 MHz frequency band when compared to the FL-V series coils.
- ●Conforming to insulating type:B and incombustibility UL94V-0.



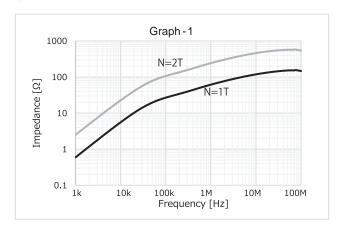
Coil Part No.	Cross Sectional	Magnetic Path	Weight	Outsid	e Dime	nsions		Coefficient uH/N ²] at 0A)	Frequency Characteristics
Con Fait No.	Area [cm²]	Length [cm]	[9]	φD [mm]	φd [mm]	W [mm]	10kHz	100kHz	Graph
LRF251510MKDX	0.41	6.38	25	28.3	12.7	12.3	83.7	25.9	1
LRF251515MKDX	0.63	6.38	35	28.3	12.7	17.5	126.4	39.2	2
LRF322015MKDX	0.69	8.09	46	35.2	17.5	17.3	106.8	33.1	3
LRF372315MKDX	0.83	9.33	67	40.5	19.5	18.0	114.9	35.6	4
LRF462715MKDX	1.14	11.47	107	49.4	22.7	18.0	124.8	38.7	5
LRF462725MKDX	1.90	11.47	165	49.4	22.7	28.0	208.4	64.6	6
LRF624520MKDX	1.36	16.81	200	66.0	41.0	24.0	104.1	32.3	7

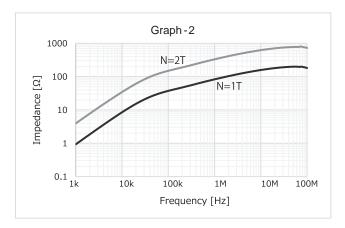
♦DIMENSIONS OF CORE

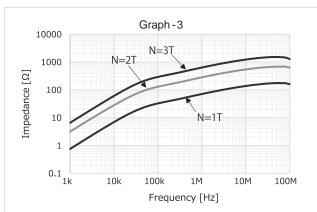


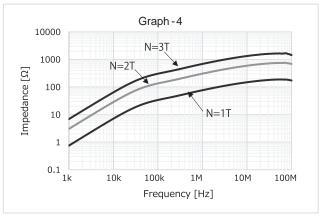
Outer diameter : ϕD Inner diameter : ϕd Width : W

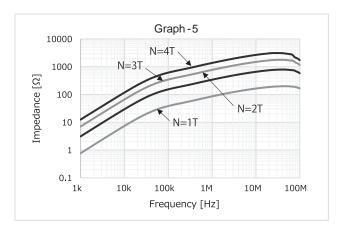


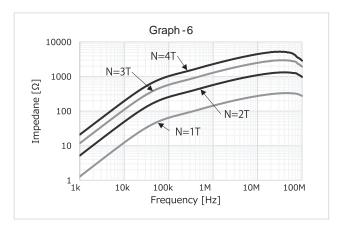


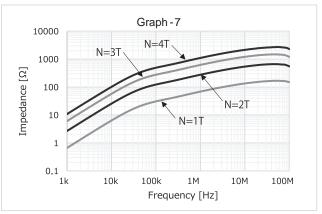
















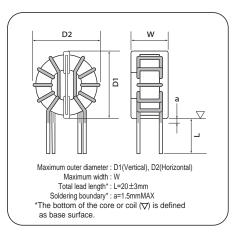


♦MAJOR USES

●Common mode noise filter for AC/DC

♦FEATURES

- •Significantly improved inductance performance when compared to the FL Series
- •Achieved high impedance over a broad range of frequencies when compared to the FL

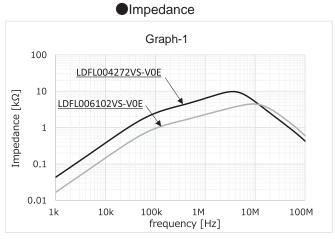


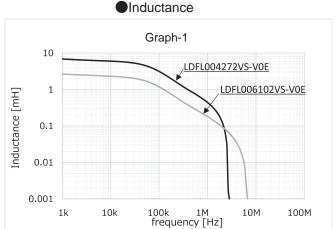
		Rated	Rated	Induc	tance	D.C.R.	Winding	Outsid	e Dime	nsions	Frequency	Temperature			
Coil Part No.	Core Part No.	voltage [V]	Current [A]	10kHz [mH]	100kHz [mH]	mΩ (max)	mm ϕ -lines	D1 [mm]	D2 [mm]	W [mm]	Characteristics Graph	rise Graph			
LDFL004272VS-V0E			3.5	6.0	2.7	38.0	0.55-1P								
LDFL006102VS-V0E	F110705MCX	250	5.5	2.3	1.0	16.0	0.70-1P	15.0	16.0	12.0	1	A			
LDFL006832VD-V0E			5.5	18.3	8.3	26.0	0.90-1P								
LDFL009412VD-V0E	F004 407 MOV	050	9	9.1	4.1	16.0	1.1-1P	07.0	04.0	47.5		В			
LDFL012282VD-V0E	F221407MCX	250	12	6.2	2.8	9.5	1.3-1P	27.0	31.0	17.5	2	В			
LDFL014172VD-V0E			14	3.8	1.7	7.0	1.4-1P								
LDFL007652V6-V0E			7	16.3	6.5	22.0	1.0-1P								
LDFL010302V6-V0E	F221310MCX	250	10	6.7	3.0	11.0	1.2-1P	29.0	31.0	21.0	3	С			
LDFL012202V6-V0E			12	4.5	2.0	7.5	1.3-1P								
LDFL008123VV-V0E			8	25.3	11.5	26.0	1.1-1P								
LDFL011742VV-V0E	F251513MCX	F251513MCX	F251513MCX	F251513MCX	250	11	16.2	7.4	15.0	1.3-1P	30.5	34.0 23.5	23.5	4	D
LDFL013412VV-V0E			13	9.1	4.1	12.0	1.4-1P								
LDFL016362V8-V0E			16	7.8	3.6	7.5	1.8-1P								
LDFL023162V8-V0E	F262115MCX	500	23	3.4	1.6	3.7	2.1-1P	34.0	37.0	27.5	5	Е			
LDFL028102V8-V0E					28	2.2	1.0	2.5	1.6-2P						
LDFL015372VBUV0E	F281815MUCX	F281815MUCX	F281815MUCX		15	8.1	3.7	6.7	1.7-1P						
LDFL021252VBUV0E				F281815MUCX	F281815MUCX	F281815MUCX	281815MUCX 700	21	5.4	2.5	4.5	1.9-1P	36.0	40.0	29.5
LDFL026152VBUV0E			26	3.3	1.5	2.9	1.5-2P								
LDFL016732V22V0E			16	16.0	7.3	7.9	1.9-1P								
LDFL020412V22V0E	F312115MCX	500	20	9.0	4.1	4.9	2.1-1P	38.0	43.0	28.5	7	G			
LDFL025232V22V0E	TOTETTOWOX	300	25	5.0	2.3	3.1	1.6-2P	30.0	40.0	20.0	,				
LDFL032142V22V0E			32	3.0	1.4	1.9	1.8-2P								
LDFL020592VJUV0E			20	12.9	5.9	5.7	1.5-2P								
LDFL027282VJUV0E	F372315MUCX	700	27	6.2	2.8	3.1	1.7-2P	48.0	50.0	32.5	8	Н			
LDFL039172VJUV0E				39	3.7	1.7	1.8	2.0-2P							
LDFL030392V28V0E	F443420MCX	600	30	8.5	3.9	3.6	2.0-2P	53.0	59.5	39.0	9	J			
LDFL036262V28V0E	1 TTOTEONIOX		36	5.6	2.6	2.5	2.2-2P	55.0	55.5	00.0					

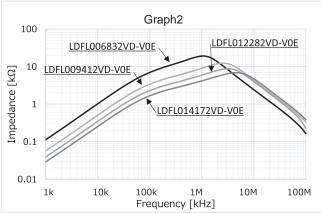
^{*} The inductance at 10kHz indicates the reference value.

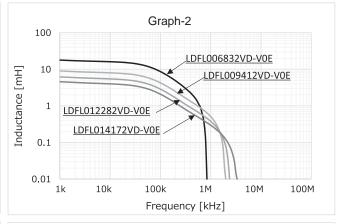


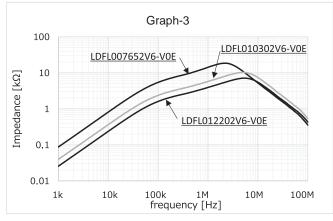
FL-V_{Series}

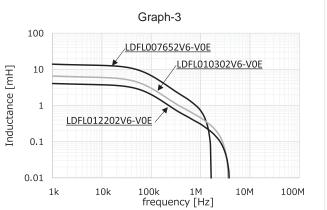














10M

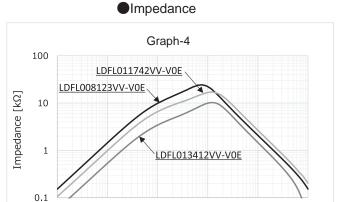
100M

FL-V_{Series}

1k

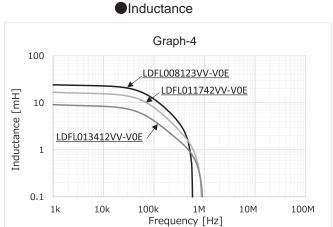
10k

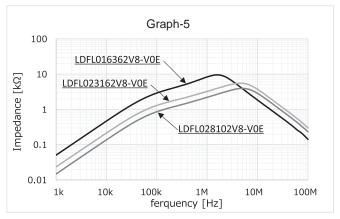
♦FREQUENCY CHARACTERISTICS AMBIENT TEMPERATURE:25°C

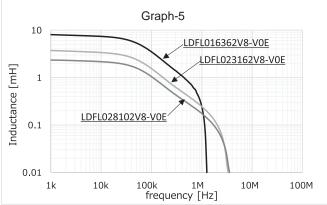


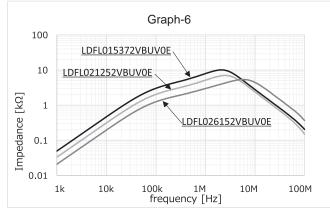
100k

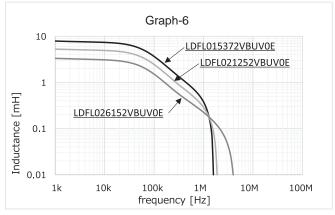
100k 1M Frequency [Hz]





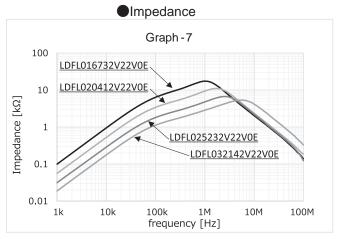


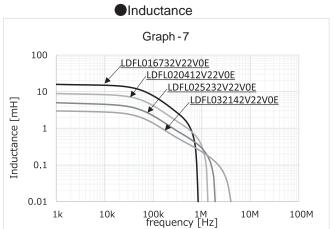


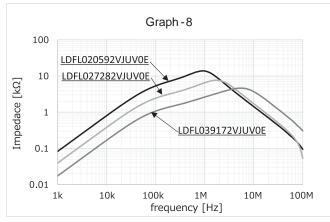


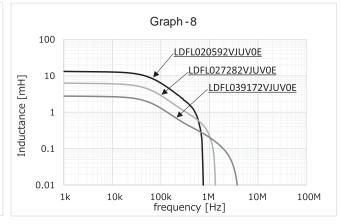


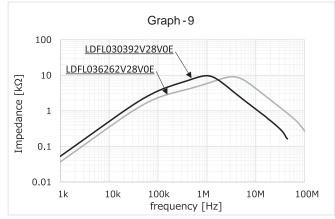
FL-V_{Series}

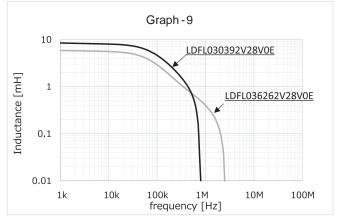










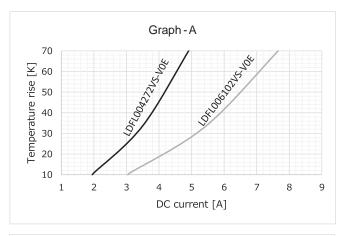


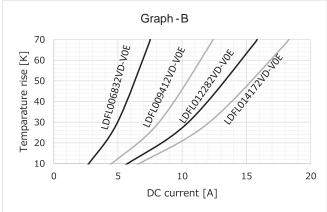


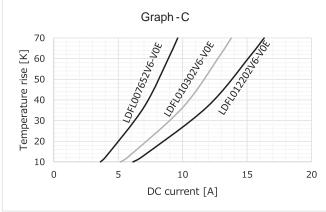
FL-V_{Series}

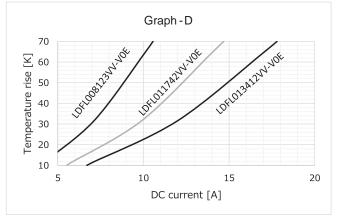
◆RISE TEMPERATURE: AMBIENT TEMPERATURE=25°C SATURATED TEMPERATURE DUE TO DC CURRENT APPLICATION.

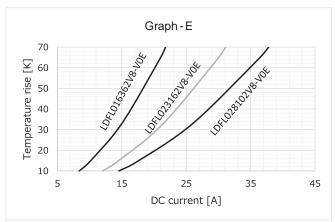
*This data don't consider set situation,influence of around parts.

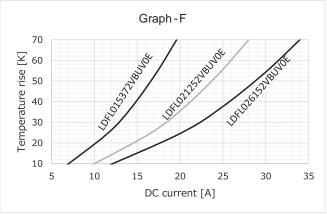








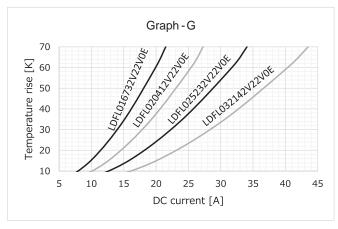


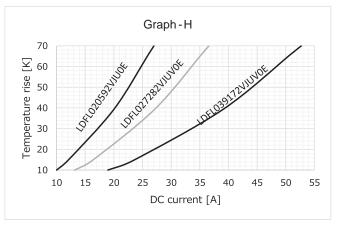


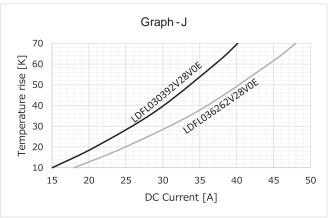




- ◆RISE TEMPERATURE: AMBIENT TEMPERATURE=25°C SATURATED TEMPERATURE DUE TO DC CURRENT APPLICATION.
- *This data don't consider set situation,influence of around parts.











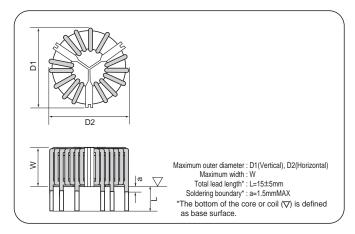
For three-phase circuit

♦MAJOR USES

●Common mode noise filter for AC/DC

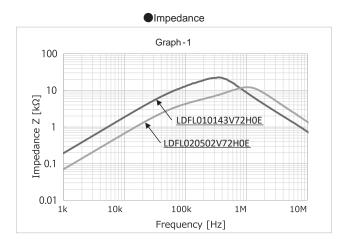
◆FEATURES

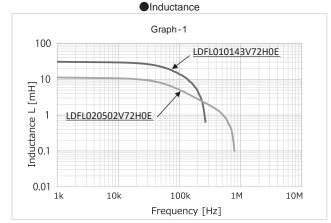
- Significantly improved inductance performance when compared to the FL Series
- Achieved high impedance over a broad range of frequencies when compared to the FL Series

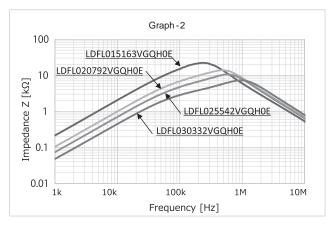


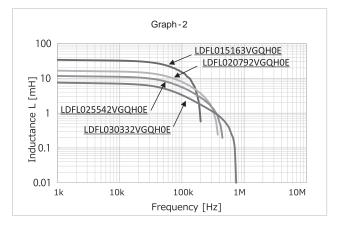
		Rated	Rated	Inductance		D.C.R.	Winding	Outside Dimensions			_ i requericy	Temperature		
Coil Part No.	Core Part No.	voltage [V]	Current [A]	10kHz [mH]	100kHz [mH]	mΩ (max)	mm φ-lines	D1 [mm]	D2 [mm]	W [mm]	Characteristics Graph	rise Graph		
LDFL010143V72H0E	E40004 FM00V	250	10	30.7	14.0	18.0	1.5-1P	56.0	56.0 56.0	0 00 0	1	-		
LDFL020502V72H0E	F422615MQCX	250	20	11.1	5.0	6.0	2.0-1P	30.0	36.0	32.0		-		
LDFL015163VGQH0E					15	34.5	15.7	15.0	2.0-1P					-
LDFL020792VGQH0E	F503415MQCX	050	20	17.3	7.9	6.0	2.3-1P	65.0	05.0	35.0	2	-		
LDFL025542VGQH0E	F505415IVIQUA	250	25	11.7	5.4	5.0	1.8-2P	03.0	65.0	5.0 35.0	2	-		
LDFL030332VGQH0E			30	7.2	3.3	4.0	2.0-2P					-		

^{*} The inductance at 10kHz indicates the reference value.









NANOCRYSTALLINE CORES





- **♦**MAJOR USES
- ●Common mode noise filter for AC/DC
- Zero-phase reactor

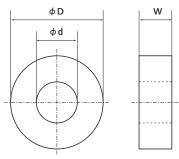
♦FEATURES

•Achieved high impedance over a broad range of frequencies when compared to the FL Series



Core Part No.	Cross Sectional	Magnetic Path	Weight	Outsid	e dime	nsions	Inductance (AL Value [µ	Frequency - Characteristics	
Core Part No.	Area [cm²]	Length [cm]	[9]	φD [mm]	φd [mm]	W [mm]	10kHz	100kHz	Graph
LRF251510MKCX	0.41	6.38	25	28.3	12.7	12.3	-	25.2	1
LRF251515MKCX	0.63	6.38	35	28.3	12.7	17.5	-	38.1	2
LRF322015MKCX	0.69	8.09	46	35.2	17.5	17.3	-	33.1	3
LRF372315MKCX	0.83	9.33	67	40.5	19.5	18.0	-	34.7	4
LRF462715MKCX	1.14	11.47	107	49.4	22.7	18.0	-	38.7	5
LRF462725MKCX	1.90	11.47	165	49.4	22.7	28.0	-	64.6	6
LRF624520MKCX	1.36	16.81	200	66.0	41.0	24.0	-	31.5	7

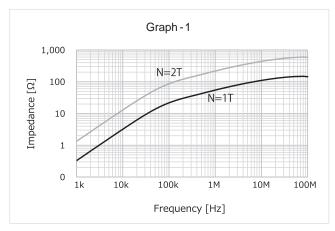
♦DIMENSIONS OF CORE

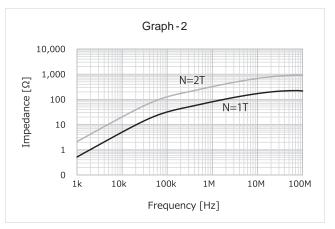


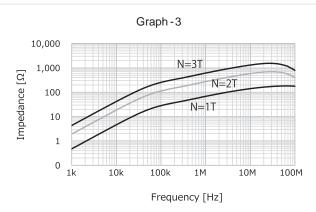
Outer diameter : ϕD Inner diameter : φd Width : W

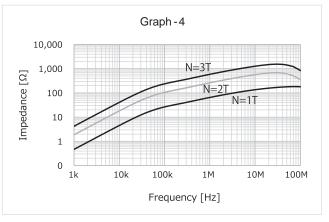


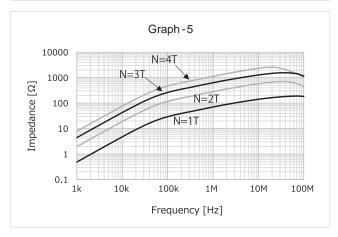
◆FREQUENCY IMPEDANCE CHARACTERISTICS AMBIENT TEMPERATURE:25°C

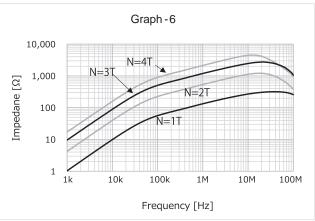


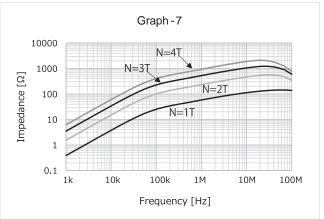
















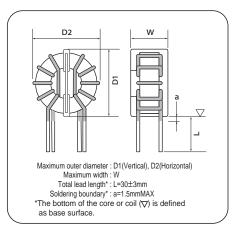


♦MAJOR USES

●Common mode noise filter for AC/DC

◆FEATURES

- •Achieved significant miniaturization due to high permeability core
- •High inductance in spite of a small number of turns
- ●Low temperature rise due to low D.C. resistance
- •Stable frequency performance of noise suppression in wide frequency range
- Excellent temperature characteristics



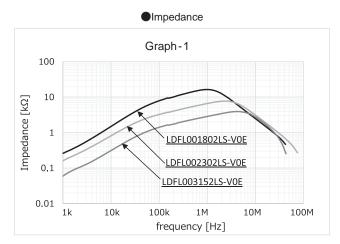
		Rated	Rated	Induc	tance	D.C.R.	Winding	e Dime	nsions	Frequency	Temperature		
Coil Part No.	Core Part No.	voltage [V]	Current [A]	10kHz [mH]	100kHz [mH]	mΩ (max)	mm φ-lines	D1 [mm]	D2 [mm]	W [mm]	Characteristics Graph	rise Graph	
LDFL001802LS-V0E			1	28.0	8.0	200.0	0.35-1P	15.0	16.0	11.9		-	
LDFL002302LS-V0E	F110705MX	250	2	11.6	3.0	85.0	0.45-1P	15.0	16.0	11.9	1	-	
LDFL003152LS-V0E			3	5.6	1.5	45.0	0.55-1P	15.0	16.0	11.9		-	
LDFL003552L5-V0E			3	22.0	5.5	56.0	0.7-1P	28.0	29.0	15.0		-	
LDFL005132L5-V0E	F211205MX	250	5	5.4	1.3	16.0	1.0-1P	29.0	30.0	15.0	2	-	
LDFL008451L5-V0E			8	1.8	0.5	6.5	1.3-1P	29.5	31.0	15.0		-	
LDFL003153L6-V0E			3	60.0	15.0	82.0	0.7-1P	29.0	30.5	20.5		-	
LDFL005332L6-V0E	F221310MX	250	5	13.0	3.3	21.0	1.0-1P	29.0	30.5	20.0	3	-	
LDFL008102L6-V0E			8	4.2	1.0	9.0	1.3-1P	29.5	31.5	20.5		-	
LDFL005302LT-V0E			5	13.0	3.0	17.0	1.1-1P	34.0	36.0	20.0		-	
LDFL010102LT-V0E				10	5.8	1.0	8.0	1.5-1P	34.0	38.0	22.0		-
LDFL005502LT-V0E	F281510MX	250	5	23.0	5.0	23.0	1.1-1P	34.5	36.5	20.5	4	-	
LDFL015102LT-V0E			15	3.7	1.0	6.0	1.6-1P	34.5	38.0	20.5		-	
LDFL010302LT-V0E			10	13.0	3.0	11.0	1.4-1P	36.0	38.0	22.0		-	
LDFL005103LR-V0E			5	39.0	10.0	33.0	1.1-1P	39.0	41.0	25.5	_	-	
LDFL030102LR-V0E			30	4.2	1.0	5.0	1.7-2P	39.5	44.0	29.5		-	
LDFL010502LR-V0E	F322015MX	250	10	24.0	5.0	15.0	1.5-1P	40.0	43.0	27.0	5	-	
LDFL015302LR-V0E			15	15.0	3.0	10.0	1.8-1P	40.0	42.5	29.0		-	
LDFL020102LR-V0E			20	4.2	1.0	5.0	1.5-2P	42.5	43.0	28.0		-	
LDFL010103LJ-V0E			10	46.5	10.0	20.0	1.5-1P	46.5	47.5	27.5		-	
LDFL020302LJ-V0E			20	13.5	3.0	7.0	1.5-2P	46.5	48.0	30.0		-	
LDFL015502LJ-V0E	F372315MX	250	15	24.8	5.0	11.0	1.8-1P	47.0	49.0	28.0	6	-	
LDFL025252LJ-V0E			25	11.6	2.5	5.0	1.6-2P	47.0	49.0	31.0		-	
LDFL030202LJ-V0E			30	9.9	2.0	6.0	1.7-2P	47.0	48.5	31.0		-	
LDFL010402LBUV0E	E00101EMILV	700	10	16.0	4.0	12.0	1.5-1P	42.0	42.0	32.0	7	-	
LDFL015132LBUV0E	F281815MUX	700	15	5.1	1.3	6.0	1.9-1P	42.0	42.0	32.5	7	-	
LDFL020342LJUV0E	E07004EMIN	700	20	13.5	3.4	8.0	1.4-2P	49.0	49.0	31.0	0	-	
LDFL025252LJUV0E	F372315MUX	700	25	9.9	2.5	6.0	1.6-2P	50.0	50.0	32.0	8	-	

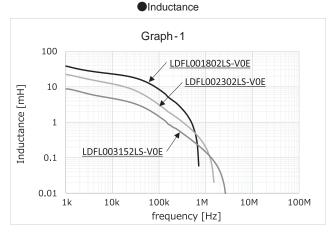
^{*} The inductance at 10kHz indicates the reference value.

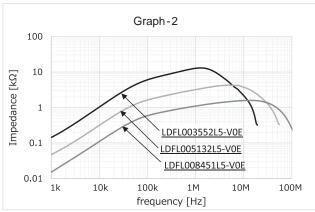
The total lead length of the items marked with ● is 15±3mm.

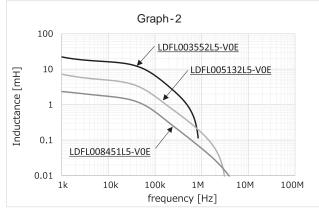


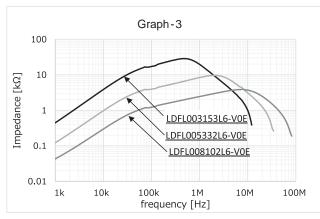
Series

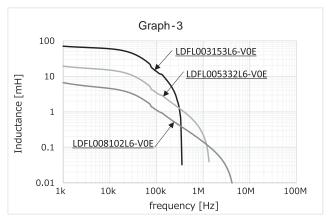


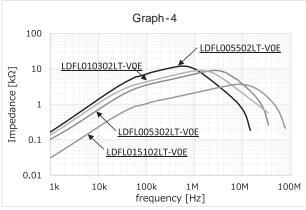


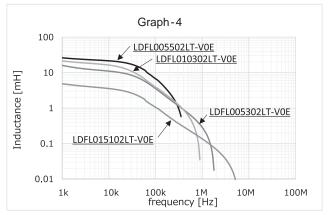






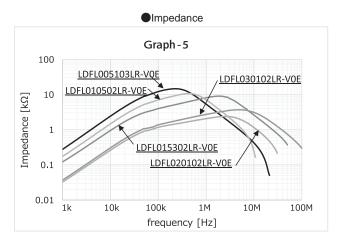


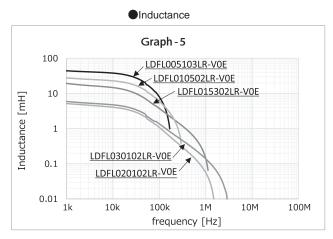


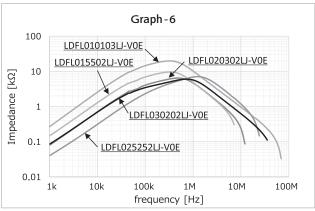


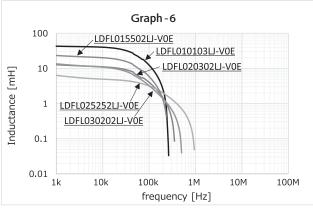


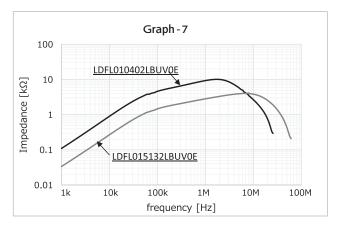
Series

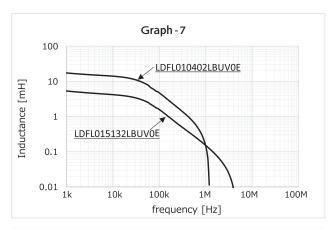


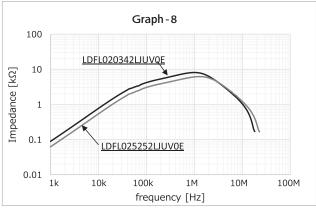


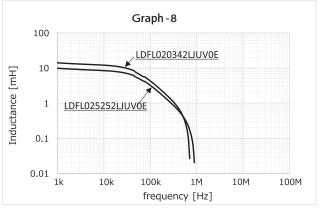


















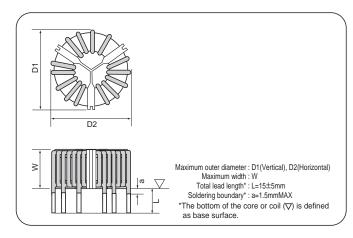
For three-phase circuit

♦MAJOR USES

●Common mode noise filter for AC/DC

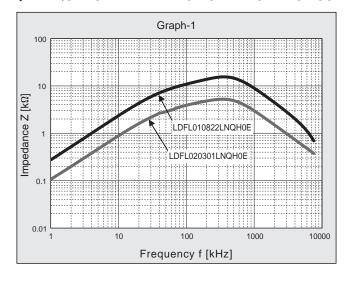
♦FEATURES

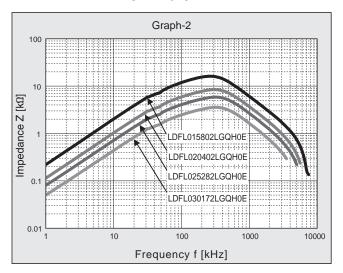
- •Achieved significant miniaturization due to high permeability core
- •High inductance in spite of a small number of turns
- •Low temperature rise due to low D.C. resistance
- •Stable frequency performance of noise suppression in wide frequency range
- Excellent temperature characteristics



		Rated	Rated	Inductance		D.C.R.	Winding	Outside Dimensions			riequency	Temperature	
Coil Part No.	Core Part No.	voltage [V]	Current [A]	10kHz [mH]	100kHz [mH]	mΩ (max)	mm ϕ -lines	D1 [mm]	D2 [mm]	W [mm]	Characteristics Graph	rise Graph	
LDFL010822LNQH0E		250	10	27.0	8.2	18.0	1.5-1P	56.0	FC 0	32.0	1	-	
LDFL020302LNQH0E	F422615MQX	250	20	11.0	3.0	6.0	2.0-1P	30.0	56.0	32.0		-	
LDFL015802LGQH0E				15	30.0	8.0	15.0	2.0-1P					-
LDFL020402LGQH0E	E40004EMOV	250	20	16.0	4.0	6.0	2.3-1P	CE 0	CE 0	25.0	2	-	
LDFL025282LGQH0E	F422615MQX	250	25	10.0	2.8	5.0	1.8-2P	65.0 65	65.0	35.0	2	-	
LDFL030172LGQH0E			30	7.0	1.7	4.0	2.0-2P					-	

♦FREQUENCY - IMPEDANCE CHARACTERISTICS AMBIENT TEMPERATURE:25°C











The FM series coils are made of nano-crystal.

♦MAJOR USES

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

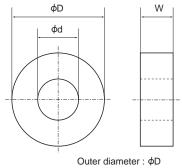
◆FEATURES

- •High impedance in spite of a small number of turns
- •Excellent temperature characteristics



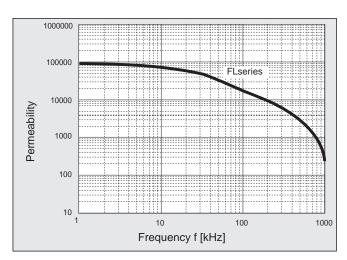
Core Part No.	Cross Sectional	Magnetic Path	Weight	Outsid	le Dime	nsions	Inductance (AL Value [Frequency Characteristics		
Core Part No.	Area [cm²]	Length [cm]	[g]	φD [mm]	φd [mm]	W [mm]	10kHz	100kHz	Graph	
LRF251515MKX	0.63	6.40	35	28.3	12.7	17.5	-	18.3	1	
LRF322015MKX	0.73	8.17	46	35.2	17.5	17.3	-	16.6	2	
LRF372315MKX	0.85	9.42	67	40.5	19.5	18.0	-	17.2	3	
LRF462725MKX	1.92	11.50	175	49.4	22.7	28.0	-	31.0	4	
LRF603525MKX	2.53	14.90	310	66.7	29.3	29.2	-	31.6	5	
LRF624520MKX	1.36	16.81	200	66.0	41.0	24.0	-	15.2	6	

♦DIMENSIONS OF CORE



Inner diameter : φd Width: W

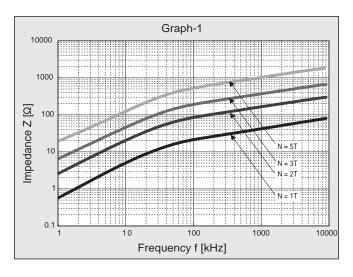
♦FREQUENCY - PERMEABILITY CHARACTERISTICS

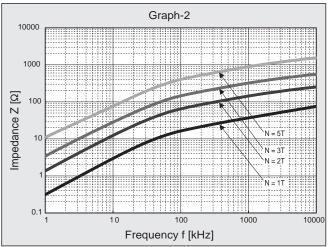


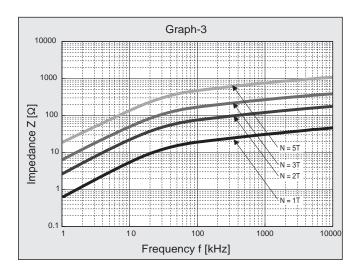


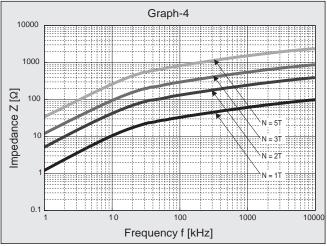


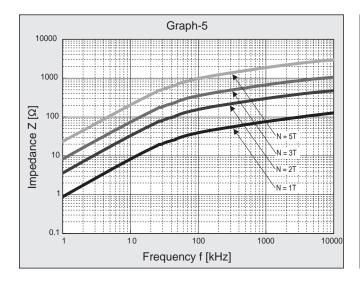
♦FREQUENCY - IMPEDANCE CHARACTERISTICS AMBIENT TEMPERATURE:25°C

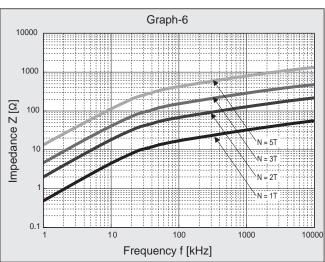












NANOCRYSTALLINE CORES





♦MAJOR USES

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

◆FEATURES

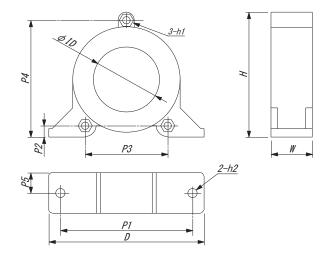
- •Case with a hole to secure the chassis
- •High impedance in spite of a small number of turns
- •Excellent temperature characteristics



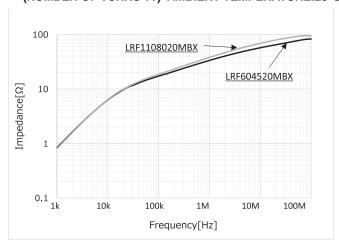
Core Part No.	Cross Sectional Area	Magnetic Path Length	Coeff	tance icient ıH/N²] at 0A)	Applicable screws		
	[cm²]	[cm]	10kHz	100kHz	h1	h2	
LRF604520MBX	1.2typ.	16.4typ.	77.0typ.	13.0typ.	M4	M5	
LRF1108020MBX	2.2typ.	30.0typ.	85.0typ.	15.0typ.	M5	M6	

				Outs	side Dimens	ions			
Core Part No.	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





■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 *1	-40 to 150°C

^{*1} Temperature on the coil surface including the temperature rise during installation.

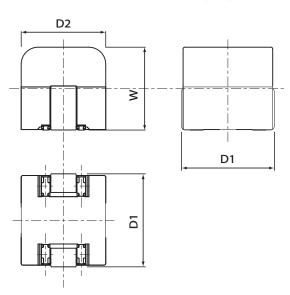
Never use the coil at a temperature exceeding the rated temperature range.

♦COIL STANDARD SPECIFICATIONS

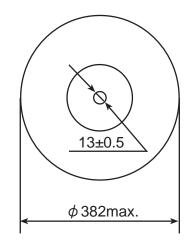
	Rated	Inductano	e (20kHz)	D.C.R.	Winding	Outsid	le Dimer	nsions	D.C. BIAS
Coil Part No.	Current [A]	0Α [μΗ]	Rating [µH]	mΩ (max)	mm φ-lines	D1 [mm]	D2 [mm]	W [mm]	CHARACTERISTICS Graph
LKKA0200R5K1FF0E	20	0.7	0.5	0.78	-	11.0	10.5	10.3	
LKKA0200R4K1DF0E	20	0.5	0.4	0.78	-	11.0	10.5	10.3	1
LKKA0300R3K1CF0E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

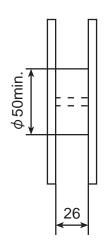
^{*} The inductance at current 0[A] indicates the reference value.

♦ STANDARD DIMENSION DIAGRAM (mm)



♦ REEL DIMENSIONS [mm]







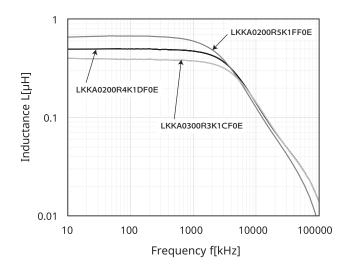


♦ D.C. BIAS CHARACTERISTICS

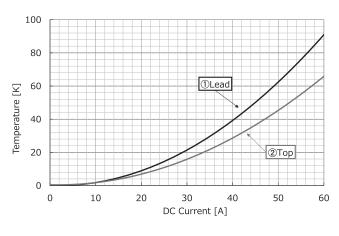
• Frequency : 20[kHz]

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 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

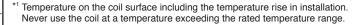
•Noise filter for power source and automotive electrical unit

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

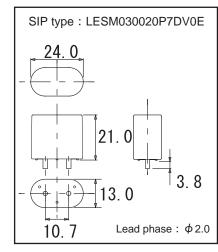


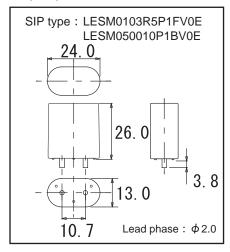
*2 Recommended range. When infra-acoustic frequency component is impressed, a beat sound sometimes occurs.

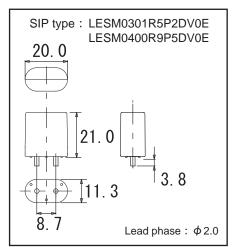
	Rated	Inductano	e (20kHz)	D.C.R.	Winding	Outsid	de Dimer	nsions	D.C. BIAS
Coil Part No.	Current [A]	0Α [μΗ]	Rating [µH]	mΩ (max)	mm φ-lines	D1 [mm]	D2 [mm]	W [mm]	CHARACTERISTICS Graph
LESM030020P7DV0E	30	2.2	1.9			24.0	13.0	21.0	
LESM0103R5P1FV0E	10	3.7	3.5	0.40	2.0-1P	24.0	13.0	26.0	1
LESM050010P1BV0E	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	0.36	2.0-17	∠0.0	11.3	21.0	2

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

♦STANDARD DIMENSION DIAGRAM (mm)







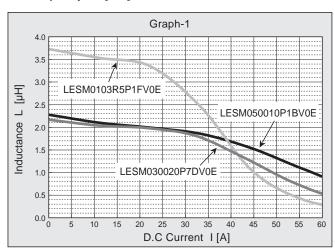


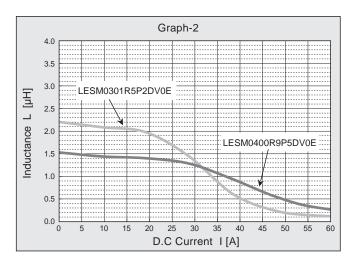




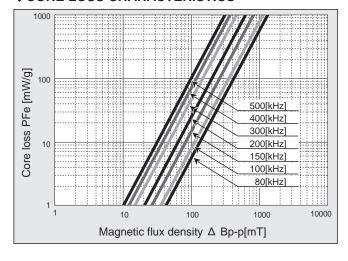
♦D.C. BIAS CHARACTERISTICS

●Frequency: 10[kHz]

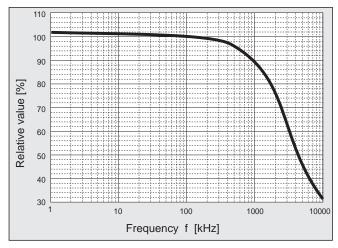




CORE LOSS CHARACTERISTICS



◆FREQUENCY - INDUCTANCE CHARACTERISTICS









◆MAJOR USES

•For Switching Mode Power Supply Normal mode noise filter

◆FEATURES

- Achieved significant miniaturization when compared to a ferrite choke
- •Reduced high frequency iron loss when compared to a silicon steel choke
- •Excellent DC superimposition characteristics and temperature characteristics when compared to a dust choke
- •Unidirectional leakage flux enables parts to be mounted adjacently adjacent mounting parts.

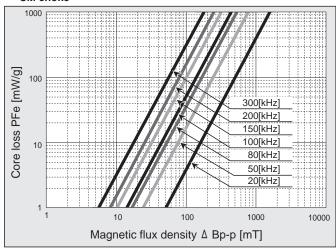


	Cross	Magnetic		Outsid	e Dime	nsions	Inducta	nce Coe	fficient AL Value	DIAC
Core Part No.	Sectional Area [cm²]	Path Length [cm]	Weight [g]	φD [mm]	φd [mm]	W [mm]	0Α [μΗ]	Rating* [µH]	Rated Current Ampere Turn [AT]	BIAS CHARACTERISTICS Graph
LNC181210G	0.26	4.71	11	20.2	8.8	11.8	0.122	0.116	150	
LNC191305G	0.13	5.03	6	22.0	10.0	8.0	0.050	0.045	200	
LNC221310G	0.40	5.50	17	24.7	10.5	12.0	0.164	0.147	190	1
LNC251510G	0.44	6.28	23	28.3	12.7	12.3	0.133	0.120	300	
LNC251515G	0.66	6.28	35	28.3	12.7	17.5	0.185	0.170	330	
LNC322010G	0.53	8.17	36	35.2	17.5	12.3	0.137	0.125	330	
LNC372310G	0.62	9.42	47	40.5	19.5	13.0	0.154	0.140	350	
LNC372315G	0.92	9.42	69	40.5	19.5	18.0	0.210	0.190	400	2
LNC462715G	1.25	11.50	113	49.4	22.7	18.0	0.235	0.207	450	
LNC462725G	2.09	11.50	185	49.4	22.7	28.0	0.360	0.320	550	

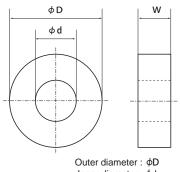
^{*10}kHz, ±25%

◆CORE LOSS CHARACTERISTICS

●CM choke



♦DIMENSIONS OF CORE

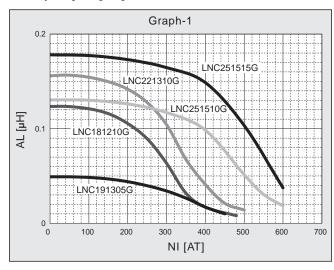


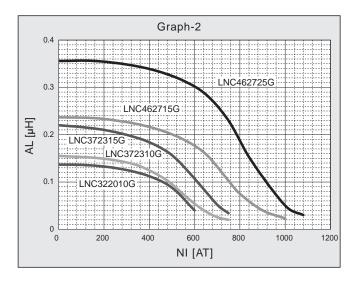
Inner diameter : ϕd Width: W



◆D.C. BIAS CHARACTERISTICS AL-AT

●Frequency: 10[kHz]



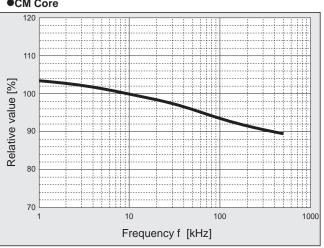


◆MAGNETIC FIELD - MAGNETIC DENSITY

Magnetic flux density B [T] 10000 5000 Magnetic field H [A/m]

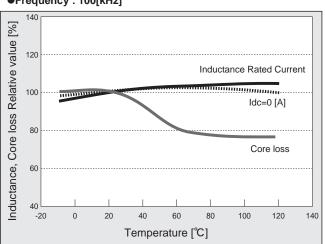
♦FREQUENCY - INDUCTANCE CHARACTERISTICS





♦TEMPERATURE DEPENDENCE - INDUCTANCE AND CORE LOSS

●Frequency: 100[kHz]





AMORPHOUS CHOKE COILS

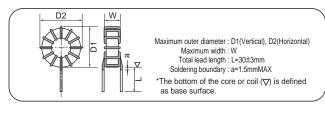
CMSeries

♦MAJOR USES

- ●For Switching Mode Power Supply
- ●Normal mode noise filter

♦FEATURES

- •Achieved significant miniaturization when compared to a ferrite choke
- •Reduced high frequency iron loss when compared to a silicon steel choke
- •Excellent DC superimposition characteristics and temperature characteristics when compared to a dust choke
- •Unidirectional leakage flux enables parts to be mounted adjacently adjacent mounting parts.



		Rated	Peak	Inductano	ce (10kHz)	D.C.R.	Winding	Outsid	de Dimer	nsions	D.C. BIAS
Coil Part No.	Core Part No.	Current [A]	Current [A]	0Α [μΗ]	Rating [µH]	mΩ (max)	mm φ-lines	D1 [mm]	D2 [mm]	W [mm]	CHARACTERISTICS Graph
LACM002601G3-V0E		2	2.8	645	600	190	0.6-1P	23.5	24.0	16.0	
LACM003401G3-V0E		3	4.2	420	400	92	0.8-1P	24.5	25.0	17.5	
LACM004201G3-V0E	LNC181210G	4	5.7	209	200	51	0.9-1P	24.5	25.0	16.5	1
LACM006101G3-V0E		6	8.5	110	100	24	0.8-2P	24.5	25.0	17.5	
LACM008700G3-V0E		8	11.3	85	70	17	0.9-2P	25.0	25.5	19.0	
LACM002401G4-V0E		2	2.8	425	400	190	0.6-1P	24.5	25.0	12.5	
LACM003251G4-V0E		3	4.2	265	250	87	0.8-1P	25.5	26.0	13.5	
LACM004101G4-V0E	I NO4040050	4	5.7	110	100	43	0.9-1P	25.5	26.0	13.0	
LACM006500G4-V0E	LNC191305G	6	8.5	55	50	20	0.8-2P	25.5	26.0	14.0	2
LACM008300G4-V0E		8	11.3	33	30	13	0.9-2P	26.0	26.5	14.0	
LACM010150G4-V0E		10	14.1	18	15	8	1.0-2P	26.5	27.0	13.5	
LACM001152G6-V0E		1	1.4	1530	1500	390	0.5-1P	27.0	27.5	15.5	
LACM002102G6-V0E		2	2.8	1050	1000	230	0.6-1P	27.5	28.0	16.0	
LACM003601G6-V0E	LNC221310G	3	4.2	690	600	110	0.8-1P	28.0	28.5	18.0	3
LACM004301G6-V0E		4	5.7	339	300	59	0.9-1P	28.5	29.0	17.0	
LACM005151G6-V0E		5	7.1	165	150	34	1.0-1P	28.5	29.0	17.5	
LACM006151G6-V0E		6	8.5	171	150	27	0.8-2P	28.0	28.5	17.5	
LACM010500G6-V0E	LNC221310G	10	14.1	60	50	11	1.0-2P	28.5	29.0	18.0	
LACM015150G6-V0E		15	21.2	17	15	5	1.0-3P	28.5	29.0	17.5	4
LACM020150G6-V0E		20	28.3	17	15	4	1.0-4P	29.0	29.5	18.5	
LACM010700G6-V0E		10	14.1	85	70	13	1.0-2P	29.5	30.0	18.5	

^{*} The inductance at current O[A] indicates the reference value.







		Rated	Peak	Inductano	e (10kHz)	D.C.R.	Winding	Outsid	de Dimer	nsions	D.C. BIAS
Coil Part No.	Core Part No.	Current [A]	Current [A]	0Α [μΗ]	Rating [µH]	mΩ (max)	mm φ-lines	D1 [mm]	D2 [mm]	W [mm]	CHARACTERISTICS Graph
LACM004401G7-V0E		4	5.7	420	400	77	0.9-1P	32.0	32.5	18.0	
LACM006201G7-V0E		6	8.5	207	200	35	0.8-2P	32.0	32.5	18.0	
LACM006261G7-V0E	LNC251510G	6	8.5	270	260	41	0.8-2P	32.0	32.5	18.5	
LACM008151G7-V0E	LINGZS1510G	8	11.3	160	150	24	0.9-2P	32.5	33.0	18.5	5
LACM010121G7-V0E		10	14.1	140	120	19	1.0-2P	33.0	33.5	19.5	
LACM010101G7-V0E		10	14.1	110	100	16	1.0-2P	32.5	33.0	18.5	
LACM008191G7-V0E		8	11.3	215	190	33	0.9-2P	32.5	33.0	19.5	
LACM015300G7-V0E		15	21.2	35	30	7	1.0-3P	32.5	33.0	19.0	
LACM015500G7-V0E	I NICO545400	15	21.2	55	50	9	1.0-3P	33.0	33.5	19.5	
LACM020300G7-V0E	LNC251510G	20	28.3	35	30	6	1.0-4P	33.0	33.5	20.0	6
LACM025200G7-V0E		25	35.4	26	20	4	1.0-5P	33.5	34.0	20.0	
LACM030130G7-V0E		30	42.4	16	13	3	1.0-6P	34.0	34.5	20.0	
LACM002192G8-V0E		2	2.8	1940	1900	390	0.6-1P	31.0	31.5	22.5	
LACM005301G8-V0E		5	7.1	306	300	58	1.0-1P	33.0	33.5	24.5	
LACM010151G8-V0E	LNC251515G	10	14.1	170	150	22	1.0-2P	33.0	33.5	25.5	7
LACM015700G8-V0E	LINGZS1515G	15	21.2	75	70	11	1.0-3P	33.5	34.0	26.0	
LACM020400G8-V0E		20	28.3	45	40	7	1.0-4P	33.5	34.0	26.0	
LACM025250G8-V0E		25	35.4	27	25	5	1.0-5P	33.5	34.0	26.5	
LACM003102G9-V0E		3	4.2	1070	1000	170	0.8-1P	39.0	39.5	19.0	
LACM006301G9-V0E		6	8.5	335	300	48	0.8-2P	39.5	40.0	19.0	
LACM008251G9-V0E		8	11.3	289	250	37	0.9-2P	39.5	40.0	19.0	
LACM010191G9-V0E	LNC322010G	10	14.1	220	190	21	1.1-2P	41.0	41.5	21.0	8
LACM015850G9-V0E		15	21.2	100	85	10	1.3-2P	41.0	41.5	21.5	
LACM020450G9-V0E		20	28.3	55	45	7	1.2-3P	41.0	41.5	21.5	
LACM030200G9-V0E		30	42.4	23	20	3	1.3-4P	42.0	42.5	22.0	

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





		Rated	Peak	Inductano	e (10kHz)	D.C.R.		Outsid	de Dimer	nsions	D.C. BIAS
Coil Part No.	Core Part No.	Current [A]	Current [A]	0Α [μH]	Rating [µH]	mΩ (max)	Winding mm φ-lines	D1 [mm]	D2 [mm]	W [mm]	CHARACTERISTICS Graph
LACM006501G0-V0E		6	8.5	569	500	61	0.8-2P	44.0	44.5	19.5	
LACM010201G0-V0E		10	14.1	255	200	27	1.0-2P	45.0	45.5	20.0	
LACM015900G0-V0E		15	21.2	135	90	13	1.0-3P	45.0	45.5	20.0	
LACM020500G0-V0E	LNC372310G	20	28.3	70	50	8	1.0-4P	45.0	45.5	20.5	9
LACM025300G0-V0E		25	35.4	38	30	6	1.0-5P	45.0	45.5	20.0	
LACM030250G0-V0E		30	42.4	35	25	5	1.0-6P	45.5	46.0	20.5	
LACM035150G0-V0E		35	49.5	18	15	4	1.0-7P	45.5	46.0	20.5	
LACM004102GJ-V0E		4	5.7	1080	1000	140	0.9-1P	44.0	44.5	23.0	
LACM010301GJ-V0E		10	14.1	380	300	31	1.0-2P	45.0	45.5	25.0	
LACM015121GJ-V0E		15	21.2	137	120	14	1.0-3P	45.5	46.0	25.5	
LACM020700GJ-V0E	LNC372315G	20	28.3	83	70	12	1.0-4P	45.5	46.0	25.5	10
LACM030300GJ-V0E		30	42.4	38	30	4	1.0-6P	45.5	46.0	26.0	
LACM025500GJ-V0E		25	35.4	60	50	7	1.0-5P	46.0	46.5	26.0	
LACM040150GJ-V0E		40	56.6	18	15	3	1.3-5P	46.0	46.5	26.5	
LACM015201GQ-V0E		15	21.2	255	200	20	1.0-3P	54.0	54.5	26.0	
LACM020101GQ-V0E	LNC462715G	20	28.3	125	100	12	1.0-4P	54.5	55.0	25.5	11
LACM035300GQ-V0E	LNC402713G	35	49.5	35	30	5	1.0-7P	55.0	55.5	26.0	
LACM040200GQ-V0E		40	56.6	24	20	3	1.3-5P	55.5	56.0	26.0	
LACM010501GK-V0E		10	14.1	530	500	44	1.0-2P	54.5	55.0	34.5	
LACM015301GK-V0E		15	21.2	350	300	24	1.0-3P	55.0	55.5	36.0	
LACM020201GK-V0E		20	28.3	250	200	15	1.0-4P	55.0	55.5	36.0	
LACM015451GK-V0E		15	21.2	516	450	30	1.0-3P	55.5	56.0	36.5	12
LACM025101GK-V0E		25	35.4	115	100	9	1.0-5P	55.5	56.0	35.5	
LACM030101GK-V0E		30	42.4	115	100	8	1.0-6P	55.5	56.0	36.5	
LACM035500GK-V0E		35	49.5	60	50	6	1.0-7P	56.0	56.5	36.5	

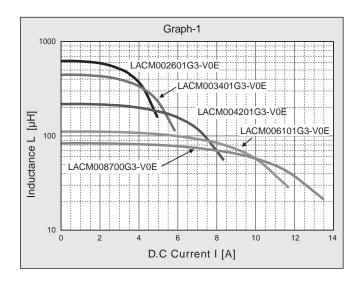
^{*} The inductance at current 0[A] indicates the reference value.

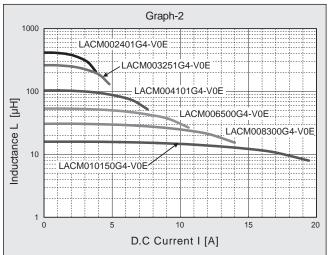


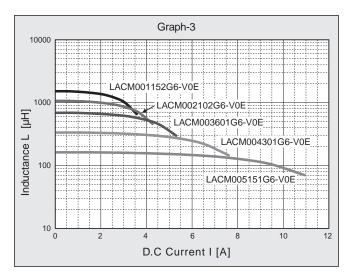
CMSeries

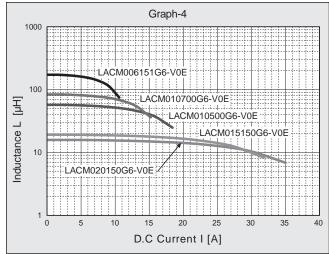
◆D.C. BIAS CHARACTERISTICS

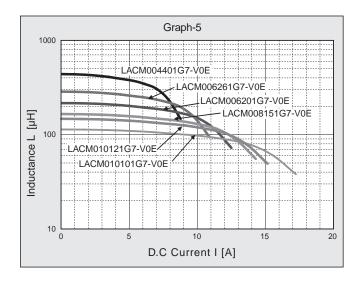
●Frequency: 10[kHz]

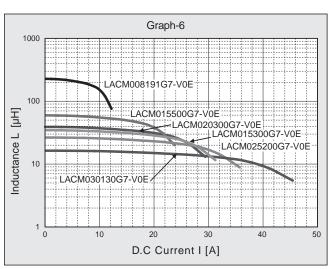










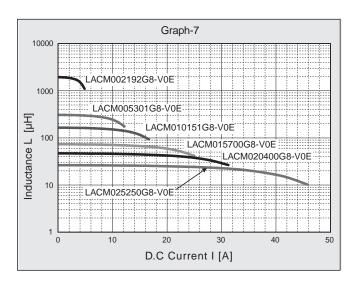


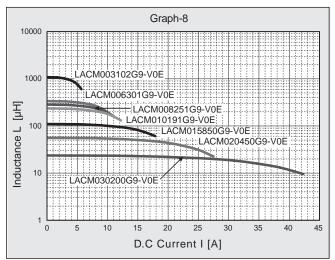


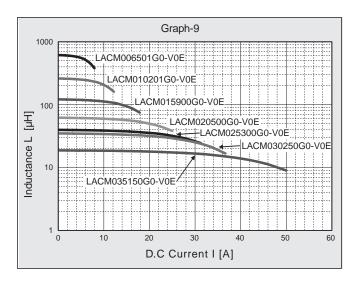
CMSeries

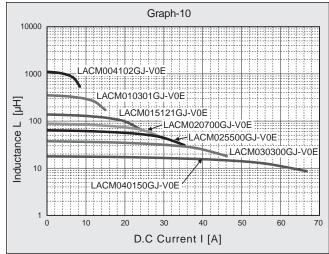
◆D.C. BIAS CHARACTERISTICS

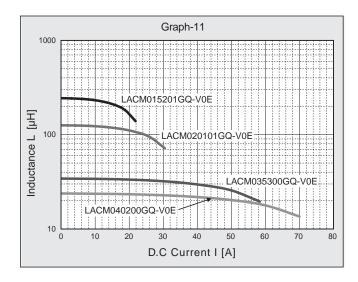
●Frequency: 10[kHz]

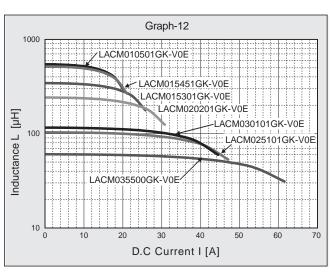


















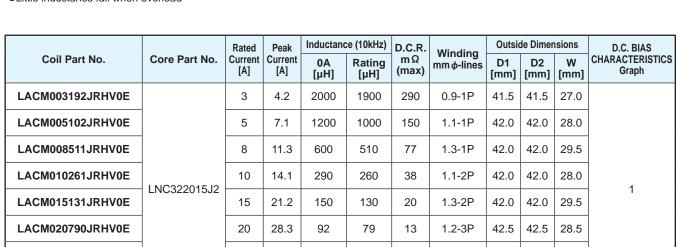
◆MAJOR USES

●For Switching Mode Power Supply Normal mode noise filter

◆FEATURES

Achieved significant miniaturization when compared to the CM Series

•Little inductance fall when overload



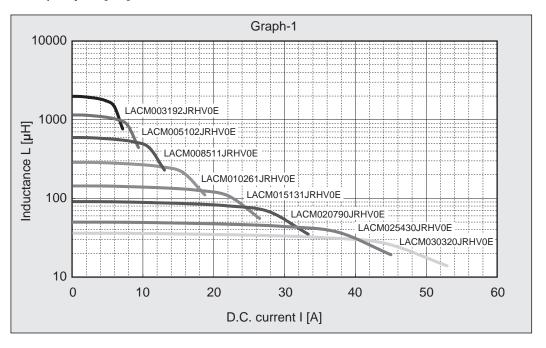
^{*} The inductance at current O[A] indicates the reference value.

◆D.C. BIAS CHARACTERISTICS

●Frequency: 10 [kHz]

LACM025430JRHV0E

LACM030320JRHV0E



25

30

35.4

42.4

50

36

43

32

7

6

1.2-4P

1.3-4P

42.5

42.5

42.5

42.5

28.5

29.5

Maximum outer diameter : D1(Vertical), D2(Horizontal) Maximum width : W
Total lead length* : L=30±3mm
Soldering boundary* : a=1.5mmMAX *The bottom of the core or coil (▽) is defined

as base surface.







♦MAJOR USES

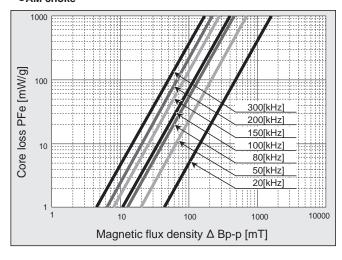
Normal mode noise filter **◆FEATURES**

- Exhibits excellent DC superimposition characteristics of inductance and achieved significant miniaturization
- •Reduced iron loss when compared to the CM Series
- ●Low temperature rise even when using 100V or higher
- Excellent temperature stability

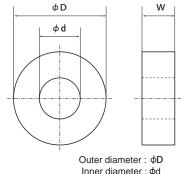
	Cross	Magnetic		Outsid	e Dime	nsions	Inducta	nce Coe	fficient AL Value	BIAS
Core Part No.	Sectional Area [cm²]	Path Length [cm]	Weight [g]	φD [mm]	φd [mm]	W [mm]	0Α [μΗ]	Rating* [µH]	Rated Current Ampere Turn [AT]	CHARACTERISTICS Graph
LNC251510J3	0.43	6.28	23	28.3	12.7	12.3	0.100	0.075	430	
LNC251515J2	0.65	6.28	34	28.3	12.7	17.5	0.140	0.113	460	1
LNC322015J2	0.77	8.17	52	35.2	17.5	17.3	0.122	0.102	600	I
LNC322020J2	1.03	8.17	69	35.5	17.0	23.8	0.156	0.125	660	
LNC372320J2	1.20	9.42	90	40.5	19.5	23.0	0.173	0.140	700	
LNC462720J2	1.63	11.50	147	49.4	22.7	23.0	0.191	0.156	840	2
LNC462725J2	2.04	11.50	182	49.4	22.7	28.0	0.230	0.183	900	2
LNC603525J2	2.69	14.90	323	66.7	29.3	29.2	0.230	0.166	1300	

^{*100}kHz, ±25%

◆CORE LOSS CHARACTERISTICS ●AM choke



♦DIMENSIONS OF CORE

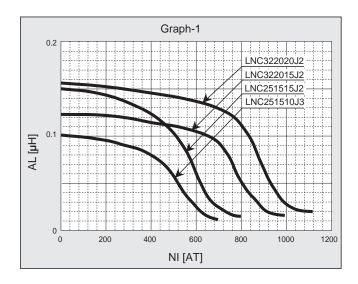


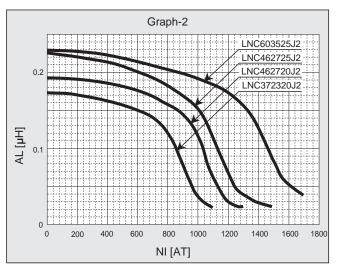
Inner diameter : ϕd Width : W



◆D.C. BIAS CHARACTERISTICS AL-AT

•Frequency: 100[kHz]





♦FREQUENCY - INDUCTANCE CHARACTERISTICS

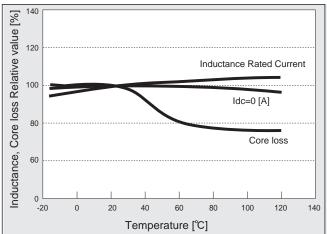
●AM choke

120 110 Relative value [%] 100 90 80 Frequency f [kHz]

◆TEMPERATURE DEPENDENCE

- INDUCTANCE AND CORE LOSS

●Frequency: 100[kHz]



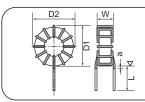


■MAJOR USES

Normal mode noise filter

■FEATURES

- ●Exhibits excellent DC superimposition characteristics of inductance and achieved significant miniaturization
- ●Reduced iron loss when compared to the CM Series
- ●Low temperature rise even when using 100V or higher
- Excellent temperature stability



Maximum outer diameter : D1(Vertical), D2(Horizontal) Maximum width : W
Total lead length* : L=30±3mm
Soldering boundary* : a=1.5mmMAX

*The bottom of the core or coil (♥) is defined as base surface.

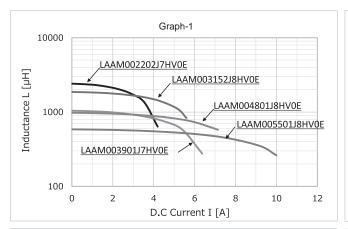
		Core Part No. Rated		Peak			D.O.IX.	- winding		de Dimer	nsions	D.C. BIAS
Coil Part No.	Core Part No.	Current [A]	Current [A]	0Α [μH]	Rating [µH]	mΩ (max)	mm φ-lines	D1 [mm]	D2 [mm]	W [mm]	CHARACTERISTICS Graph	
LAAM002202J7HV0E	LNC251510J3	2	2.8	2400	2000	350	0.7-1P	33.0	34.5	19.0		
LAAM003901J7HV0E	LNC25151005	3	4.2	1100	900	170	0.9-1P	33.0	34.5	19.5		
LAAM004801J8HV0E		4	5.7	1100	800	150	0.9-1P	34.0	34.0	25.5	1	
LAAM005501J8HV0E	LNC251515J2	5	7.1	600	500	80	1.1-1P	34.5	34.5	28.0		
LAAM003152J8HV0E		3	4.2	2000	1500	230	0.85-1P	35.5	35.5	26.0		
LAAM004102JRHV0E	I NOOOOOAF IO	4	5.7	1200	1000	160	1.0-1P	40.5	42.0	26.5	0	
LAAM005751JRHV0E	LNC322015J2	5	7.1	890	750	110	1.1-1P	40.5	42.0	27.0	2	
LAAM005901JAHV0E		5	7.1	1000	900	115	1.1-1P	40.5	42.0	32.0		
LAAM006651JAHV0E	LNC322020J2	6	8.5	740	650	87	1.2-1P	41.0	42.5	32.5		
LAAM006801JBHV0E		6	8.5	970	800	94	1.2-1P	45.0	46.5	30.5	3	
LAAM005122JBHV0E		5	7.1	1500	1200	140	1.1-1P	45.5	47.0	31.5		
LAAM008501JBHV0E		8	11.3	600	500	53	1.0-2P	46.5	48.0	32.0		
LAAM008801JCHV0E		8	11.3	1000	800	73	1.0-2P	56.0	57.5	33.5		
LAAM010501JCHV0E	LNC462720J2	10	14.1	600	500	45	1.1-2P	54.5	56.0	32.5	4	
LAAM012351JCHV0E		12	17	420	350	33	1.2-2P	55.0	56.5	32.0		
LAAM010651JKHV0E		10	14.1	840	650	53	1.1-2P	56.0	57.5	38.0		
LAAM012451JKHV0E	LNC462725J2	12	17	590	450	41	1.2-2P	55.5	57.0	38.0	5	
LAAM015301JKHV0E		15	21.2	380	300	26	1.1-3P	55.5	57.0	38.0		
LAAM012701JLHV0E		12	17	860	700	53	1.2-2P	72.5	74.0	39.0		
LAAM015451JLHV0E	LNC603525J2	15	21.2	550	450	35	1.1-3P	72.0	73.5	40.0	6	
LAAM020251JLHV0E		20	28.3	310	250	20	1.1-4P	72.5	74.0	39.0		

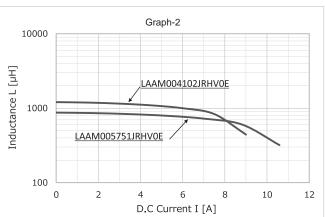
^{*} The inductance at current 0[A] indicates the reference value. * LAAM002202J7HV0E : 10kHz.

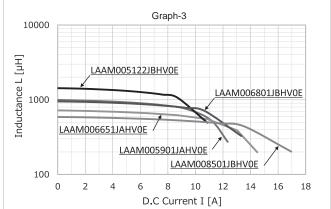


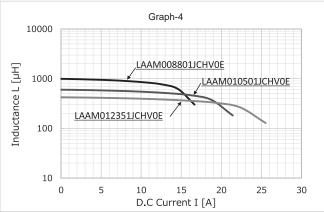
◆D.C. BIAS CHARACTERISTICS

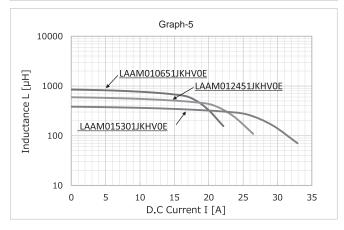
●Frequency: 100[kHz]

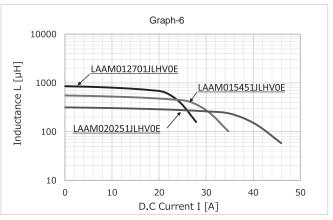


















♦MAJOR USES

●For PFC (for high current) Normal mode noise filter

◆FEATURES

- •Exhibits excellent DC superimposition characteristics of inductance.
- •Reduced iron loss when compared to the AM Series

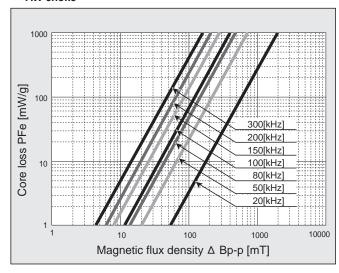


	Cross	Magnetic		Outsid	e Dime	nsions	Inducta	nce Coe	fficient AL Value	BIAS	
Core Part No.	Sectional Area [cm²]	Path Length [cm]	Weight [g]	φD [mm]	φd [mm]	W [mm]	0Α [μΗ]	Rating*	Rated Current Ampere Turn [AT]	CHARACTERISTICS Graph	
LNW462715J2	1.25	11.50	113	49.40	22.70	18.00	0.076	0.061	1760		
LNW462720J2	1.63	11.50	147	49.40	22.70	23.00	0.094	0.080	1800	4	
LNW462725J2	2.04	11.50	182	49.40	22.70	28.00	0.133	0.106	1900	1	
LNW603525J2	2.69	14.90	323	66.70	29.30	29.20	0.135	0.109	2500		

^{*100}kHz, ±25%

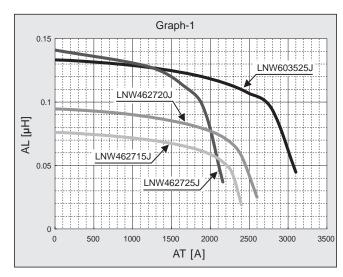
◆CORE LOSS CHARACTERISTICS (Magnetic Flux Density Dependency)

●AW choke

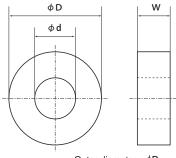


◆D.C. BIAS CHARACTERISTICS AL-AT

●Frequency: 100[kHz]



♦DIMENSIONS OF CORE



Outer diameter : φD Inner diameter : φd Width: W



AMORPHOUS CHOKE COILS

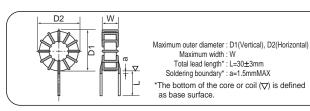
AWSeries

♦MAJOR USES

●For PFC (for high current) Normal mode noise filter

◆FEATURES

- Exhibits excellent DC superimposition characteristics of inductance.
- •Reduced iron loss when compared to the AM Series

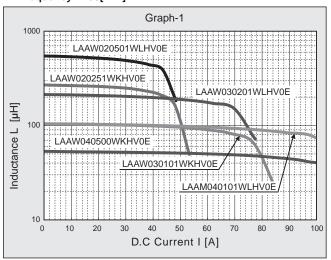


		Rated	Peak	Inductanc	e (100kHz)	D.C.R.	Winding	Outsi	de Dimer	nsions	D.C. BIAS
Coil Part No.	Core Part No.	Current [A]	Current [A]	0Α [μH]	Rating* [µH]	mΩ (max)	mm φ-lines	D1 [mm]	D2 [mm]	W [mm]	CHARACTERISTICS Graph
LAAW030101WKHV0E		30	42.4	105	100	10	1.3-4P	57.0	57.0	41.5	
LAAW040500WKHV0E	LNW462725J2	40	56.6	53	50	6	1.5-4P	57.0	57.0	41.5	
LAAW020251WKHV0E		20	28.3	270	250	20	1.0-5P	59.0	59.0	41.5	4
LAAW020501WLHV0E		20	28.3	546	500	35	1.0-5P	78.5	78.5	46.0	1
LAAW030201WLHV0E	LNW603525J2	30	42.4	213	200	15	1.3-4P	78.5	78.5	46.0	
LAAW040101WLHV0E		40	56.6	105	100	10	1.5-4P	78.5	78.5	46.0	

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

♦D.C. BIAS CHARACTERISTICS

●Frequency: 100[kHz]









◆MAJOR USES

●For Switching Mode Power Supply Normal mode noise filter

♦FEATURES

- •Great reduction of core loss enabling low temperature rise at high frequency
- •Achieved significant miniaturization and low D.C. resistance
- ●Low leakage flux due to gap-less structure
- ●Excellent frequency and temperature characteristics

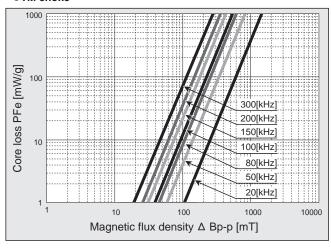


	Cross	Magnetic		Outsid	e Dime	nsions	Inducta	nce Coe	fficient AL Value	BIAS
Core Part No.	Sectional Area [cm²]	Path Length [cm]	Weight [g]	φD [mm]	φd [mm]	W [mm]	0Α [μΗ]	Rating* [µH]	Rated Current Ampere Turn [AT]	CHARACTERISTICS Graph
LPT100805N	0.08	2.84	2	13.0	6.0	6.5	0.100	0.063	70	
LPT130805N	0.13	3.44	4	16.0	5.8	7.4	0.120	0.070	75	
LPT150905N	0.14	3.85	5	17.2	7.3	6.4	0.118	0.063	100	1
LPT160910N	0.29	3.92	10	18.0	7.3	11.9	0.260	0.115	120	
LPT211205N	0.21	5.26	9	23.2	10.2	6.9	0.126	0.060	155	
LPT191210N	0.33	4.95	13	21.9	9.8	11.8	0.212	0.095	160	
LPT221310N	0.40	5.50	18	24.7	10.5	12.0	0.229	0.112	160	2
LPT271510N	0.53	6.60	28	29.7	12.5	12.3	0.253	0.120	200	2
LPT322010N	0.56	8.25	37	35.2	17.5	12.3	0.211	0.090	280	

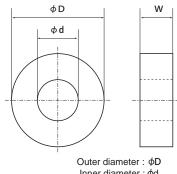
^{*200}kHz, ±25% (LPT100805N: 100kHz, ±25%)

◆CORE LOSS CHARACTERISTICS

●TM choke



♦DIMENSIONS OF CORE

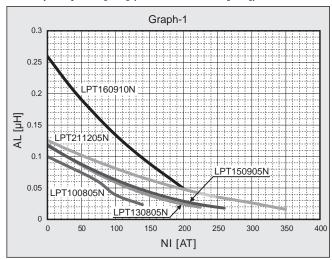


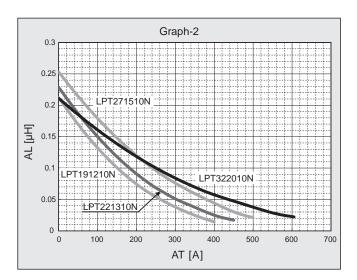
Inner diameter : φd Width : W

TMSeries

◆D.C. BIAS CHARACTERISTICS AL-AT

●Frequency: 200[kHz] (LPT100805N: 100[kHz])

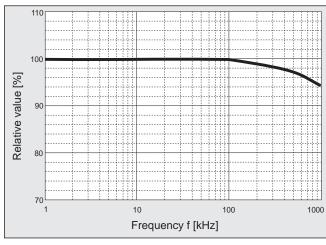




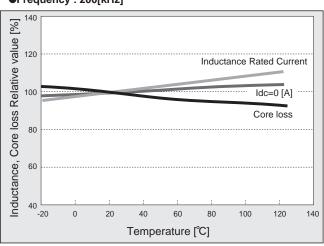
♦FREQUENCY - INDUCTANCE CHARACTERISTICS

◆TEMPERATURE DEPENDENCE - INDUCTANCE AND CORE LOSS

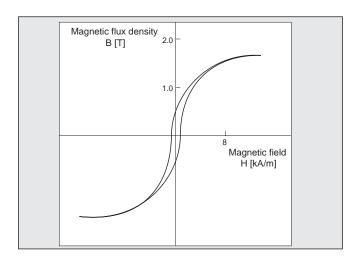
●TM choke



●Frequency : 200[kHz]



♦B-H CURVE



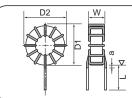
AMORPHOUS CHOKE COILS

♦MAJOR USES

•For Switching Mode Power Supply Normal mode noise filter

◆FEATURES

- •Great reduction of core loss enabling low temperature rise at high frequency
- •Achieved significant miniaturization and low D.C. resistance
- ●Low leakage flux due to gap-less structure
- •Excellent frequency and temperature characteristics



$$\label{eq:maximum} \begin{split} \text{Maximum outer diameter} : & \text{D1(Vertical), D2(Horizontal)} \\ & \text{Maximum width} : W \\ & \text{Total lead length} : L=30\pm3\text{mm} \\ & \text{Soldering boundary} : a=1.5\text{mmMAX} \end{split}$$

*The bottom of the core or coil (▽) is defined as base surface.

		Rated	Inductanc	e (200kHz)	D.C.R.	Winding	Outsid	le Dime	nsions	D.C. BIAS
Coil Part No.	Core Part No.	Current [A]	0Α [μH]	Rating [µH]	mΩ (max)	mm φ-lines	D1 [mm]	D2 [mm]	W [mm]	CHARACTERISTICS Graph
LBTM001201NS-V0E		1	260	200 **	120	0.5-1P	16.0	16.0	11.0	
LBTM002800NS-V0E	LPT100805N	2	120	80 **	60	0.6-1P	16.5	16.5	11.0	
LBTM003270NS-V0E	LFTTUU0003N	3	40	27 **	20	0.8-1P	16.5	17.0	11.5	
LBTM005100NS-V0E		5	14	10 **	9	1.0-1P	17.0	17.5	11.5	
LBTM001201N1-V0E		1	290	200	150	0.5-1P	18.5	19.0	10.5	
LBTM001251N1-V0E		1	400	250	170	0.5-1P	18.5	19.0	11.0	1
LBTM001301N1-V0E		1	430	300	170	0.5-1P	19.5	19.5	11.5	
LBTM002101N1-V0E	LPT130805N	2	160	100	70	0.6-1P	19.5	19.5	11.5	
LBTM003400N1-V0E		3	69	40	27	0.8-1P	19.5	19.5	11.5	
LBTM004250N1-V0E		4	43	25	18	0.9-1P	19.5	19.5	11.5	
LBTM005150N1-V0E		5	23	15	11	1.0-1P	19.5	20.0	11.5	
LBTM001401N2-V0E		1	580	400	210	0.5-1P	19.5	20.0	11.0	
LBTM001501N2-V0E		1	770	500	230	0.5-1P	20.0	20.5	11.0	
LBTM002151N2-V0E		2	240	150	89	0.6-1P	20.0	20.5	10.5	
LBTM002201N2-V0E		2	360	200	110	0.6-1P	20.0	20.5	11.0	
LBTM002211N2-V0E	I DT150005N	2	400	210	110	0.6-1P	20.5	21.0	11.5	2
LBTM003700N2-V0E	LPT150905N	3	110	70	36	0.8-1P	20.5	21.0	11.5	2
LBTM004450N2-V0E		4	74	45	24	0.9-1P	21.0	21.5	11.5	
LBTM004500N2-V0E		4	92	50	24	0.9-1P	21.0	21.5	11.5	
LBTM005300N2-V0E		5	52	30	17	1.0-1P	21.0	21.5	12.0	
LBTM006200N2-V0E		6	34	20	11	0.8-2P	21.0	21.5	12.0	

^{*} The inductance at current 0[A] indicates the reference value.
** This is the inductance at 100kHz.





		Itatea	Inductanc	e (200kHz)	D.C.R.	Winding	Outsid	e Dime	nsions	D.C. BIAS
Coil Part No.	Core Part No.	Current [A]	0Α [μΗ]	Rating [µH]	mΩ (max)	mm φ-lines	D1 [mm]	D2 [mm]	W [mm]	CHARACTERISTICS Graph
LBTM001132N5-V0E		1	2000	1300 **	400	0.5-1P	26.0	27.0	12.0	
LBTM003800N5-V0E		3	120	80	41	0.8-1P	26.5	27.5	11.0	
LBTM003171N5-V0E		3	290	170	59	0.8-1P	26.5	27.5	12.0	
LBTM005750N5-V0E	L DT044005N	5	150	75	27	1.0-1P	27.0	28.0	13.5	
LBTM006450N5-V0E	- LPT211205N	6	85	45	18	0.8-2P	27.0	28.0	13.0	3
LBTM008250N5-V0E		8	45	25	11	0.9-2P	27.0	28.0	13.5	
LBTM010160N5-V0E		10	28	16	7	1.1-2P	28.0	29.0	14.0	
LBTM015080N5-V0E		15	15	8	4	1.1-3P	28.5	29.5	14.5	
LBTM002351NU-V0E		2	700	350	135	0.6-1P	22.0	22.0	16.5	
LBTM003131NU-V0E	L DT400040N	3	230	130	44	0.8-1P	22.5	22.5	17.0	
LBTM005500NU-V0E	LPT160910N	5	94	50	19	1.0-1P	22.5	22.5	16.5	
LBTM008170NU-V0E		8	31	17	7	0.9-2P	22.5	22.5	16.5	
LBTM002621NP-V0E		2	1200	620	150	0.7-1P	25.0	25.5	16.5	
LBTM003291NP-V0E		3	550	290	76	0.8-1P	25.0	25.5	16.0	4
LBTM004161NP-V0E		4	320	160	46	0.9-1P	25.0	25.0	16.5	4
LBTM006700NP-V0E	LPT191210N	6	130	70	19	0.8-2P	25.0	25.5	16.0	
LBTM008400NP-V0E	LF1191210M	8	77	40	12	0.9-2P	25.0	25.0	16.5	
LBTM005101NP-V0E		5	190	100	29	1.0-1P	25.5	26.0	16.5	
LBTM010270NP-V0E		10	54	27	7	1.1-2P	26.0	26.0	17.0	
LBTM015120NP-V0E		15	26	12	4	1.1-3P	26.0	26.0	17.5	

^{*} The inductance at current 0[A] indicates the reference value.
** This is the inductance at 100kHz.





		Rated		e (200kHz)	D.C.R.	Winding	Outsid	le Dime	nsions	D.C. BIAS
Coil Part No.	Core Part No.	Current [A]	0Α [μH]	Rating [µH]	mΩ (max)	mm φ-lines	D1 [mm]	D2 [mm]	W [mm]	CHARACTERISTICS Graph
LBTM002701N6-V0E		2	1200	700	150	0.7-1P	27.5	28.0	16.5	
LBTM003181N6-V0E		3	260	180	50	0.8-1P	27.5	28.0	15.0	
LBTM003351N6-V0E		3	640	350	82	0.8-1P	27.5	28.0	16.5	
LBTM004101N6-V0E	-	4	140	100	33	0.9-1P	27.5	28.0	16.0	
LBTM004201N6-V0E		4	370	200	48	0.9-1P	28.0	28.5	16.5	
LBTM006850N6-V0E	LPT221310N	6	170	85	22	0.8-2P	28.0	28.5	17.0	5
LBTM008450N6-V0E		8	83	45	13	0.9-2P	28.0	28.5	17.0	
LBTM005131N6-V0E	-	5	250	130	34	1.0-1P	28.5	29.0	17.0	
LBTM015160N6-V0E		15	33	16	5	1.1-3P	28.5	29.0	18.5	
LBTM010300N6-V0E	-	10	51	30	7	1.1-2P	29.0	29.5	17.5	
LBTM020100N6-V0E		20	23	10	4	1.3-3P	29.5	30.0	19.0	
LBTM002901N7-V0E		2	1500	900	240	0.6-1P	32.0	32.5	15.5	
LBTM002112N7-V0E		2	1800	1100	190	0.7-1P	32.5	33.0	16.5	
LBTM003481N7-V0E		3	820	480	94	0.8-1P	32.5	33.0	16.5	
LBTM005141N7-V0E		5	240	140	34	1.0-1P	33.0	33.5	16.0	
LBTM005211N7-V0E	LPT271510N	5	390	210	42	1.0-1P	33.0	33.5	17.5	6
LBTM015260N7-V0E		15	65	26	6	1.1-3P	33.5	34.0	18.0	
LBTM010500N7-V0E		10	100	50	11	1.1-2P	34.0	34.5	18.0	
LBTM010300N7-V0E		10	45	30	7	1.6-1P	35.5	36.0	18.5	
LBTM025100N7-V0E		25	25	10	3	1.6-2P	35.5	36.0	19.0	
LBTM003501N9-V0E		3	840	500	120	0.8-1P	38.5	39.0	18.5	
LBTM005281N9-V0E		5	530	280	61	1.0-1P	39.5	40.0	19.0	
LBTM005301N9-V0E		5	550	300	62	1.0-1P	39.5	40.0	19.0	
LBTM015400N9-V0E	I DT222040N	15	93	40	8	1.1-3P	39.5	40.0	20.0	
LBTM020200N9-V0E		20	41	20	5	1.3-3P	40.5	41.0	20.5	-
LBTM010800N9-V0E		10	170	80	15	1.1-2P	41.0	41.5	20.5	
LBTM020130N9-V0E		20	21	13	4	1.3-3P	41.0	41.5	19.5	
LBTM010600N9-V0E		10	110	60	12	1.6-1P	41.5	42.0	20.0	

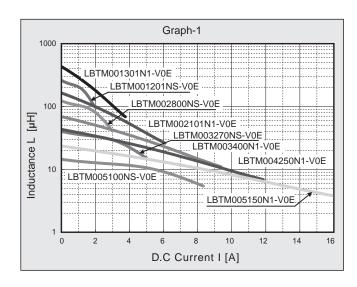
^{*} The inductance at current O[A] indicates the reference value.

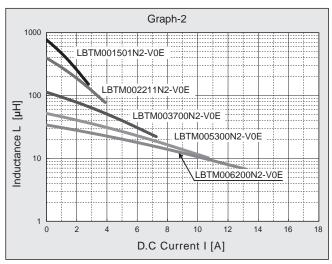


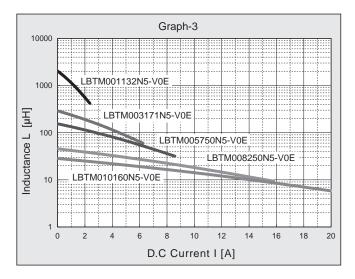
TMSeries

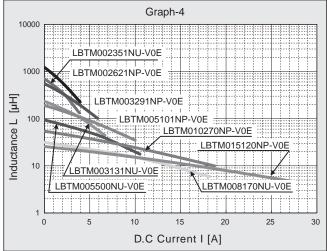
◆D.C. BIAS CHARACTERISTICS

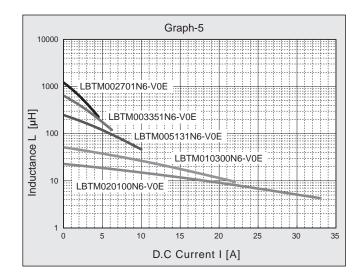
•Frequency : 200[kHz]

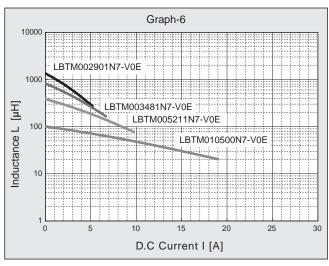


















◆MAJOR USES

●For Switching Mode Power Supply Normal mode noise filter

◆FEATURES

- •Improved DC superimposition characteristics when compared to the TM Series
- •Low leakage flux due to gap-less structure

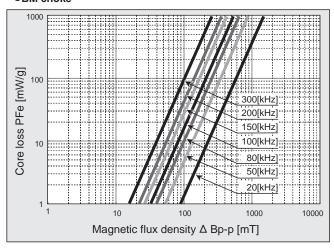


	Cross	Magnetic		Outsid	e Dime	nsions	Inducta	nce Coe	fficient AL Value	BIAS
Core Part No.	Sectional Area [cm²]	Path Length [cm]	Weight [g]	φD [mm]	φd [mm]	W [mm]	0Α [μΗ]	Rating*	Rated Current Ampere Turn [AT]	CHARACTERISTICS Graph
LPB150905N	0.14	3.85	5	17.2	7.3	6.4	0.079	0.047	100	
LPB190910N	0.45	4.49	16	21.6	7.3	11.9	0.248	0.100	200	
LPB221310N	0.40	5.50	18	24.7	10.5	12.0	0.153	0.065	240	1
LPB251510N	0.43	6.28	25	28.3	12.7	12.3	0.153	0.068	270	
LPB251515N	0.65	6.28	36	28.3	12.7	17.5	0.226	0.091	300	
LPB322015N	0.77	8.17	54	35.2	17.5	17.3	0.229	0.091	350	
LPB372315N	0.92	9.42	69	40.5	19.5	18.0	0.209	0.096	375	2
LPB462715N	1.25	11.50	112	49.4	22.7	18.0	0.232	0.084	600	2
LPB462720N	1.63	11.50	148	49.4	22.7	23.0	0.310	0.112	600	

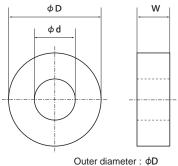
^{*200}kHz, ±25%

CORE LOSS CHARACTERISTICS

●BM choke



♦DIMENSIONS OF CORE

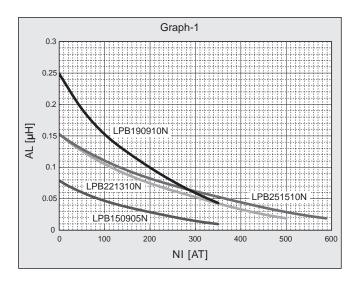


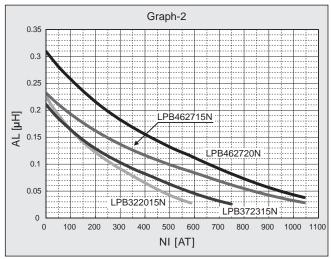
Inner diameter : ϕd Width: W



◆D.C. BIAS CHARACTERISTICS AL-AT

●Frequency: 200[kHz]

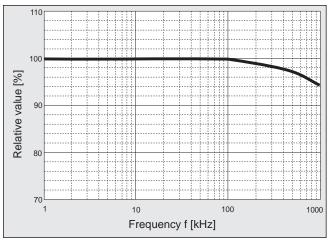




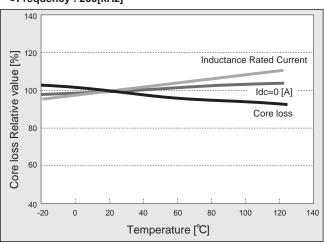
♦FREQUENCY - INDUCTANCE CHARACTERISTICS

◆TEMPERATURE DEPENDENCE - INDUCTANCE AND CORE LOSS

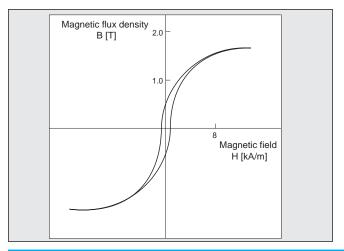
●BM choke



•Frequency : 200[kHz]



◆B-H CURVE





AMORPHOUS CHOKE COILS

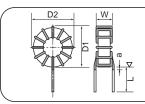
♦MAJOR USES

•For Switching Mode Power Supply Normal mode noise filter

◆FEATURES

•Improved DC superimposition characteristics when compared to the TM Series

•Low leakage flux due to gap-less structure



Maximum outer diameter : D1(Vertical), D2(Horizontal)
Maximum width : W
Total lead length : L=30±3mm
Soldering boundary : a=1.5mmMAX

*The bottom of the core or coil (∇) is defined as base surface.

		Rated	Inductanc	e (200kHz)	D.C.R.	Min din a	Outsid	le Dime	nsions	D.O. DIAG
Coil Part No.	Core Part No.	Current [A]	0Α [μH]	Rating [µH]	mΩ (max)	Winding mm φ-lines	D1 [mm]	D2 [mm]	W [mm]	CHARACTERISTICS Graph
LBBM003421X6-V0E		3	980	420 **	130	0.8-1P	29.0	29.0	17.5	
LBBM005161X6-V0E		5	360	160	55	1.0-1P	29.0	29.0	18.0	
LBBM008600X6-V0E		8	140	60	20	0.9-2P	29.0	29.0	18.0	
LBBM010300X6-V0E		10	62	30	11	1.0-2P	29.0	29.0	18.0	
LBBM015150X6-V0E	LPB221310N	15	35	15	6	1.0-3P	29.5	29.5	18.5	1
LBBM020100X6-V0E		20	23	10	4	1.0-4P	29.5	29.5	18.5	
LBBM025060X6-V0E		25	13	6	2	1.2-4P	30.0	30.0	19.0	
LBBM0303R6X6-V0E		30	7.5	3.6	2	1.3-4P	31.0	31.0	19.5	
LBBM003551X7-V0E		3	1300	550 **	150	0.8-1P	32.5	32.5	18.0	
LBBM005201X7-V0E		5	460	200	60	1.0-1P	32.0	32.5	18.0	
LBBM008800X7-V0E		8	190	80	26	0.9-2P	32.5	33.0	18.5	
LBBM010500X7-V0E		10	120	50	16	1.0-2P	32.5	33.0	18.5	
LBBM015270X7-V0E	1 DD054540N	15	65	27	8	1.0-3P	33.0	33.5	19.0	
LBBM020150X7-V0E	LPB251510N	20	36	15	5	1.2-3P	33.5	33.5	20.0	2
LBBM025090X7-V0E		25	24	9	3	1.2-4P	33.5	33.5	21.0	
LBBM035050X7-V0E		35	13	5	3	1.4-4P	34.0	34.0	21.0	
LBBM030070X7-V0E		30	16	7	3	1.3-4P	34.5	34.5	21.0	
LBBM0403R4X7-V0E		40	8	3.4	2	1.4-5P	35.0	35.0	21.0	

^{*} The inductance at current 0[A] indicates the reference value.
** This is the inductance at 100kHz.





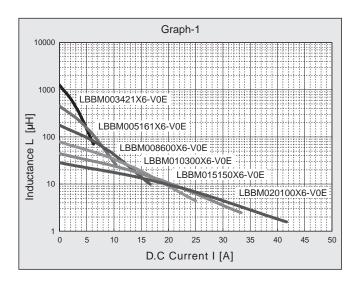
		Rated	Inductanc	e (200kHz)	D.C.R.	Min din a	Outsid	le Dime	nsions	OUA DA OTERNOTIOS
Coil Part No.	Core Part No.	Current [A]	0Α [μH]	Rating [µH]	mΩ (max)	Winding mm φ-lines	D1 [mm]	D2 [mm]	W [mm]	CHARACTERISTICS Graph
LBBM003801X8-V0E		3	1800	800 **	185	0.8-1P	33.0	33.0	24.5	
LBBM005351X8-V0E		5	820	350	85	1.0-1P	34.0	34.0	24.5	
LBBM008121X8-V0E		8	280	120	30	1.3-1P	34.0	34.0	24.5	
LBBM010750X8-V0E		10	170	75	17	1.1-2P	34.0	34.0	25.5	
LBBM020210X8-V0E	I DD054545N	20	51	21	6	1.2-3P	34.0	34.0	26.0	
LBBM015350X8-V0E	LPB251515N	15	82	35	9	1.3-2P	34.5	34.5	25.0	3
LBBM025130X8-V0E		25	33	13	4	1.2-4P	35.0	35.0	26.0	
LBBM0357R5X8-V0E		35	18	7.5	3	1.4-4P	35.0	35.0	27.5	
LBBM030090X8-V0E		30	23	9	3	1.3-4P	35.5	35.5	27.0	
LBBM040050X8-V0E		40	11	5	2	1.4-5P	36.5	36.5	26.5	
LBBM003122XR-V0E		3	2800	1200 **	155	1.0-1P	41.5	41.5	26.5	
LBBM005481XR-V0E		5	1000	480	100	1.1-1P	41.0	41.0	25.5	
LBBM008191XR-V0E		8	430	190	40	1.3-1P	41.5	41.5	25.5	
LBBM015570XR-V0E		15	130	57	13	1.3-2P	41.5	41.5	26.0	
LBBM025200XR-V0E		25	48	20	5	1.2-4P	41.5	41.5	26.0	
LBBM010121XR-V0E	LPB322015N	10	260	120	22	1.1-2P	42.0	42.0	26.0	4
LBBM020310XR-V0E		20	68	31	7	1.2-3P	42.0	42.0	26.0	
LBBM030140XR-V0E		30	30	14	4	1.3-4P	42.0	42.0	27.0	
LBBM0359R5XR-V0E		35	21	9.5	3	1.4-4P	42.0	42.0	26.0	
LBBM0406R5XR-V0E		40	14	6.5	2	1.4-5P	42.5	42.5	26.5	
LBBM0454R9XR-V0E		45	10	4.9	2	1.3-6P	42.5	42.5	26.5	

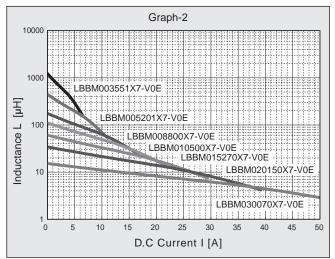
^{*} The inductance at current 0[A] indicates the reference value.
** This is the inductance at 100kHz.

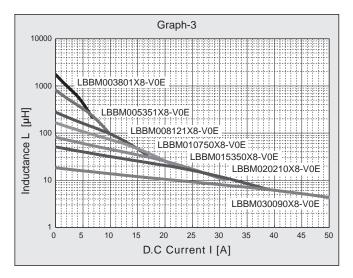


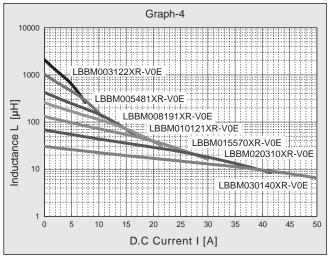
◆D.C. BIAS CHARACTERISTICS

●Frequency : 200[kHz]













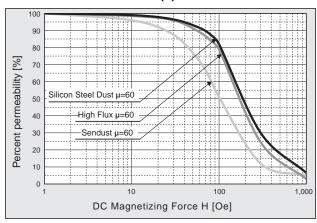
◆MAJOR USES

•For PFC For Switching Mode Power Supply

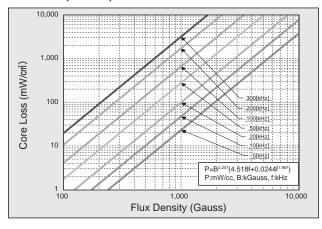
◆FEATURES

- Excellent frequency and temperature characteristics
- Exhibits high saturation magnetic flux density, excellent DC superimposition characteristics, and achieved significant miniaturization

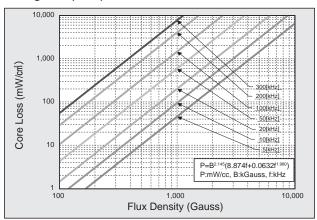
◆D.C. bias of Dust core (1)



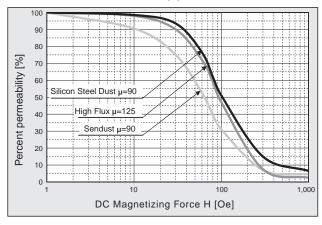
◆Core Loss Characteristics (1) (Magnetic Flux Density Dependency) ●Sendust(Fe-Si-Al)



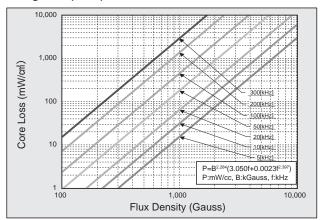
◆Core Loss Characteristics (3) (Magnetic Flux Density Dependency) •Mega flax (Fe-Si)



◆D.C. bias of Dust core (2)



◆Core Loss Characteristics (2) (Magnetic Flux Density Dependency) ●High Flux(Fe-Ni)







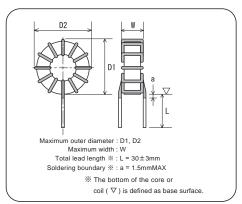
●Permissible end-to-end voltage of coils: 250V

♦MAJOR USES

•For PFC For Switching Mode Power Supply

♦FEATURES

- Excellent frequency and temperature characteristics
- Exhibits high saturation magnetic flux density, excellent DC superimposition characteristics, and achieved significant miniaturization
- ●Permissible end-to-end voltage of coils : 250V



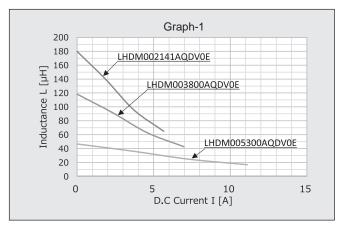
	Rated	Inductanc	e (100kHz)	D.C.R.	Winding	Outsid	le Dime	nsions	D.C. DIAS
Coil Part No.	Current [A]	0Α [μH]	Rating [µH]	mΩ (max)	mm φ-lines	D1 [mm]	D2 [mm]	W [mm]	CHARACTERISTICS Graph
LHDM002141AQDV0E	2	190	135	78	0.7-1P	22.5	23.5	12.5	
LHDM003800AQDV0E	3	120	80	48	0.8-1P	23.0	24.0	13.5	1
LHDM005300AQDV0E	5	46	30	23	1.0-1P	23.5	24.5	14.5	
LHDM002331ARDV0E	2	550	330	150	0.7-1P	26.0	27.0	14.0	
LHDM003101ARDV0E	3	140	100	58	0.8-1P	26.0	27.0	14.0	2
LHDM005550ARDV0E	5	95	55	32	1.0-1P	26.5	27.0	14.5	
LHDM003251AUGV0E	3	360	250	90	0.8-1P	32.5	33.0	14.0	
LHDM005161AUGV0E	5	310	160	55	1.0-1P	33.5	34.0	15.0	3
LHDM010300AUGV0E	10	48	30	14	1.1-2P	34.0	34.5	16.0	
LHDM002951AUDV0E	2	1500	950	260	0.7-1P	32.5	33.5	18.5	
LHDM003231AUDV0E	3	300	230	90	0.8-1P	32.5	33.5	18.5	4
LHDM005141AUDV0E	5	210	140	50	1.0-1P	33.0	34.0	19.0	4
LHDM010330AUDV0E	10	48	33	12	1.6-1P	35.0	36.0	20.5	
LHDM005571AZDV0E	5	800	570	95	1.1-1P	52.5	53.0	26.5	
LHDM010151AZDV0E	10	220	150	28	1.6-1P	55.0	56.0	28.0	5
LHDM020200AZDV0E	20	26	20	6	1.8-2P	55.0	56.0	28.5	

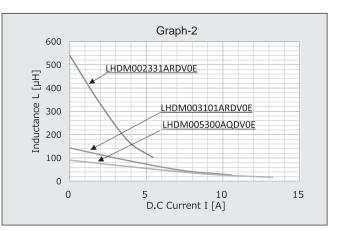
^{*} The inductance at current 0[A] indicates the reference value.

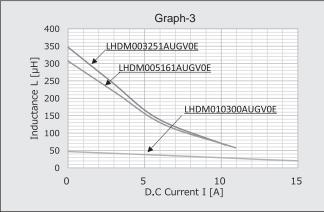


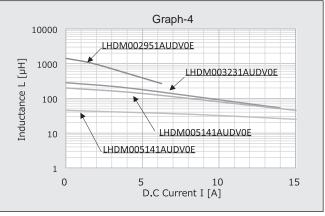
◆D.C. BIAS CHARACTERISTICS

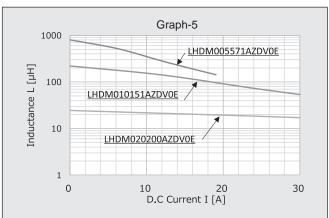
●Frequency: 100[kHz]















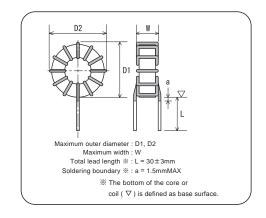
Permissible end-to-end voltage of coils: 250V (Without a core case)
 500V (With a core case)

♦MAJOR USES

●For PFC For Switching Mode Power Supply

♦FEATURES

- Exhibits excellent DC superimposition characteristics and achieved significant miniaturization
- •Great reduction of core loss enabling low temperature rise at high frequency
- ●Ideal for PFC use



	Rated	Inductano	e (100kHz)	D.C.R.	Winding	Outsid	le Dime	nsions	D.C. BIAS	Core
Coil Part No.	Current [A]	0Α [μΗ]	Rating [µH]	mΩ (max)	mm φ-lines	D1 [mm]	D2 [mm]	W [mm]	CHARACTERISTICS Graph	case
LHDM003101CQFV0E	3	115	100	45	0.8-1P	22.0	23.0	13.5	1	
LHDM005570CQFV0E	5	70	57	25	1.0-1P	22.5	23.5	14.5	1	-
LHDM003231CTBV0E	3	250	230	96	0.8-1P	29.0	30.0	16.5		
LHDM005141CTBV0E	5	160	140	52	1.0-1P	29.5	30.5	17.5	2	-
LHDM010330CTBV0E	10	37	33	12	1.6-1P	31.5	32.5	19.5		
LHDM005571CYFV0E	5	710	570	76	1.1-1P	46.5	47.5	23.0		
LHDM010151CYBV0E	10	170	150	28	1.6-1P	47.5	48.5	26.0	3	-
LHDM020200CYBV0E	20	24	20	6	1.8-2P	48.0	49.0	26.5		
LHDM005451DUFV0E	5	620	450	85	1.0-1P	34.5	35.5	22.0		0
LHDM007381DVFV0E	7	640	380	65	1.2-1P	41.5	42.0	21.5	4	0
LHDM008371DVFV0E	8	750	370 **	59	1.3-1P	42.5	43.0	23.0	4	0
LHDM010201DVFV0E	10	340	200	30	1.1-2P	43.5	44.0	23.0		0
LHDM008501DYBV0E	8	570	500 **	68	1.4-1P	50.0	50.5	27.5	5	0
LHDM010401DYBV0E	10	490	400	58	1.5-1P	50.0	50.5	27.0	3	0
LHDM010651DZBV0E	10	760	650 **	72	1.0-2P	57.5	58.0	31.0	6	0
LHDM015301DZBV0E	15	360	300	35	1.3-2P	57.0	57.5	32.0	0	0

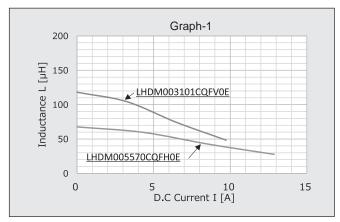
^{*} The inductance at current O[A] indicates the reference value.

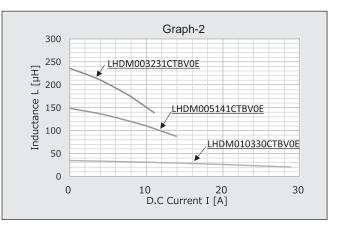
^{**} This is the inductance at 100kHz.

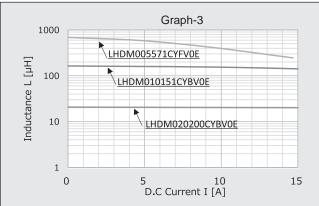


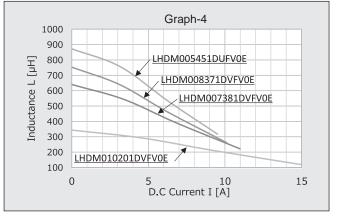


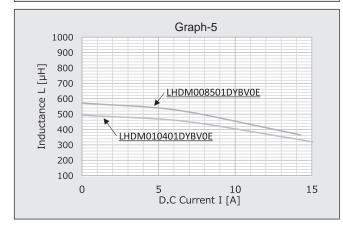
◆D.C. BIAS CHARACTERISTICS

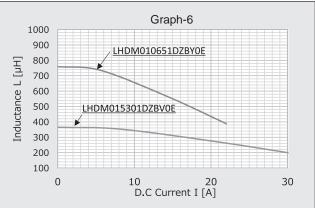












Minimum quantity in a package

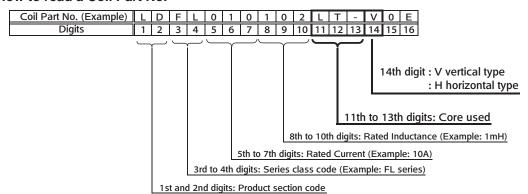
Minimum Packaging Quantity

Please order by units of minimum packaging quantity.

The quantity in a package basically depends on the **core size** and **coil shapes**.

Note that the outside dimensions vary depending on the diameter of the winding and/or the number of turns, therefore, the number of products in a package may differ.

How to read a Coil Part No.



◆Reference quantity in a package (pcs/pack)

Digits in Coil Part No.										
3rd to 4th digits	11th to 13th digits	14th	n digit							
uigits	uigits	Coil	shape							
Series	Core used	V: vertical type	H: horizontal type							
	LS-	200	400							
	L5-	231	192							
	L6-	231	192							
	LT-	100	75							
	LR-	80	75							
FL	LJ-	48	50							
	LBU		50							
	LJU	48	50							
	LNQ		32							
	LGQ		32							
	P1F	270								
	P2D	280								
SM	P7D	200								
Sivi	P5D	280								
	P1B	270								
	G3-	200	192							
	G4-	200	256							
	G6-	231	192							
	G7-	231	75							
	G8-	132	75							
СМ	G9-	100	75							
O.W.	G0-	100	75							
	GJ-	80	75							
	GQ-	64	32							
	GK-	48	32							
	JRH	100	75							
	J7H	231	75							
	J8H	132	75							
	JAH	80	50							
AM	JBH	60	50							
	JCH	48	32							
	JKH	48	32							

Digits in Coil Part No.										
3rd to 4th digits	11th to 13th digits	14th	n digit							
Series	Core used	Coil	shape							
Series	Core useu	V: vertical type	H: horizontal type							
AW	WKH	24	32							
Avv	WLH	18	18							
	NS-	200	400							
	N1-	200	256							
	N2-	200	256							
	NU-	200								
TM	NP-	231	192							
	N5-	231	256							
	N6-	231	192							
	N7-	100	75							
	N9-	100	75							
	X6-	231	192							
BM	X7-	231	75							
BIVI	X8-	132	75							
	XR-	100	75							
	AQD	200								
	ARD	200								
	AUG	231								
	AUD	231								
	AZD	64								
	CQF	200								
DM	СТВ	132								
	CYF	50								
	CYB	50								
	DUF	132								
	DVF	100								
	DYB	32								
	DZB	18								



NANOCRYSTALLINE/AMORPHOUS/DUST CHOKE COILS

◆Coil Design Red				Date	Mor	nth Yea
Customer name						
Doot name			TEL			
Post name			FAX			
Person in charge name)		E-mail			
Target price			Competito	or		
Estimated usage	pcs per month(s)	year(s)	Start of mass	1	/	psc
	Ne	w Design I	nvestigati	ions		
Type:				V		
_	mode power supplies			Normal mode line f		
□Harmonic (Active filter) □Others	counter-measure			Common mode ch	oke coil	
Equipment Classific Equipment Cl	cation: assification (Option)					
Electrical specificati	ion:					
Rated outpu	ıt voltage	[V]	Convers	sion frequency		[kHz]
Output curre		[A]	Ripple		[A p-p]	
Power outpu		[W]	Peak cu			[A]
						
Inductance	at Rated current	[A]			[µH]	_
	at Peak current	[A]			[µH]	_
	(Others)	[A]			[µH]	_
For others:						
Mounting direction	n Vertical or H	orizontal	<u>P</u> e	edestal (Stand)	Yes	or No
Dimension limit (\	res or No) ×	[mm] oi	r less He	eight from substrag	ge	[mm] or less
Ambient temperat	ture	[°C]		emperature rise		[K] or less
Cooling method	Natural or Fo	orced or Ot	hers			
	special instructions on	lead handlin	ıg)			
	•		-			

MEMO

MEMO

MEMO

ELECTRONIC COMPONENTS & DEVICES

PRODUCTS	
	CAT.No.
Aluminum Electrolytic Capacitors	1001
Multilayer Ceramic Capacitors	1002
Film Capacitors	1003
Metal Oxide Varistors TNR™	1006
Nanocrystalline / Amorphous / Dust Choke Coils	1008
Electric Double Layer Capacitors	1009
Camera Modules	

Notes on Safety



- 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. 1Aerospace equipment ② Power generation equipment such as thermal power, nuclear power etc. ③ Medical equipment ① 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.

Note

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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.
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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.
- ■The content of this catalog is as of April 2024

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