

FL Series

◆ **MAJOR USES**

- Signal power line noise control
- DC power line noise control
- AC power line noise control
- Filter line
- Zero-phase reactor



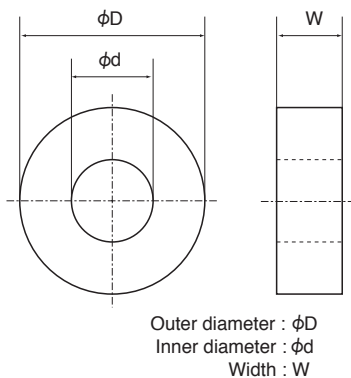
◆ **FEATURES**

- The high permeability core is made of nanocrystalline soft magnetic alloy
- High impedance in spite of a small number of turns
- Excellent temperature characteristics
- Conforming to insulating type B and incombustibility UL94V-0

◆ **CORE STANDARD SPECIFICATIONS**

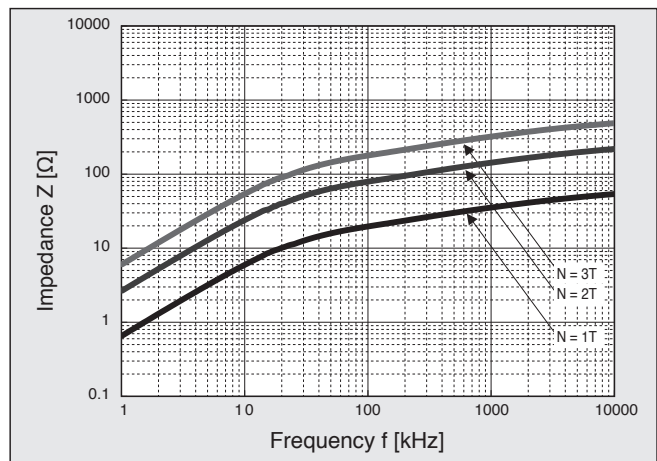
Core Part No. (Old Core Part No.)	Cross Sectional Area cm ²	Magnetic Path Length cm	Weight g	Outside Dimensions			Inductance Coefficient (AL Value) [μH/100kHz at 0A]
				φD mm	φd mm	W mm	
LRF251515MKX (F251515MKX)	0.63	6.40	35	28.3	12.7	17.5	18.3
LRF322015MKX (F322015MKX)	0.73	8.17	50	35.2	17.5	17.3	16.6
LRF372315MKX (F372315MKX)	0.85	9.42	67	40.5	19.5	18.0	17.2
LRF462715MKX (F462715MKX)	1.15	11.50	110	49.4	22.7	18.0	18.6
LRF462725MKX (F462725MKX)	1.92	11.50	176	49.4	22.7	28.0	31.0
LRF603525MKX (F603525MKX)	2.53	14.90	310	66.7	29.3	29.2	31.6
LRF624520MKX (F624520MKX)	1.36	16.80	200	66.0	41.0	24.0	15.2
LRF1108020MKX (F1108020MKX)	2.20	30.00	550	115.5	74.5	25.0	15.0

◆ **DIMENSIONS OF CORE**



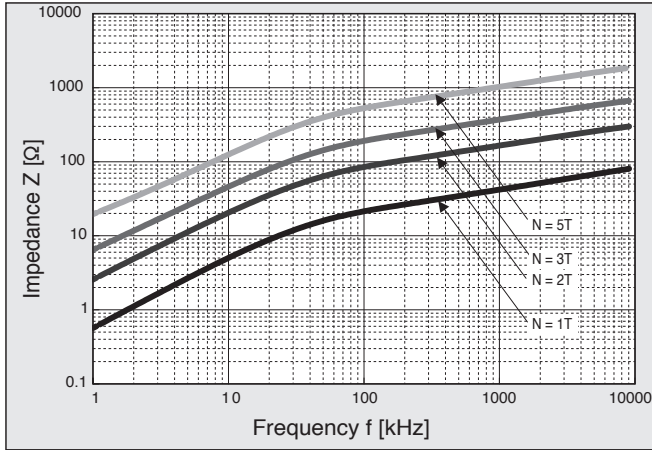
◆ **FREQUENCY - IMPEDANCE CHARACTERISTICS**

● LRF1108020MKX



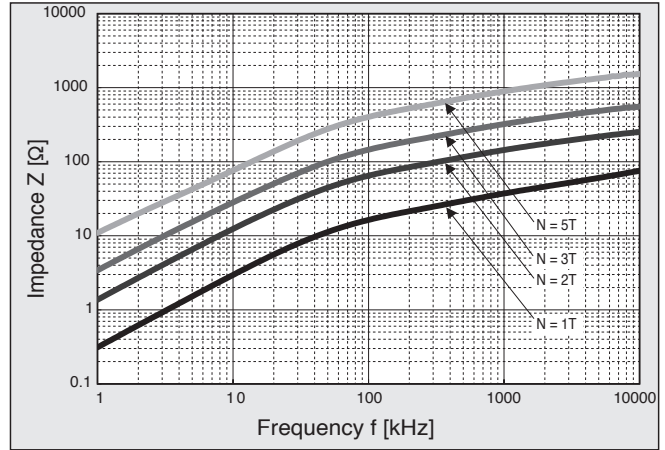
◆FREQUENCY - IMPEDANCE CHARACTERISTICS (1)

●LRF251515MKX



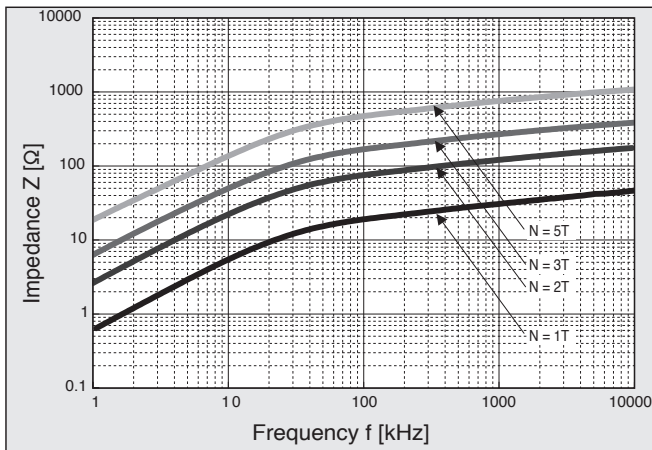
◆FREQUENCY - IMPEDANCE CHARACTERISTICS (2)

●LRF322015MKX



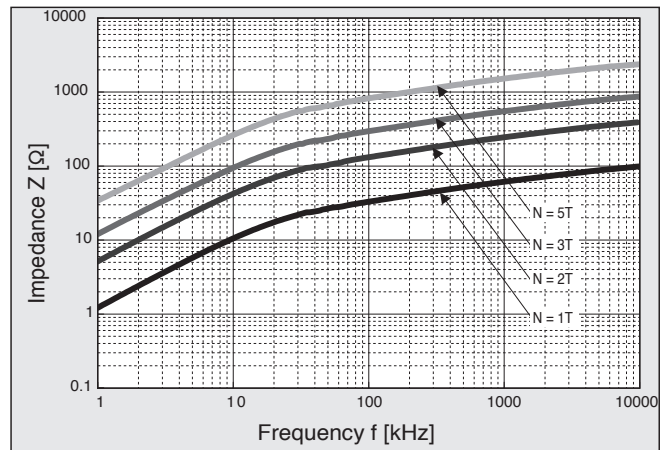
◆FREQUENCY - IMPEDANCE CHARACTERISTICS (3)

●LRF372315MKX



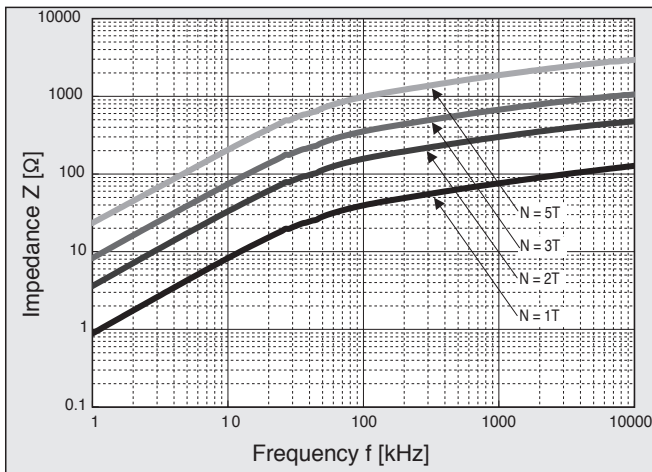
◆FREQUENCY - IMPEDANCE CHARACTERISTICS (4)

●LRF462725MKX



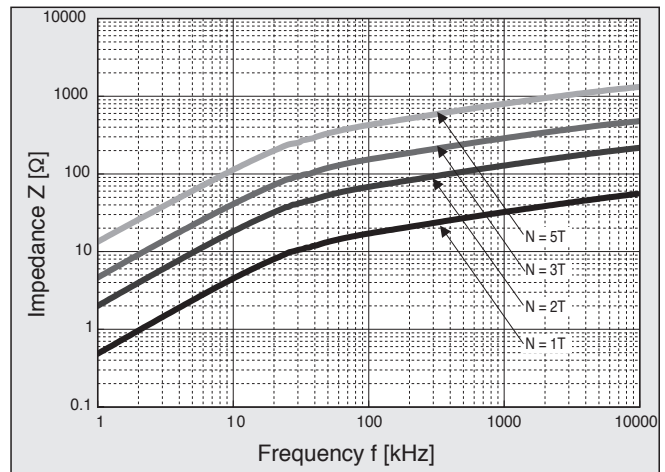
◆FREQUENCY - IMPEDANCE CHARACTERISTICS (5)

●LRF603525MKX



◆FREQUENCY - IMPEDANCE CHARACTERISTICS (6)

●LRF624520MKX



FL Series

Standard type for single phase

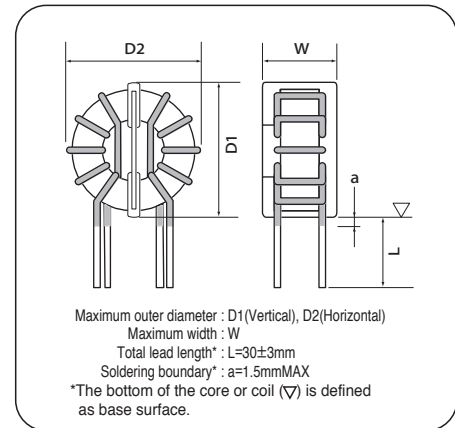
◆ MAJOR USES

- Common mode coils for noise filter in inverter or large capacity power supply

◆ FEATURES

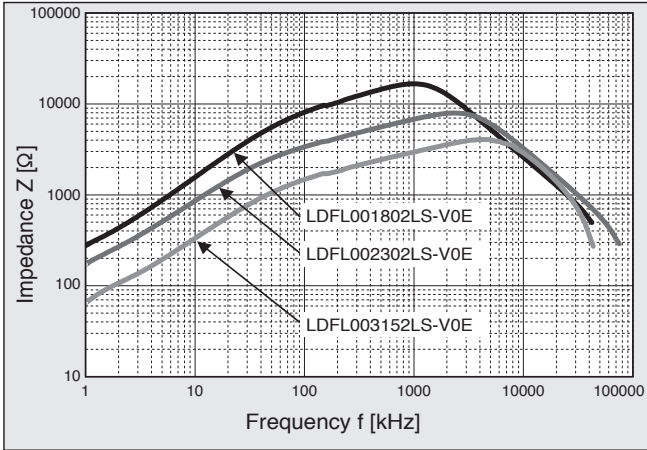
- Small profile, light through adoption of high permeability core
- High inductance in spite of a small number of turns
- Low temperature rise and low D.C. resistance
- Stable frequency performance of noise suppression in wide frequency range
- Excellent temperature characteristics

◆ COIL STANDARD SPECIFICATIONS

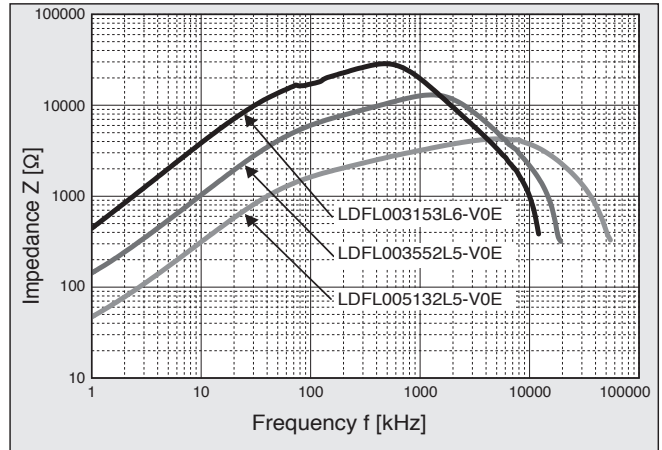


Coil Part No. (Old Coil Part No.)	Rated Current A	Inductance		D.C.R. mΩ (max)	Winding mm φ × lines	Outside Dimensions		
		10kHz (Typical) mH	100kHz (Rating) mH			D1 mm	D2 mm	W mm
LDFL001802LS-V0E (FL01393LSPBF)	1	28.0	8.0	200	0.35 × 1P	15.0	16.0	11.9
LDFL002302LS-V0E (FL02173LSPBF)	2	11.6	3.0	85	0.45 × 1P	15.0	16.0	11.9
LDFL003152LS-V0E (FM03872LSPBF)	3	5.6	1.5	45	0.55 × 1P	15.0	16.0	11.9
LDFL003552L5-V0E (FL03552L5PBF)	3	22.0	5.5	56	0.7 × 1P	28.0	29.0	15.0
LDFL003153L6-V0E (FL03153L6PBF)	3	60.0	15.0	82	0.7 × 1P	29.0	30.5	20.5
LDFL005132L5-V0E (FL05132L5PBF)	5	5.4	1.3	16	1.0 × 1P	29.0	30.0	15.0
LDFL005332L6-V0E (FL05332L6PBF)	5	13.0	3.3	21	1.0 × 1P	29.0	30.5	20.0
LDFL005302LT-V0E (FL05302LTPBF)	5	13.0	3.0	17	1.1 × 1P	34.0	36.0	20.0
LDFL005502LT-V0E (FL05502LTPBF)	5	23.0	5.0	23	1.1 × 1P	34.5	36.5	20.5
LDFL005103LR-V0E (FL05103LRPBF)	5	39.0	10.0	33	1.1 × 1P	39.0	41.0	25.5
LDFL008451L5-V0E (FL08451L5PBF)	8	1.8	0.45	6.5	1.3 × 1P	29.5	31.0	15.0
LDFL008102L6-V0E (FL08102L6PBF)	8	4.2	1.0	9	1.3 × 1P	29.5	31.5	20.5
LDFL010102LT-V0E (FL10102LTPBF)	10	5.8	1.0	8	1.5 × 1P	34.0	38.0	22.0
LDFL010302LT-V0E (FL10302LTPBF)	10	13.0	3.0	11	1.4 × 1P	36.0	38.0	22.0
LDFL010502LR-V0E (FL10502LRPBF)	10	24.0	5.0	15	1.5 × 1P	40.0	43.0	27.0
LDFL010103LJ-V0E (FL10103LJPBF)	10	46.5	10.0	20	1.5 × 1P	46.5	47.5	27.5
LDFL015102LT-V0E (FL05102LTPBF)	15	3.7	1.0	6	1.6 × 1P	34.5	38.0	20.5
LDFL015302LR-V0E (FL15302LRPBF)	15	15.0	3.0	10	1.8 × 1P	40.0	42.5	29.0
LDFL015502LJ-V0E (FL15502LJPBF)	15	24.8	5.0	11	1.8 × 1P	47.0	49.0	28.0
LDFL020102LR-V0E (FL20102LRPBF)	20	4.2	1.0	5	1.5 × 2P	42.5	43.0	28.0
LDFL020302LJ-V0E (FL20302LJPBF)	20	13.5	3.0	7	1.5 × 2P	46.5	48.0	30.0
LDFL025252LJ-V0E (FL25252LJPBF)	25	11.6	2.5	5	1.6 × 2P	47.0	49.0	31.0
LDFL30102LR-V0E (FL30102LRPBF)	30	4.2	1.0	5	1.7 × 2P	39.5	44.0	29.5
LDFL30202LJ-V0E (FL30202LJPBF)	30	9.9	2.0	6	1.7 × 2P	47.0	48.5	31.0

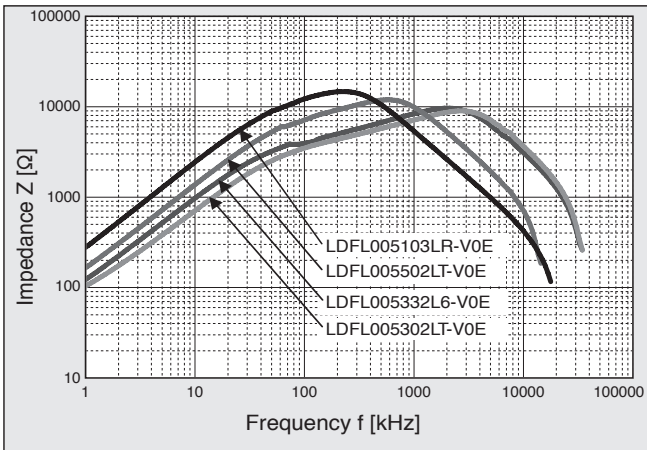
◆FREQUENCY - IMPEDANCE CHARACTERISTICS (1)
●Rated Current: 1, 2, 3 [A]



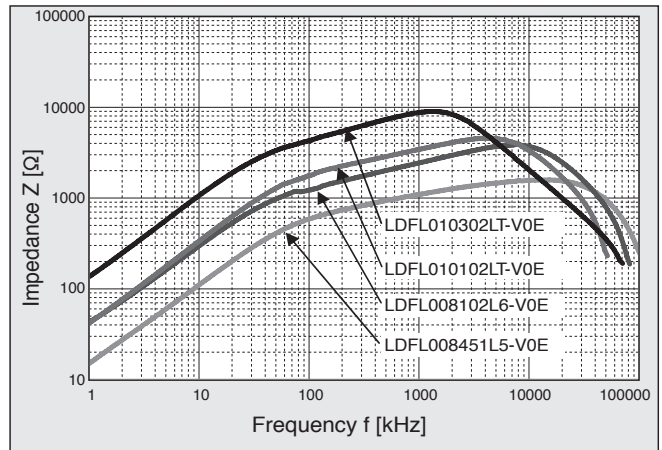
◆FREQUENCY - IMPEDANCE CHARACTERISTICS (2)
●Rated Current: 3, 5 [A]



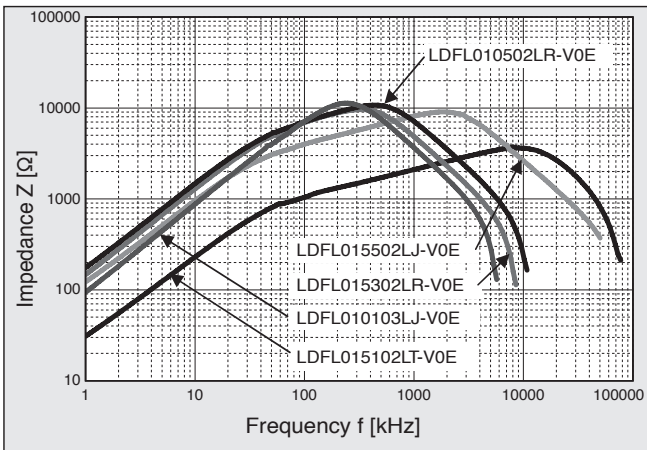
◆FREQUENCY - IMPEDANCE CHARACTERISTICS (3)
●Rated Current: 5 [A]



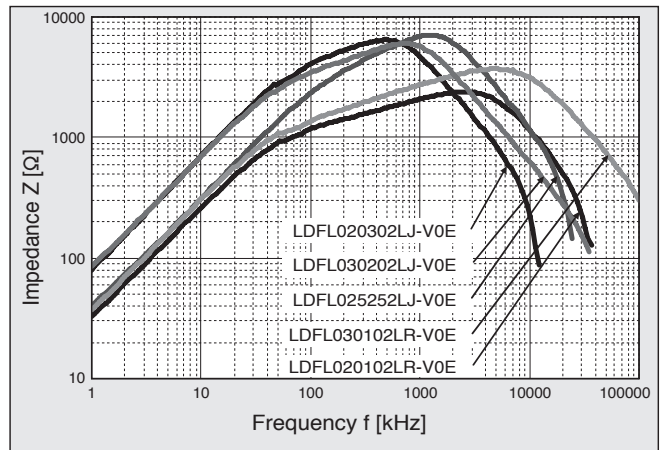
◆FREQUENCY - IMPEDANCE CHARACTERISTICS (4)
●Rated Current: 8, 10 [A]



◆FREQUENCY - IMPEDANCE CHARACTERISTICS (5)
●Rated Current: 10, 15 [A]

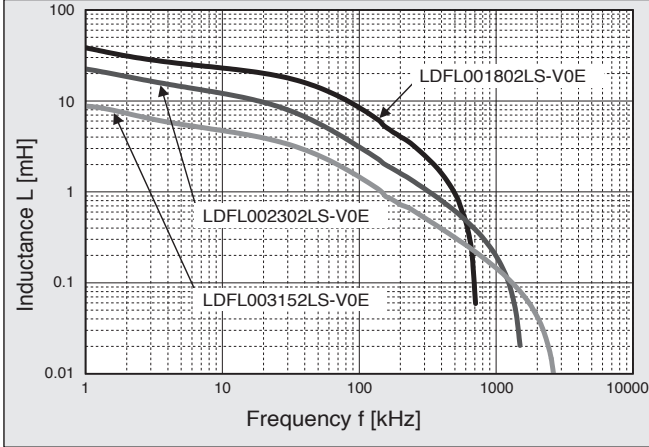


◆FREQUENCY - IMPEDANCE CHARACTERISTICS (6)
●Rated Current: 20, 25, 30 [A]



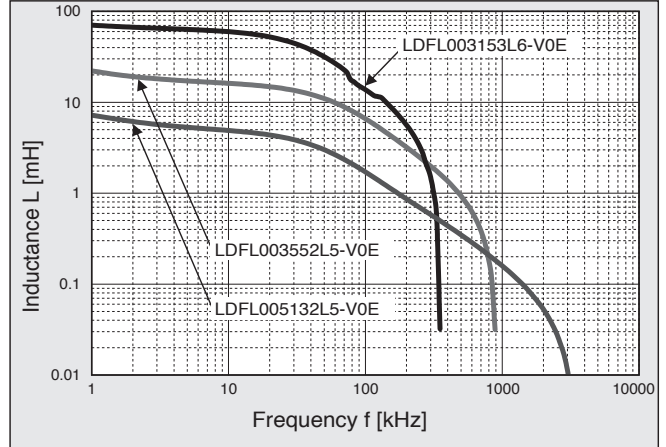
◆FREQUENCY - INDUCTANCE CHARACTERISTICS (1)

●Rated Current: 1, 2, 3 [A]



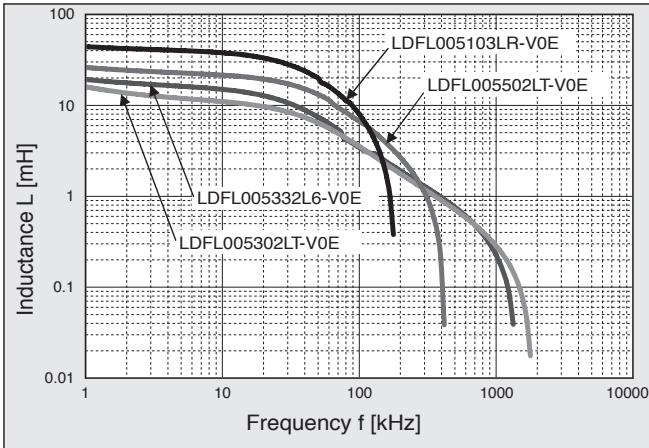
◆FREQUENCY - INDUCTANCE CHARACTERISTICS (2)

●Rated Current: 3, 5 [A]



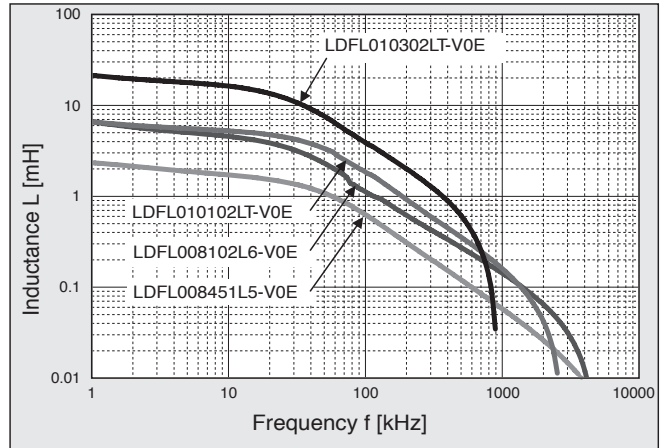
◆FREQUENCY - INDUCTANCE CHARACTERISTICS (3)

●Rated Current: 5 [A]



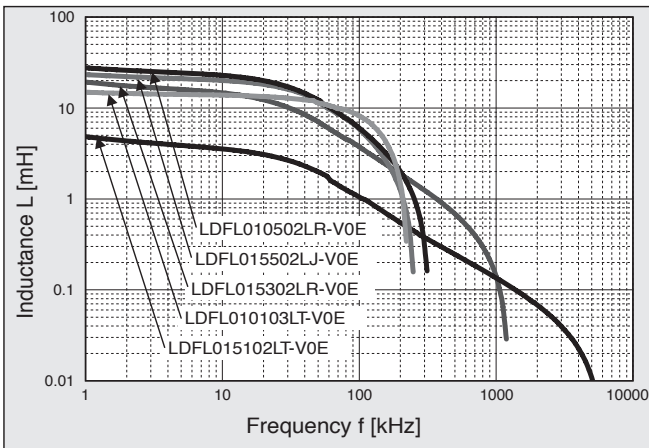
◆FREQUENCY - INDUCTANCE CHARACTERISTICS (4)

●Rated Current: 8, 10 [A]



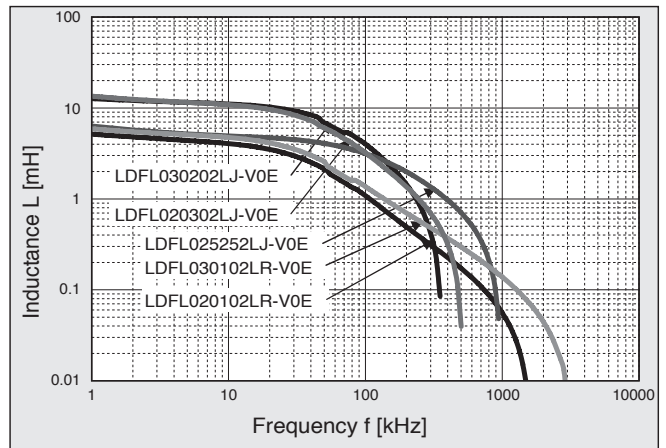
◆FREQUENCY - INDUCTANCE CHARACTERISTICS (5)

●Rated Current: 10, 15 [A]



◆FREQUENCY - INDUCTANCE CHARACTERISTICS (6)

●Rated Current: 20, 25, 30 [A]



FL Series

High voltage type for single phase

◆ MAJOR USES

- Common mode coils for noise filter in inverter or large capacity power supply

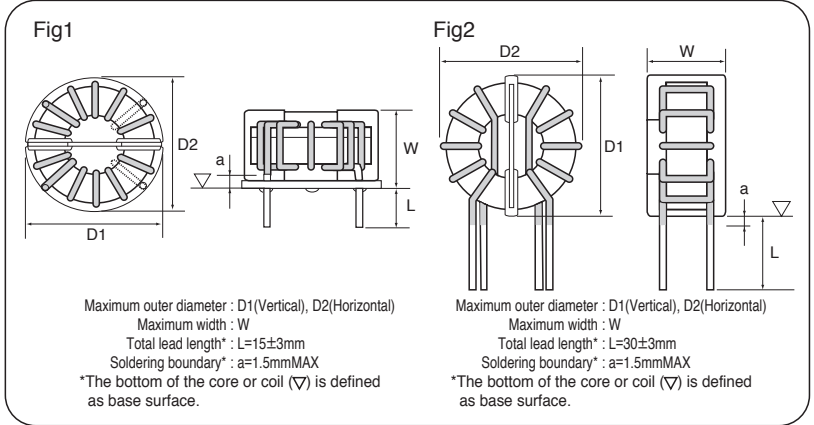
◆ FEATURES

- Applicable to input voltage (700V)
- Remarkably miniaturized in profile benefited by high permeability core
- High inductance in spite of a small number of turns
- Low temperature rise and low D.C. resistance
- Stable frequency performance of noise suppression in wide frequency range
- Excellent temperature characteristics

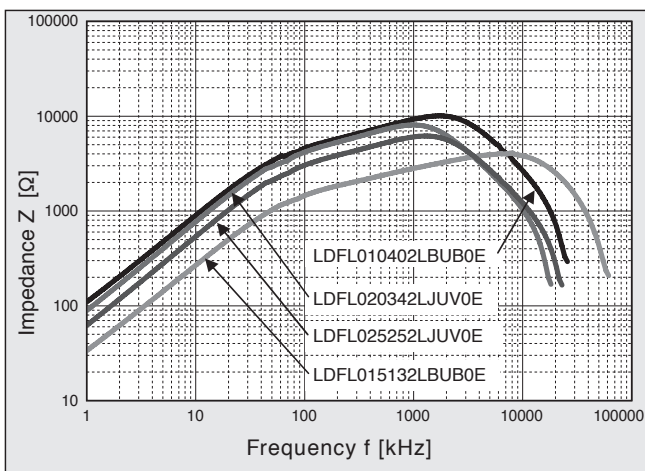
◆ COIL STANDARD SPECIFICATIONS

Coil Part No. (Old Coil Part No.)	Rated Current A	Inductance		D.C.R. mΩ (max)	Winding mm φ × lines	Outside Dimensions			
		10kHz (Typical)	100kHz (Rating)			D1 mm	D2 mm	W mm	Dimensions
		mH	mH						
LDFL010402LBUB0E (FL10402LBUBPBF)	10	16.0	4.0	12	1.5 × 1P	42.0	42.0	32.0	Fig1
LDFL015132LBUB0E (FL15132LBUBPBF)	15	5.1	1.3	6	1.9 × 1P	42.0	42.0	32.5	Fig1
LDFL020342LJUV0E (FL20342LJUPBF)	20	13.5	3.4	8	1.4 × 2P	49.0	49.0	31.0	Fig2
LDFL025252LJUV0E (FL25252LJUPBF)	25	9.9	2.5	6	1.6 × 2P	50.0	50.0	32.0	Fig2

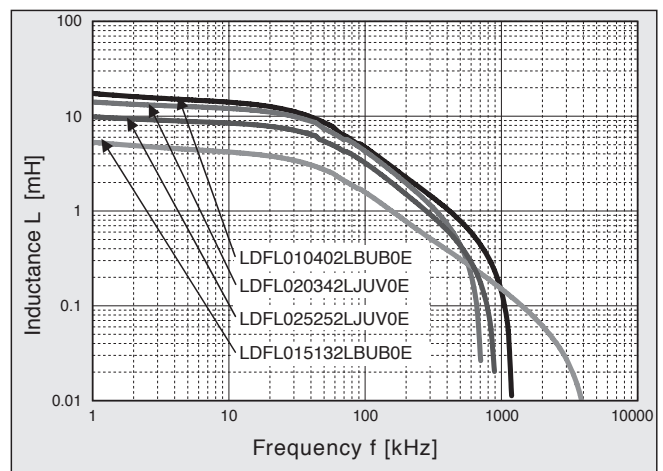
LDFL010402LBUB0E, LDFL015132LBUB0E listed in the above table are coils of lying type with pedestal.
For LDFL020342LJUV0E, LDFL025252LJUV0E, lying type is also available. "V" changes into "H" in last the third digit of the name of items.



◆ FREQUENCY - IMPEDANCE CHARACTERISTICS



◆ FREQUENCY - INDUCTANCE CHARACTERISTICS



FL Series

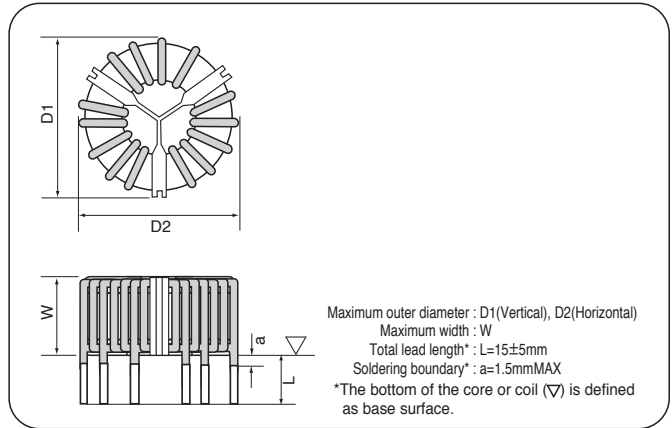
For three-phase circuit

◆ MAJOR USES

- Common mode coils for noise filter in inverter or large capacity power supply

◆ FEATURES

- Small profile, light through adoption of high permeability core
- High inductance in spite of a small number of turns
- Low temperature rise and low D.C. resistance
- Stable frequency performance of noise suppression in wide frequency range
- Excellent temperature characteristics
- Conforming to insulating type B and incombustibility UL94V-0



Coil Part No. (Old Coil Part No.)	Rated Current A	Inductance		D.C.R. mΩ (max)	Winding mm φ × lines	Outside Dimensions		
		10kHz (Typical)	100kHz (Rating)			D1 mm	D2 mm	W mm
		mH	mH					
LDFL015802LGQH0E (FL15802LGQPBF)	15	30.0	8.0	15	2.0 × 1P	65.0	65.0	35.0
LDFL020402LGQH0E (FL20402LGQPBF)	20	16.0	4.0	6	2.3 × 1P	65.0	65.0	35.0
LDFL025282LGQH0E (FL25282LGQPBF)	25	10.0	2.8	5	1.8 × 2P	65.0	65.0	35.0
LDFL030172LGQH0E (FL30172LGQPBF)	30	7.0	1.7	4	2.0 × 2P	65.0	65.0	35.0
LDFL010822LNQH0E (FL10822LNQPBF)	10	27.0	8.2	18	1.5 × 1P	56.0	56.0	32.0
LDFL020302LNQH0E (FL20302LNQPBF)	20	11.0	3.0	6	2.0 × 1P	56.0	56.0	32.0

◆ COIL STANDARD SPECIFICATIONS

