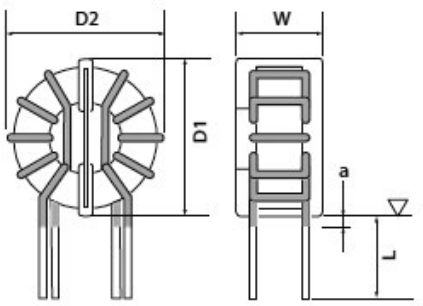
NANOCRYSTALLINE COMMON MODE COILS FOR SINGLE PHASE

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.

◆CORE STANDARD SPECIFICATIONS

Coil Part No.*1	Core No.	Rated voltage [V]	Rated Current [A]	Inductance		D.C.R. [mΩ]	Winding mmφ× lines	Outside Dimensions			Frequency Characteristics Graph	Temperature rise Graph
				10kHz [mH]	100kHz [mH]			D1 [mm]	D2 [mm]	W [mm]		
LDFW007652Y6-□0E	F221310	250	7	21.0	6.5	22	1.0×1P	29.0	31.0	21.0	1,2	A
LDFW010302Y6-□0E			10	9.7	3.0	11	1.2×1P					
LDFW012202Y6-□0E			12	6.5	2.0	7.5	1.3×1P					
LDFW008123YV-□0E	F251513	250	8	37.1	11.5	26	1.1×1P	30.5	34.0	23.5	3,4	B
LDFW011742YV-□0E			11	23.9	7.4	15	1.3×1P					
LDFW013412YV-□0E			13	13.2	4.1	10	1.4×1P					
LDFW016362Y8-□0E	F262115	500	16	11.6	3.6	7.5	1.8×1P	34.0	37.0	27.5	5,6	C
LDFW023162Y8-□0E			23	5.2	1.6	3.7	2.1×1P					
LDFW028102Y8-□0E			28	3.2	1.0	2.5	1.6×2P					
LDFW015372YBU□0E	F281815	700	15	11.9	3.7	6.7	1.7×1P	36.0	39.5	29.5	7,8	D
LDFW021252YBU□0E			21	8.1	2.5	4.5	1.9×1P					
LDFW026152YBU□0E			26	4.8	1.5	2.9	1.5×2P					
LDFW016732Y22□0E	F312115	500	16	23.5	7.3	7.9	1.9×1P	38.0	43.0	28.5	9,10	E
LDFW020412Y22□0E			20	13.2	4.1	4.9	2.1×1P					
LDFW025232Y22□0E			25	7.4	2.3	3.1	1.6×2P					
LDFW032142Y22□0E			32	4.5	1.4	1.9	1.8×2P					
LDFW020592YJU□0E	F372315	700	20	19.0	5.9	5.7	1.5×2P	48.0	50.0	32.5	11,12	F
LDFW027282YJU□0E			27	9.0	2.8	3.1	1.7×2P					
LDFW039172YJU□0E			39	5.5	1.7	1.8	2.0×2P					
LDFW030392Y28□0E	F443420	600	30	12.6	3.9	3.6	2.0×2P	53.0	59.5	39.0	13,14	G
LDFW036262Y28□0E			36	8.4	2.6	2.5	2.2×2P					

*1 About Coils Number, □mark means vertical=V, horizontal=H.

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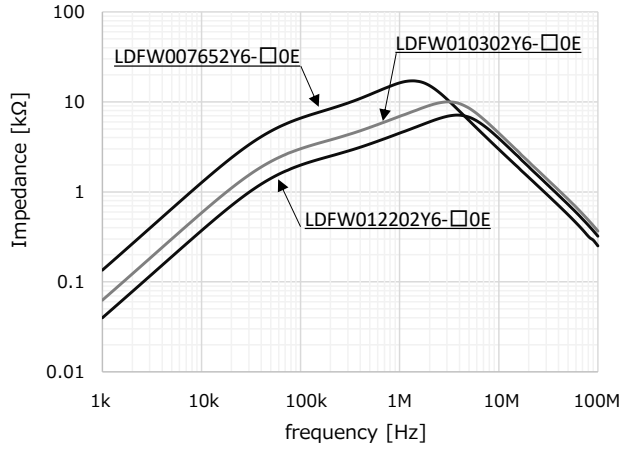
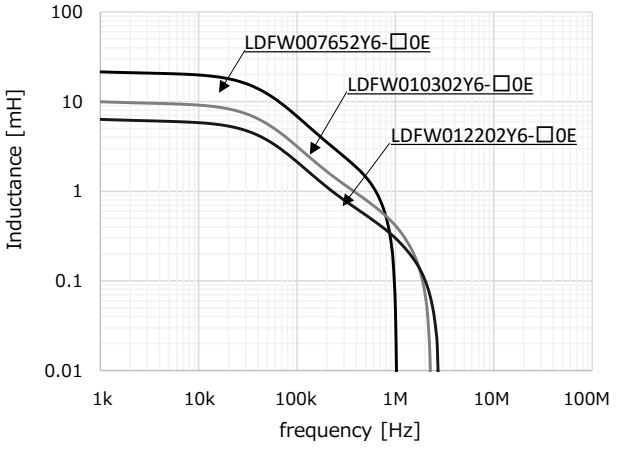
FW Series

Frequency characteristics Ambient temperature:25℃

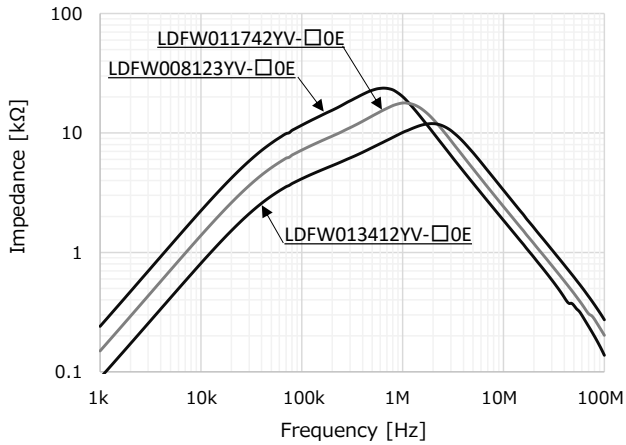
graph-1 (Y6)



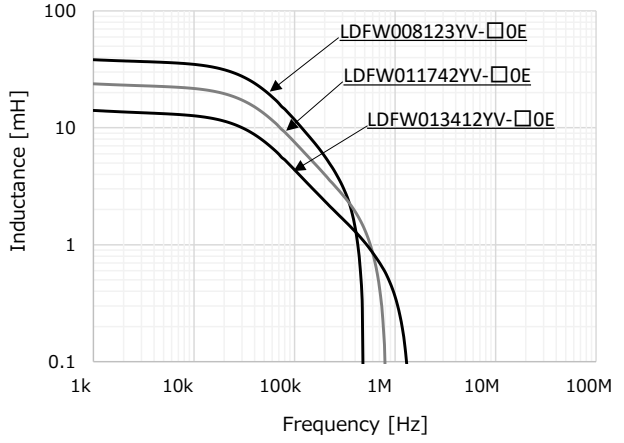
graph-2 (Y6)



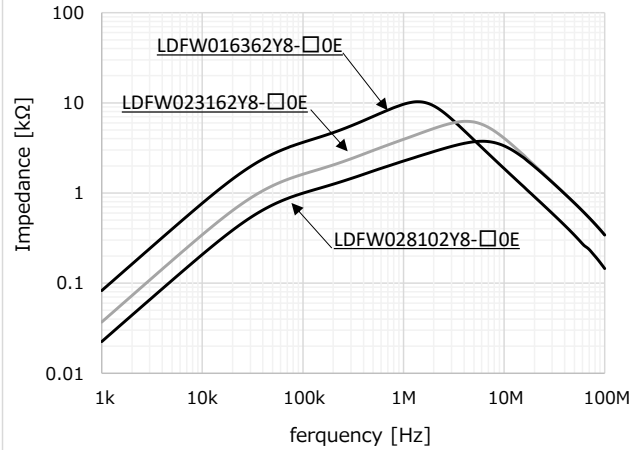
Graph-3 (YV)



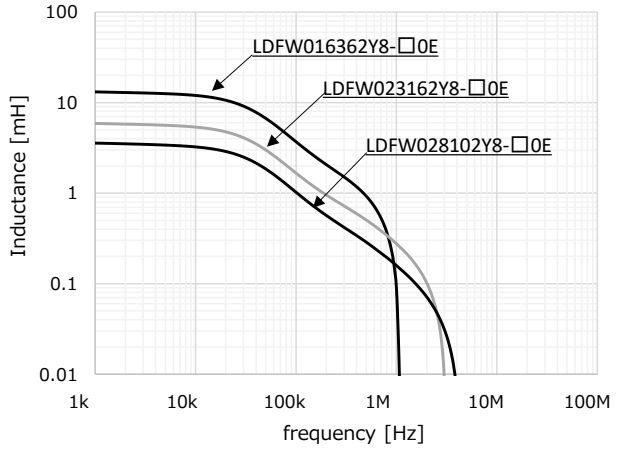
Graph-4 (YV)



graph-5 (Y8)



graph-6 (Y8)



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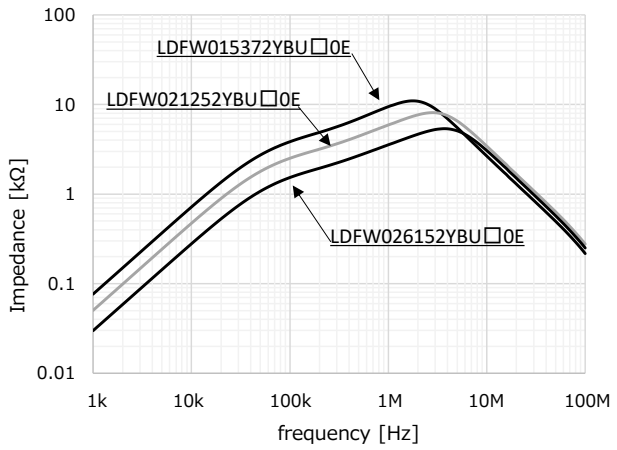
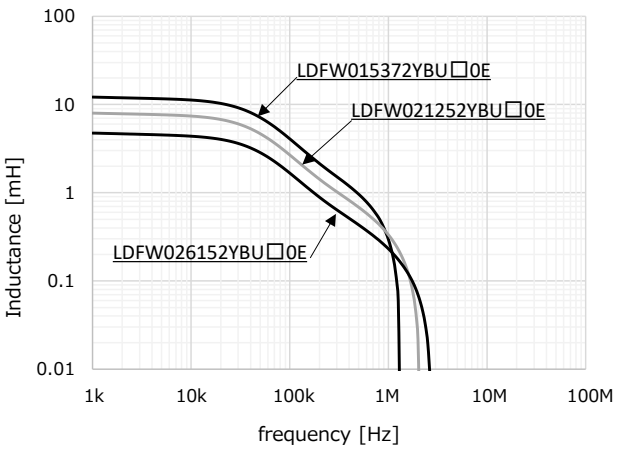
FW Series

Frequency characteristics Ambient temperature:25℃

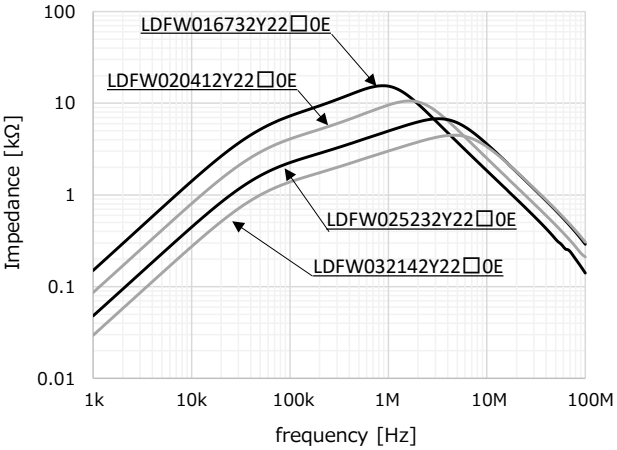
graph-7 (YBU)



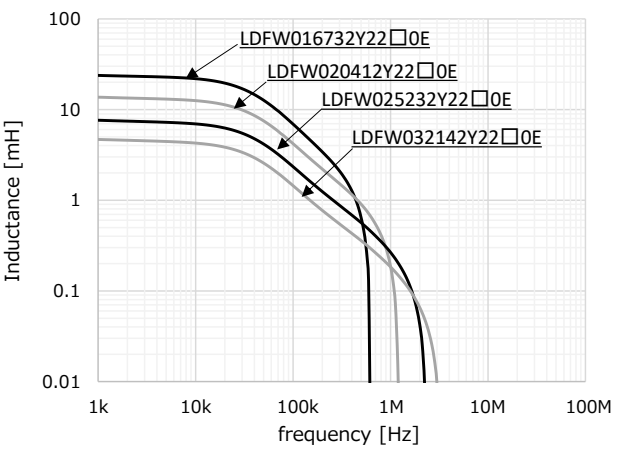
graph-8 (YBU)



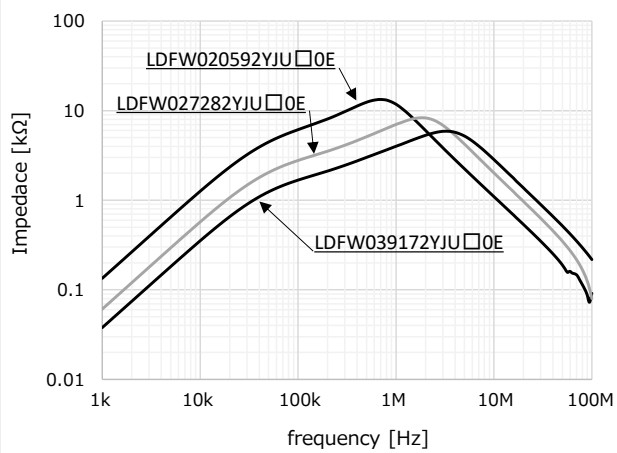
graph-9 (Y22)



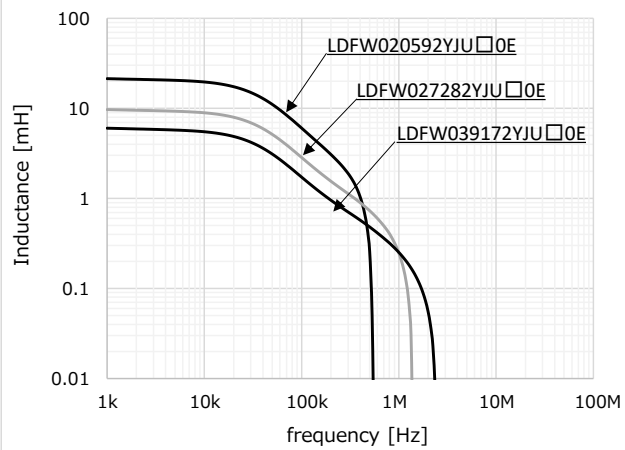
graph-10 (Y22)



graph-11 (YJU)



graph-12 (YJU)



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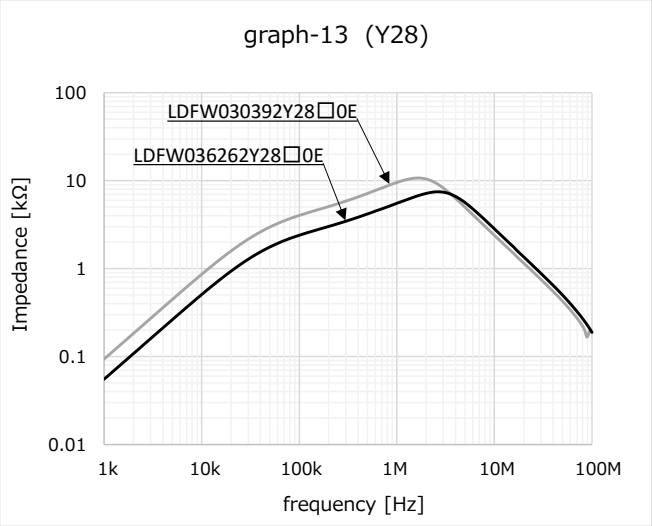
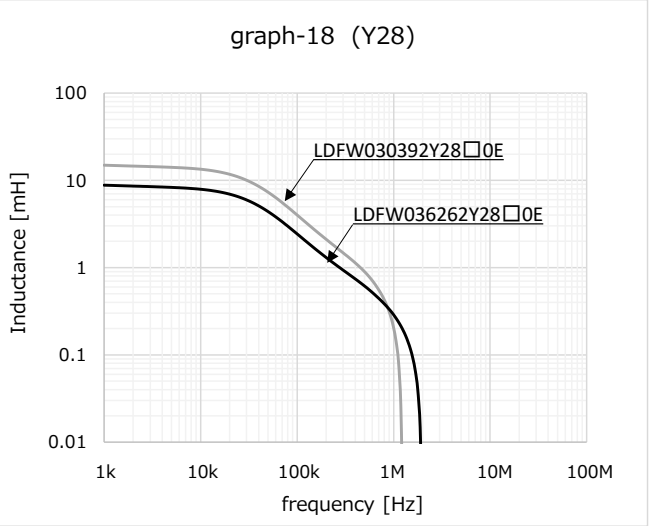
FW Series

Frequency characteristics Ambient temperature:25





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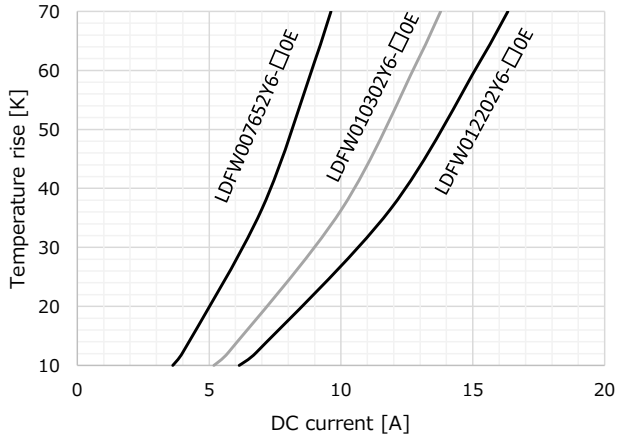
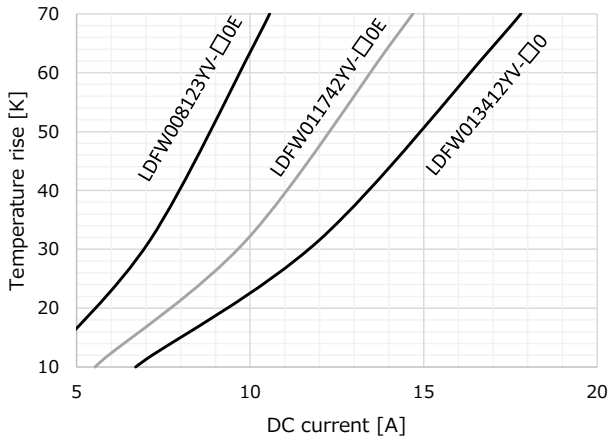
FW Series

Rise temperature: Ambient temperature=25℃ Saturated temperature due to DC current application.
※This data don't consider set situation,influence of around parts.

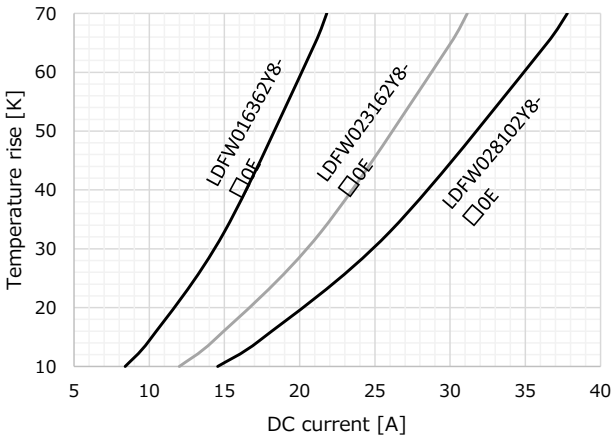
graph-A (Y6)



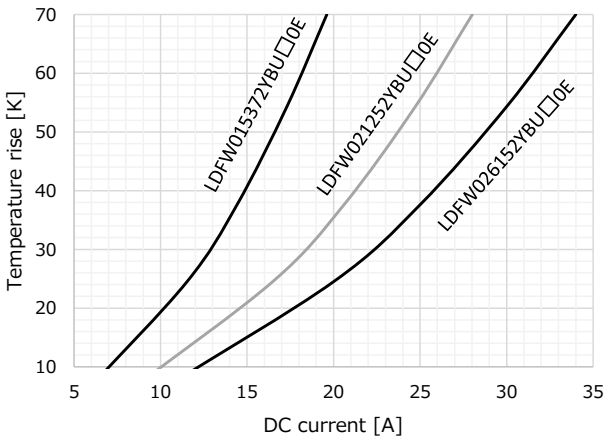
Graph-B (YV)



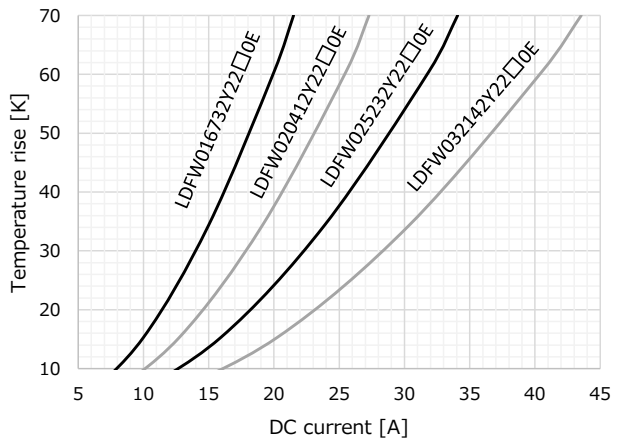
graph-C (Y8)



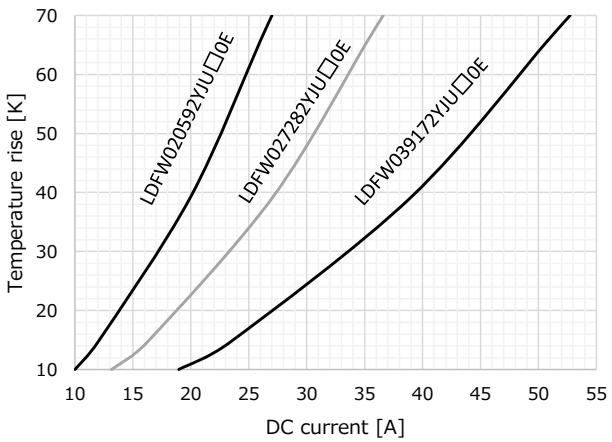
graph-D (YBU)



graph-E (Y22)



graph-F (YJU)



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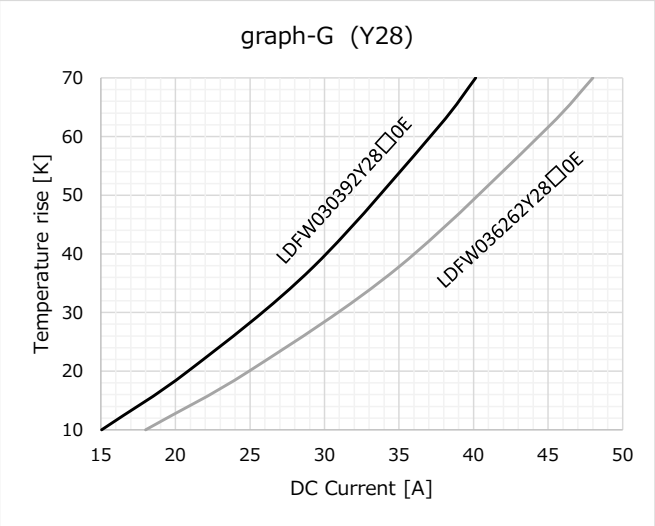
FW Series

Rise temperature: Ambient temperature=25 Saturated temperature due to DC current application.
This data don't consider set situation,influence of around parts.



Notes

- The lead wire have made of copper, Please be careful not to repeat the strong force and bending.
- Please do not hit the coil against a hard sharp object. Scratch on the coating, possibly impairing performance.
- Heat-resistant temperature 130 means the surface temperature including coil self-heating.
- 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.

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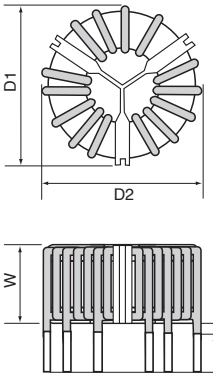
NANOCRYSTALLINE COMMON MODE COILS

FW New! Series

RoHS2 Compliant AEC-Q200

For three-phase circuit



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.

◆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.
●Conforming to insulating type:B and incombustibility UL94V-0.
●Deal with it by rated voltage 500V.

◆CORE STANDARD SPECIFICATIONS

Coil Part No.	Core No.	Rated voltage [V]	Rated Current [A]	Inductance		D.C.R. [mΩ]	Winding mmϕ× lines	Outside Dimensions			Frequency Graph
				10kHz [mH]	100kHz [mH]			D1 [mm]	D2 [mm]	W [mm]	
LDFW010642Y74H0E	F312115	500	10	20.7	6.4	13.0	1.4×1P	42.0	42.0	27.5	1,2
LDFW015342Y74H0E	F312115	500	15	11.1	3.4	6.6	1.7×1P	42.0	42.0	27.5	
LDFW020142Y74H0E	F312115	500	20	4.5	1.4	3.1	2.0×1P	42.0	42.0	27.5	
LDFW015422YJQH0E	F372315	500	15	13.5	4.2	6.4	1.8×1P	48.5	48.5	27.5	3,4
LDFW020282YJQH0E	F372315	500	20	9.0	2.8	4.5	2.0×1P	48.5	48.5	27.5	
LDFW025172YJQH0E	F372315	500	25	5.5	1.7	2.6	2.3×1P	48.5	48.5	27.5	
LDFW030132YJQH0E	F372315	500	30	4.0	1.3	2.0	2.3×1P	48.5	48.5	27.5	
LDFW020422Y72H0E	F422615	500	20	16.2	5.0	5.6	2.1×1P	56.0	56.0	32.0	5,6
LDFW025282Y72H0E	F422615	500	25	9.1	2.8	3.6	2.3×1P	56.0	56.0	32.0	
LDFW030172Y72H0E	F422615	500	30	5.5	1.7	2.4	1.8×2P	56.0	56.0	32.0	
LDFW035132Y72H0E	F422615	500	35	4.0	1.3	1.7	2.0×2P	56.0	56.0	32.0	
LDFW030332Y73H0E	F503415	500	30	10.6	3.3	4.0	2.0×2P	65.0	65.0	35.0	7,8
LDFW035222Y73H0E	F503415	500	35	7.1	2.2	2.3	2.1×2P	65.0	65.0	35.0	
LDFW040172Y73H0E	F503415	500	40	5.6	1.7	1.9	2.2×2P	65.0	65.0	35.0	
LDFW050102Y73H0E	F503415	500	50	3.2	1.0	1.2	2.4×2P	65.0	65.0	35.0	

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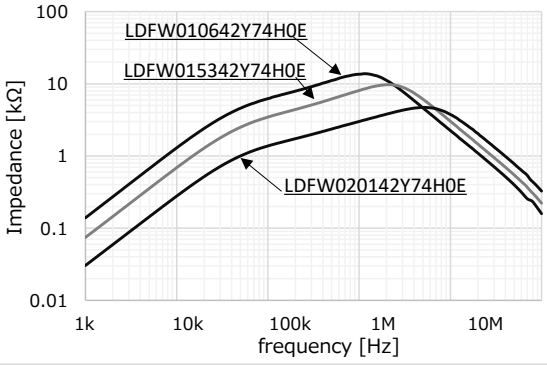
FW Series

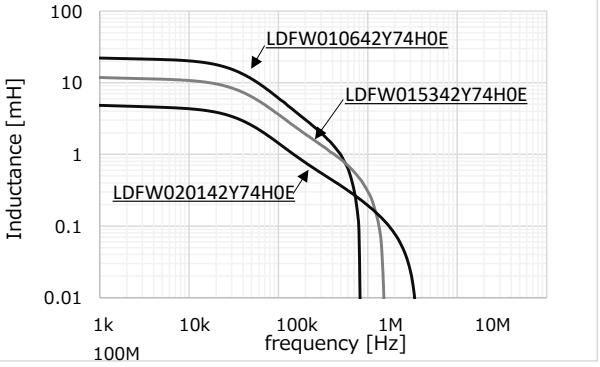
For three-phase circuit

Frequency characteristics Ambient temperature:25℃

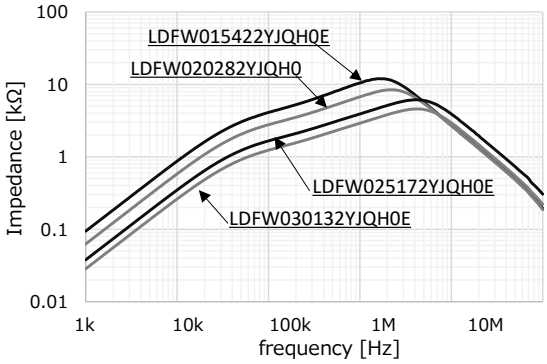
graph-1 (Y74)



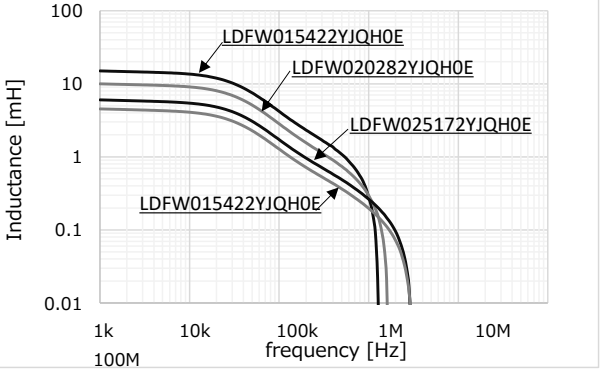
graph-2 (Y74)



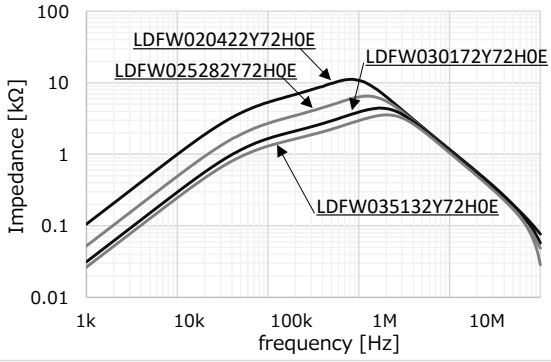
graph-3 (YJQ)



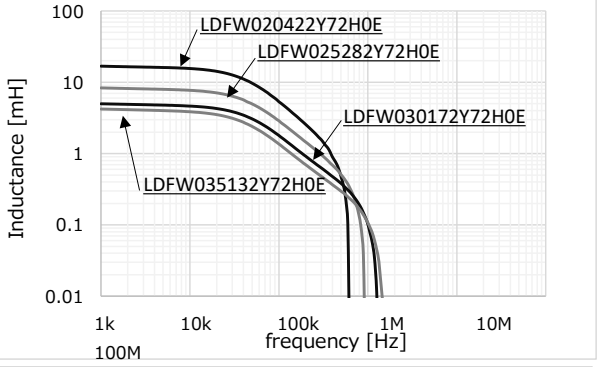
graph-4 (YJQ)



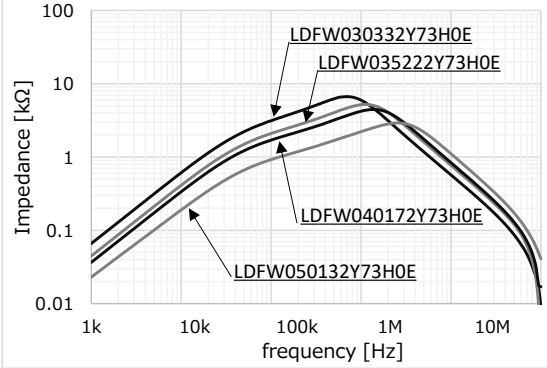
graph-5 (Y72)



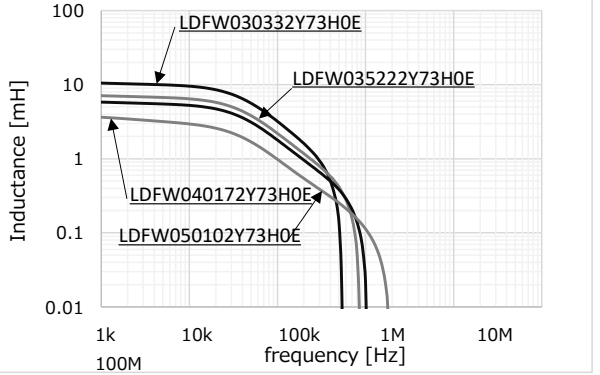
graph-6 (Y72)



graph-7 (Y73)



graph-8 (Y73)



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