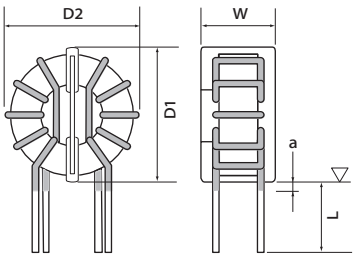
NANOCRYSTALLINE COMMON MODE COILS

FW New! Series

RoHS2 Compliant AEC-Q200

◆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.



Maximum outer diameter : D1(Vertical), D2(Horizontal)
Maximum width : W
Total lead length* : L=20±3mm
Soldering boundary* : a=1.5mmMAX
*The bottom of the core or coil (▽) is defined as base surface.

Coil Part No.	Core Part No.	Rated voltage [V]	Rated Current [A]	Inductance		D.C.R. mΩ (max)	Winding mmϕ -lines	Outside Dimensions			Frequency Characteristics Graph	Temperature rise Graph
				10kHz [mH]	100kHz [mH]			D1 [mm]	D2 [mm]	W [mm]		
LDFW007652Y6-V0E	F221310MDX	250	7	21.0	6.5	22.0	1.0-1P	29.0	31.0	21.0	1	A
LDFW010302Y6-V0E			10	9.7	3.0	11.0	1.2-1P					
LDFW012202Y6-V0E			12	6.5	2.0	7.5	1.3-1P					
LDFW008123YV-V0E	F251513MDX	250	8	37.1	11.5	26.0	1.1-1P	30.5	34.0	23.5	2	B
LDFW011742YV-V0E			11	23.9	7.4	15.0	1.3-1P					
LDFW013412YV-V0E			13	13.2	4.1	10.0	1.4-1P					
LDFW016362Y8-V0E	F262115MDX	500	16	11.6	3.6	7.5	1.8-1P	34.0	37.0	27.5	3	C
LDFW023162Y8-V0E			23	5.2	1.6	3.7	2.1-1P					
LDFW028102Y8-V0E			28	3.2	1.0	2.5	1.6-2P					
LDFW015372YBUV0E	F281815MUDX	700	15	11.9	3.7	6.7	1.7-1P	36.0	39.5	29.5	4	D
LDFW021252YBUV0E			21	8.1	2.5	4.5	1.9-1P					
LDFW026152YBUV0E			26	4.8	1.5	2.9	1.5-2P					
LDFW016732Y22V0E	F312115MDX	500	16	23.5	7.3	7.9	1.9-1P	38.0	43.0	28.5	5	E
LDFW020412Y22V0E			20	13.2	4.1	4.9	2.1-1P					
LDFW025232Y22V0E			25	7.4	2.3	3.1	1.6-2P					
LDFW032142Y22V0E			32	4.5	1.4	1.9	1.8-2P					
LDFW020592YJUV0E	F372315MUDX	700	20	19.0	5.9	5.7	1.5-2P	48.0	50.0	32.5	6	F
LDFW027282YJUV0E			27	9.0	2.8	3.1	1.7-2P					
LDFW039172YJUV0E			39	5.5	1.7	1.8	2.0-2P					
LDFW030392Y28V0E	F443420MDX	600	30	12.6	3.9	3.6	2.0-2P	53.0	59.5	39.0	7	G
LDFW036262Y28V0E			36	8.4	2.6	2.5	2.2-2P					

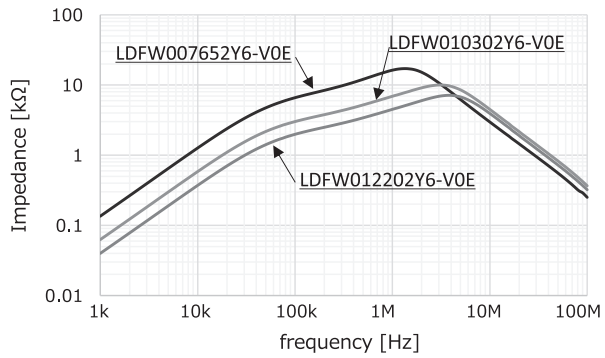
* The inductance at 10kHz indicates the reference value.

FW Series

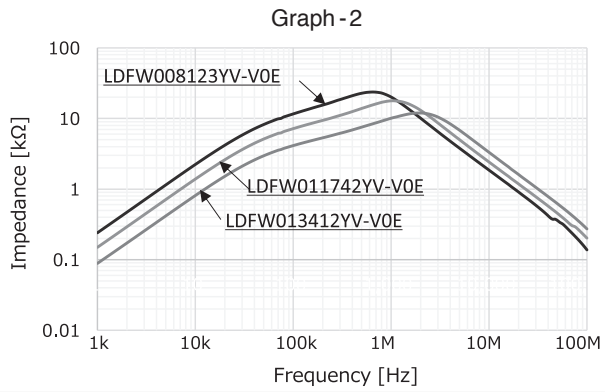
◆FREQUENCY CHARACTERISTICS AMBIENT TEMPERATURE:25°C

●Impedance

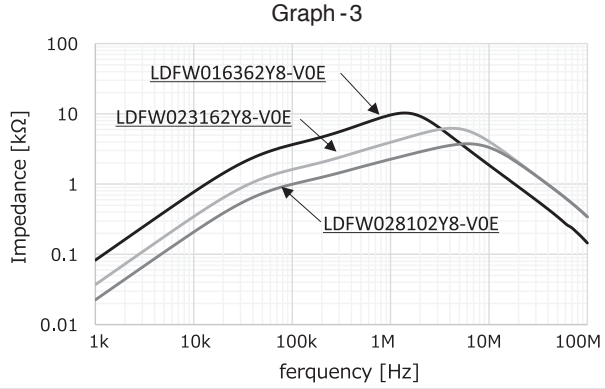
Graph - 1



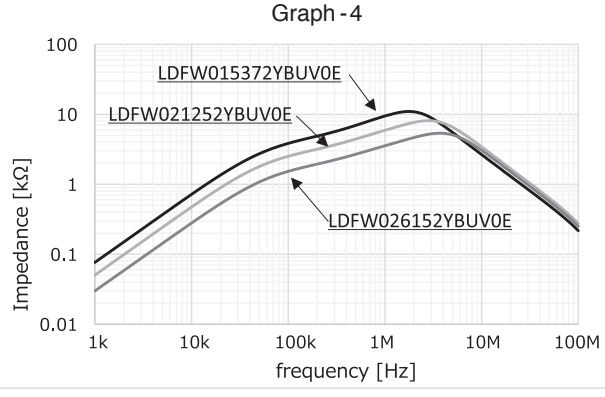
Graph - 2



Graph - 3

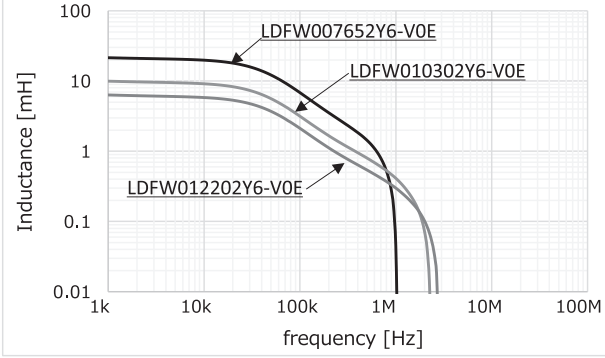


Graph - 4

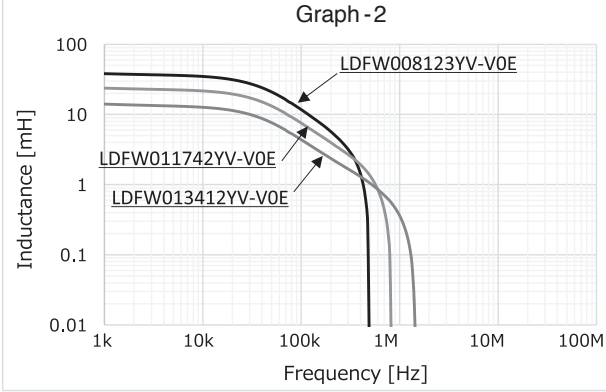


●Inductance

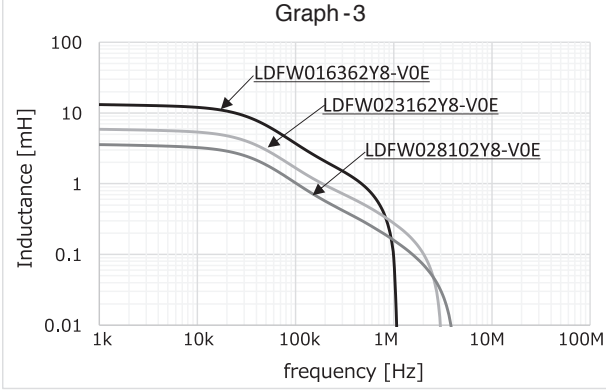
Graph - 1



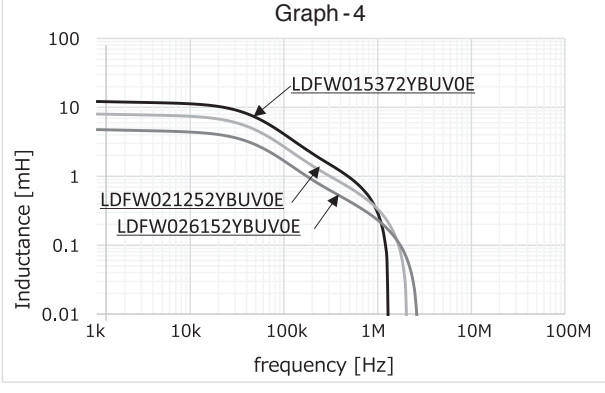
Graph - 2



Graph - 3



Graph - 4

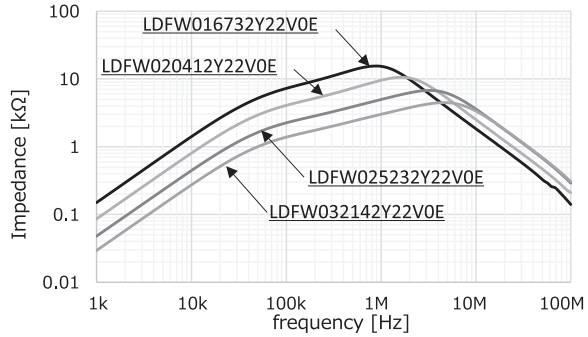


FW Series

◆FREQUENCY CHARACTERISTICS AMBIENT TEMPERATURE:25°C

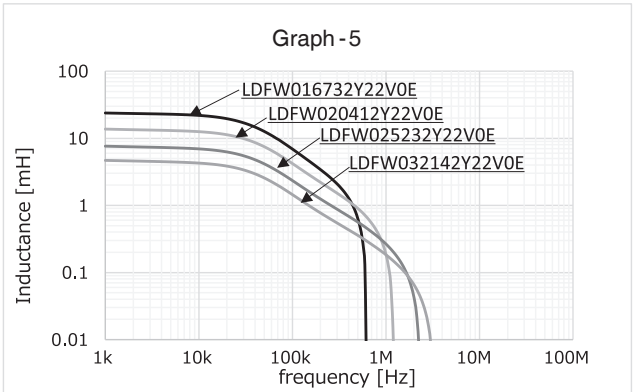
●Impedance

Graph - 5

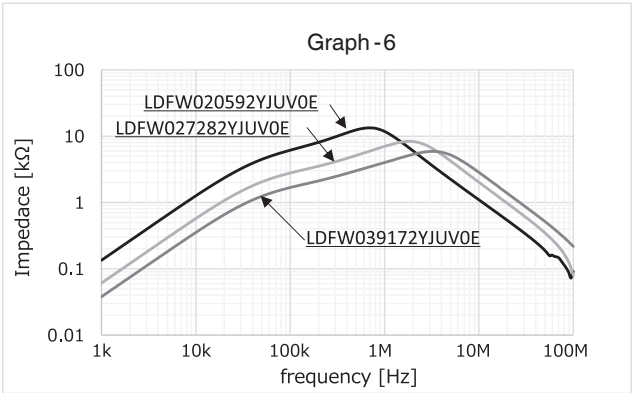


●Inductance

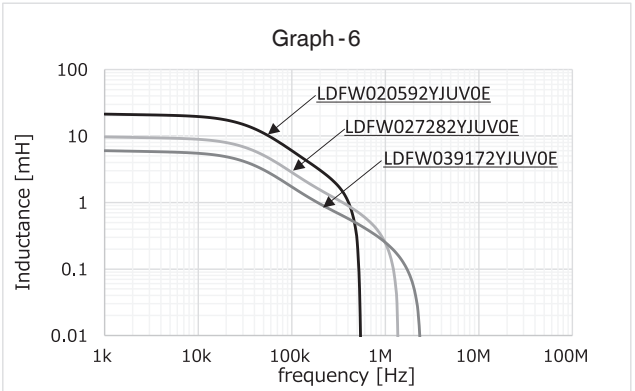
Graph - 5



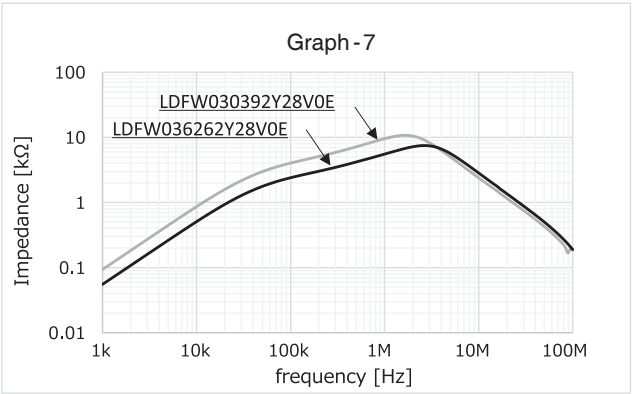
Graph - 6



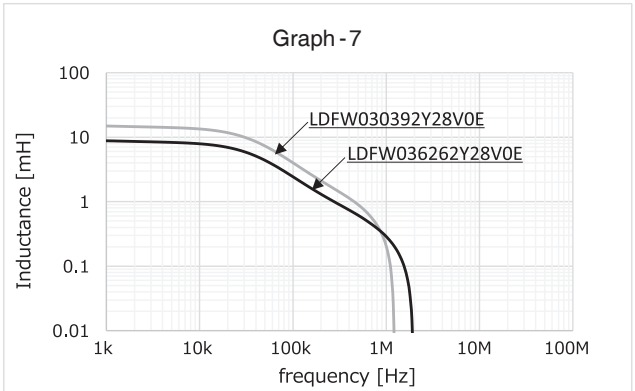
Graph - 6



Graph - 7



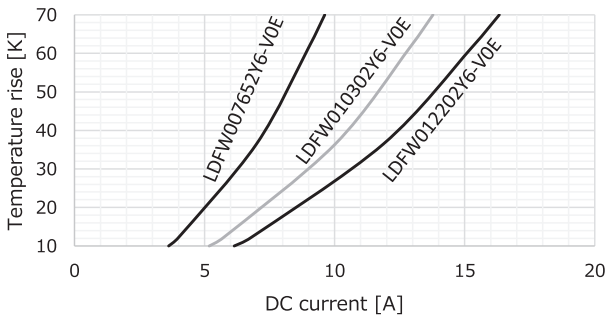
Graph - 7



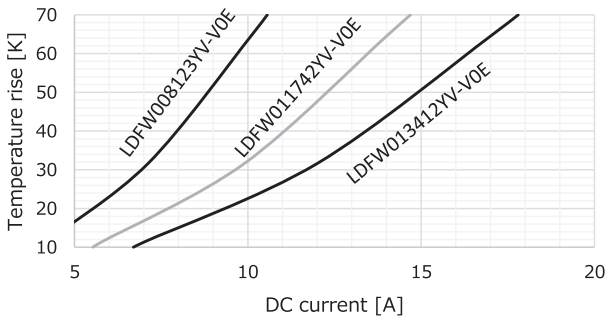
FW Series

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

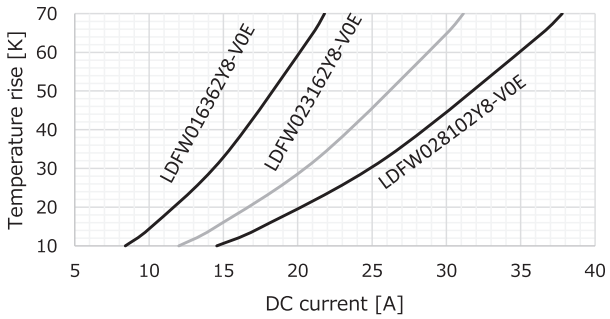
Graph - A



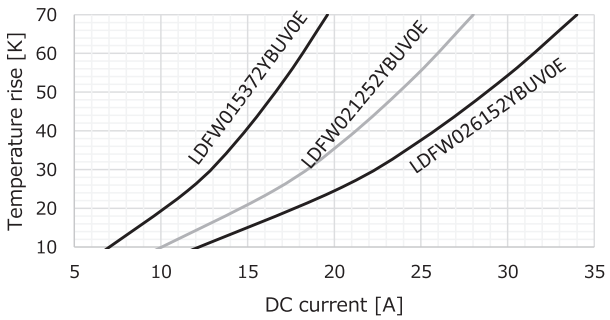
Graph - B



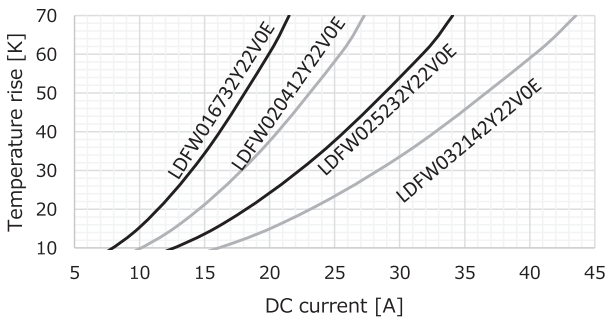
Graph - C



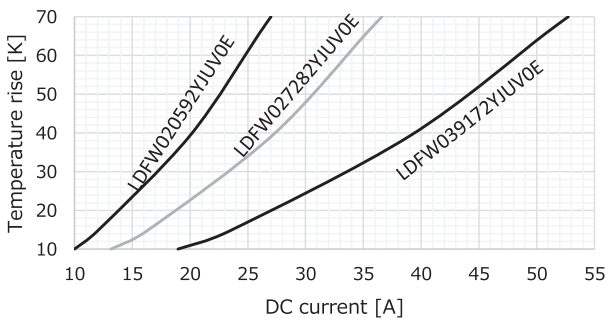
Graph - D



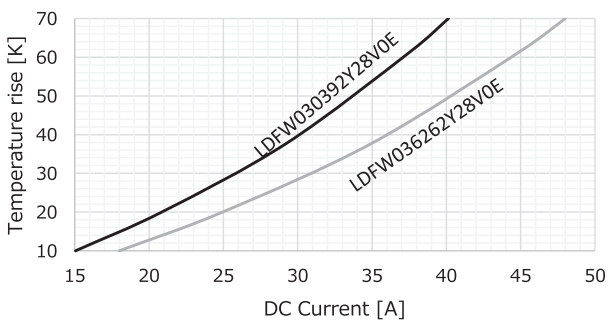
Graph - E



Graph - F



Graph - G



NANOCRYSTALLINE COMMON MODE COILS

FW New! Series

RoHS2 Compliant AEC-Q200

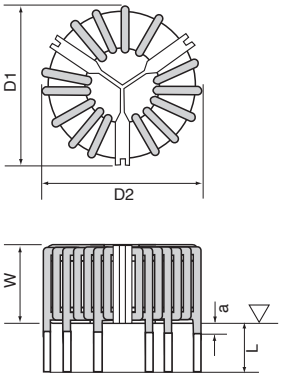
For three-phase circuit

◆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.



Maximum outer diameter : D1(Vertical), D2(Horizontal)
Maximum width : W
Total lead length* : L=15±5mm
Soldering boundary* : a=1.5mmMAX
*The bottom of the core or coil (▽) is defined as base surface.

Coil Part No.	Core Part No.	Rated voltage [V]	Rated Current [A]	Inductance 10kHz [mH]	Inductance 100kHz [mH]	D.C.R. mΩ (max)	Winding mmϕ -lines	Outside Dimensions D1 [mm]	Outside Dimensions D2 [mm]	Outside Dimensions W [mm]	Frequency Characteristics Graph	Temperature rise Graph
LDFW010642Y74H0E	F312115MDX	500	10	20.7	6.4	13.0	1.4-1P	42.0	42.0	27.5	1	A
LDFW015342Y74H0E			15	11.1	3.4	6.6	1.7-1P					
LDFW020142Y74H0E			20	4.5	1.4	3.1	2.0-1P					
LDFW015422YJQH0E	F372315MDX	500	15	13.5	4.2	6.4	1.8-1P	48.5	48.5	29.0	2	B
LDFW020282YJQH0E			20	9.0	2.8	4.5	2.0-1P					
LDFW025172YJQH0E			25	5.5	1.7	2.6	2.3-1P					
LDFW030132YJQH0E			30	4.0	1.3	2.0	2.3-1P					
LDFW020502Y72H0E	F422615MDX	500	20	16.2	5.0	5.6	2.1-1P	56.0	56.0	32.0	3	C
LDFW025282Y72H0E			25	9.1	2.8	3.6	2.3-1P					
LDFW030172Y72H0E			30	5.5	1.7	2.4	1.8-2P					
LDFW035132Y72H0E			35	4.0	1.3	1.7	2.0-2P					
LDFW030332Y73H0E	F503415MUDX	500	30	10.6	3.3	3.0	2.0-2P	65.0	65.0	35.0	4	D
LDFW035222Y73H0E			35	7.1	2.2	2.3	2.1-2P					
LDFW040172Y73H0E			40	5.6	1.7	1.9	2.2-2P					
LDFW050102Y73H0E			50	3.2	1.0	1.2	2.4-2P					

* The inductance at 10kHz indicates the reference value.

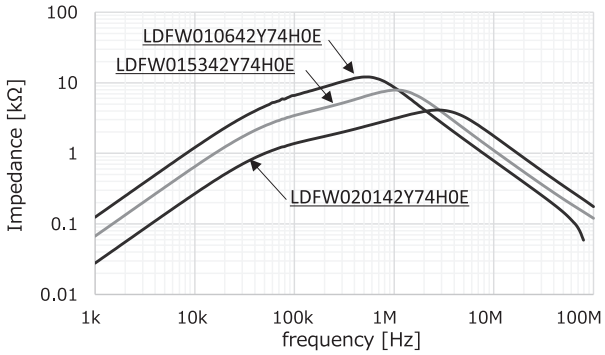
FW Series

For three-phase circuit

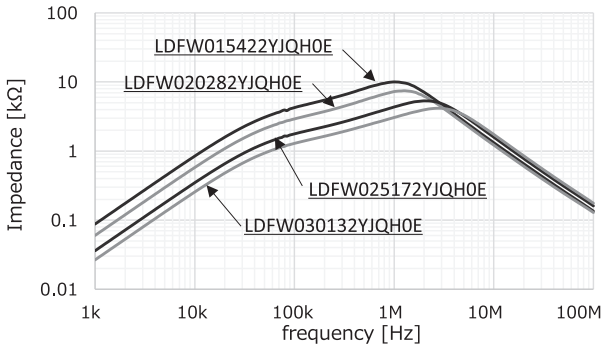
◆FREQUENCY CHARACTERISTICS AMBIENT TEMPERATURE:25°C

●Impedance

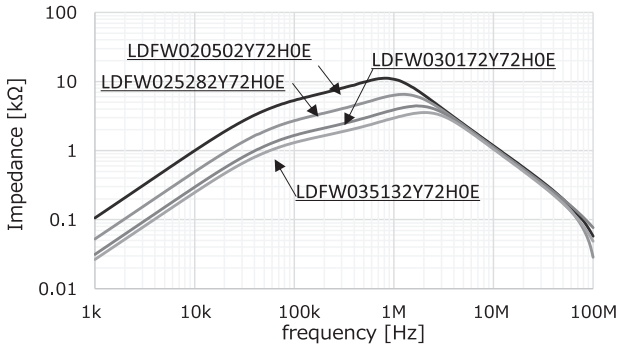
Graph - 1



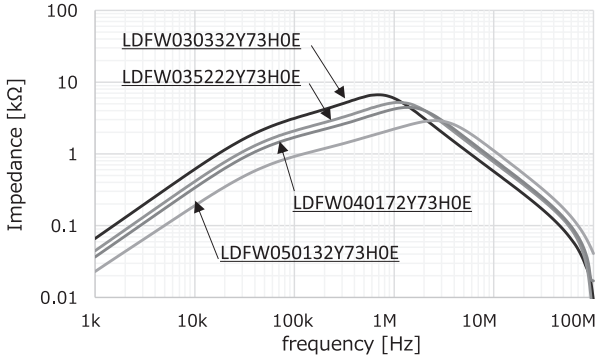
Graph - 2



Graph - 3

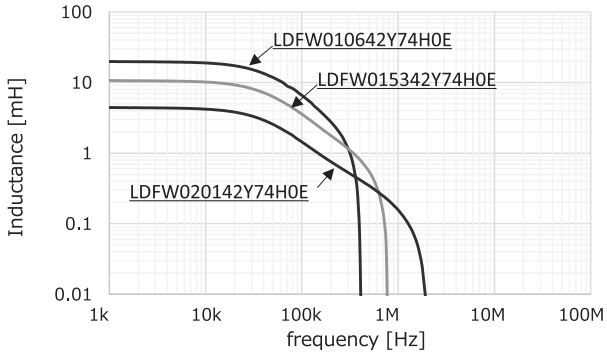


Graph - 4

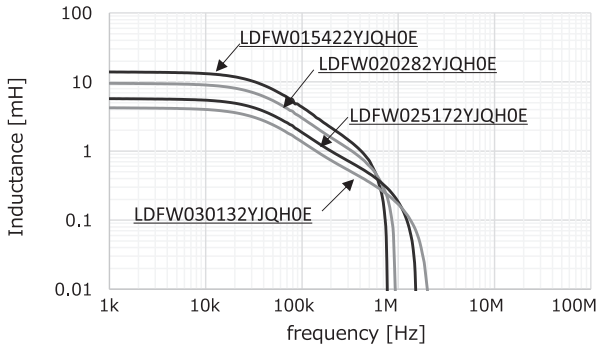


●Inductance

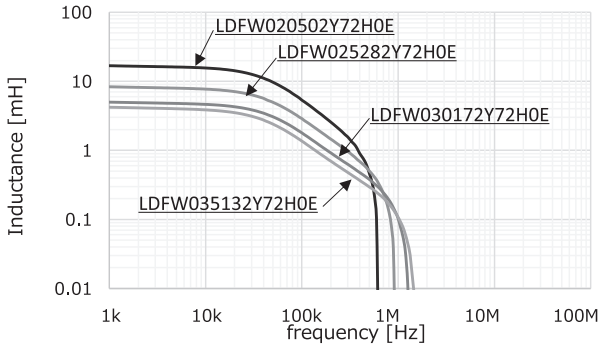
Graph - 1



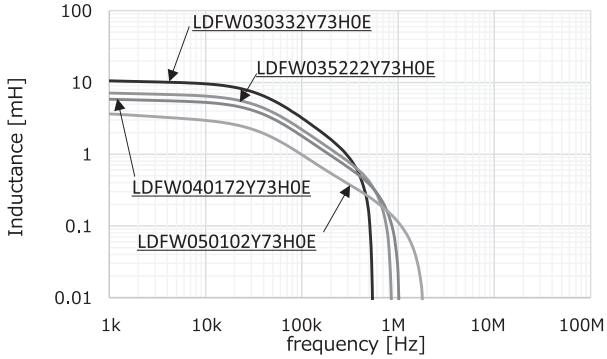
Graph - 2



Graph - 3



Graph - 4



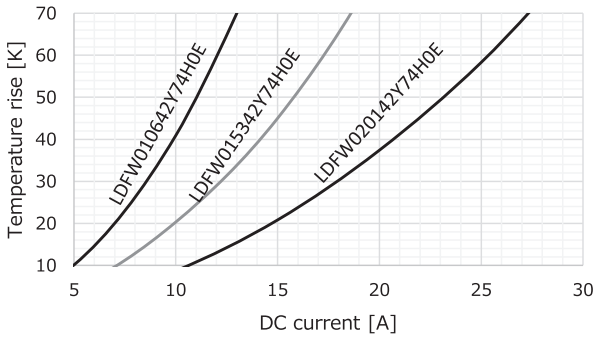
FW Series

For three-phase circuit

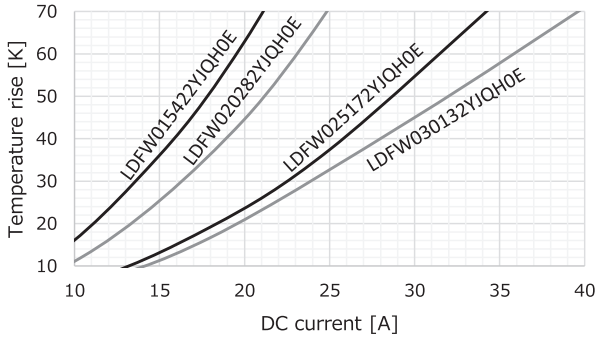
◆RISE TEMPERATURE: AMBIENT TEMPERATURE=25°C SATURATED TEMPERATURE DUE TO DC CURRENT APPLICATION.

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

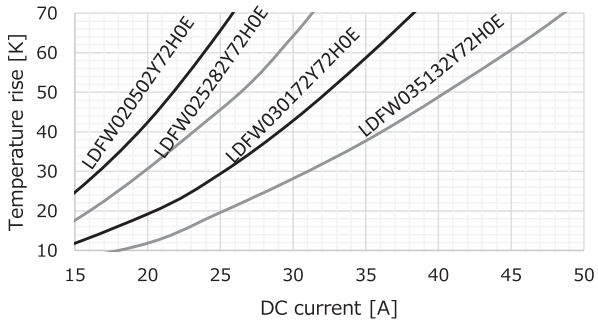
Graph - A



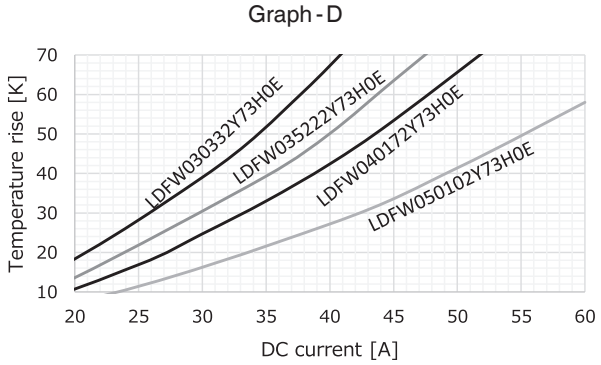
Graph - B



Graph - C



Graph - D



■ Always read "Notes on Use" before using the product in order to enable you to use the product correctly and prevent any faults and accidents from occurring.

■ Request the Product Specification on the product of NIPPON CHEMI-CON CORPORATION to refer to it as well as this brochure prior to the order of the products. Some specific notes on use of the ordered product may be described in the specifications.

■ The products listed in this catalog are designed and manufactured for general electronics equipment use and are not intended for use in applications that can adversely affect human life; where the malfunction of equipment may cause damage to life or property. In addition, our products are not intended to be used in specific applications that may cause a major social impact. Please consult with us in advance of usage of our products in the following listed applications. ① Aerospace equipment ② Power generation equipment such as thermal power, nuclear power etc. ③ Medical equipment ④ Transport equipment (automobiles, trains, ships, etc.) ⑤ Transportation control equipment ⑥ Disaster prevention / crime prevention equipment ⑦ Highly publicized information processing equipment ⑧ Submarine equipment ⑨ Other applications that are not considered general-purpose applications.

■ The circuits described as examples in this catalog and the "delivery specifications" are featured in order to show the operations and usage of our products, however, this fact does not guarantee that the circuits are available to function in your equipment systems. We are not in any case responsible for any failures or damage caused by the use of information contained herein. You should examine our products, of which the characteristics are described in the "delivery specifications" and other documents, and determine whether or not our products suit your requirements according to the specifications of your equipment systems. Therefore, you bear final responsibility regarding the use of our products.
Please make sure that you take appropriate safety measures such as use of redundant design and malfunction prevention measures in order to prevent fatal accidents and/or fires in the event any of our products malfunction.

■ We strongly recommend our customers to purchase Nippon Chemi-Con products only through our official sales channels. We assume no responsibility for any defects or damages caused by using products purchased from outside our official sales channel or of counterfeit goods. In addition, we will ask the customer to pay the investigation cost for products purchased outside our official sales channel.

■ We reserve the right to discontinue production and delivery of products. We do not guarantee that all the products included in this catalog will be available in the future.
The aforementioned does not apply in the case of individual agreements deviating from the foregoing for customer-specific products

■ We continually strive to improve the quality and reliability of our products, but in any case that our product does not meet our published specifications, please stop using it promptly and contact us immediately. As for compensation for non-conforming goods delivered by Chemi-Con, we will limit it only to goods found in non-compliance of our published specifications. This may be accomplished by a no cost replacement of non-conforming individual products, a credit of the piece price paid per each individual non-conforming product, or in other ways deemed necessary.
In addition, we have an established system with enhanced traceability, therefore we will limit the applicable lot items for any potential compensation.

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

CAT. No. E1008Y 2024