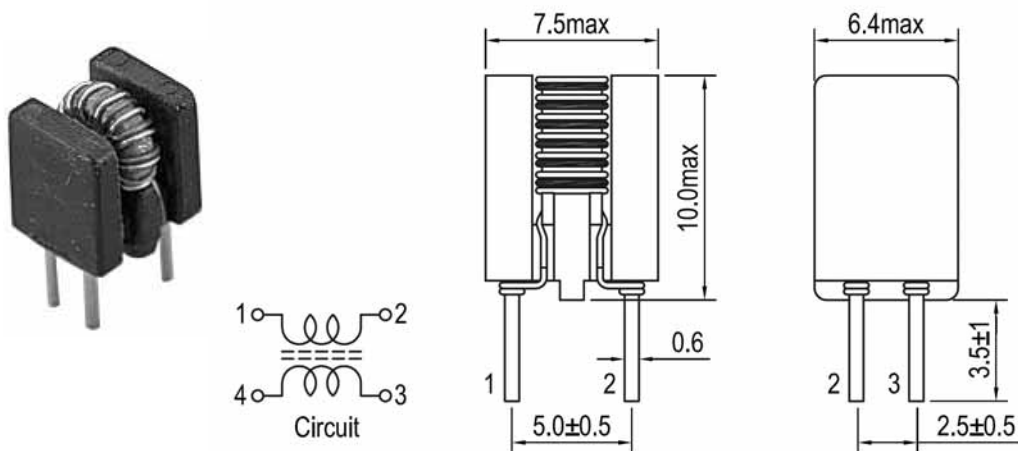




EMC SUPPRESSORS / COMMON MODE FILTER

LFD 648075 TYPE

Shape and Size :(Dimension are in mm)



Features :

- . Common mode for DC power lines.
- . Single layer winding for minimum capacitance.
- . meets UL 94V-0 flammability standard.

Ordering Information :

LFD 648075 - 150 - 401

(1) (2) (3) (4)

(1) Type: Data line filter.

(2) Style : Base Size

(3) Inductance: Example: 150 is 15uH.

(4) Impedance: 401 is 400 ohm Min.

Characteristics :

- . Rated Current : 500mA Max, obtained when temperature rise to 20 .
- . Rated voltage: DC 50V.
- . Operating temperature: -25 to 85
- . Dielectric strength : 50VDC (1minute between lines)
- . Insulation resistance: 10M Ω Min(100VDC,between lines).

Applications :

- . EMI filters.
- . Personal computers..
- . Communication equipment.

Test equipments and test setup :

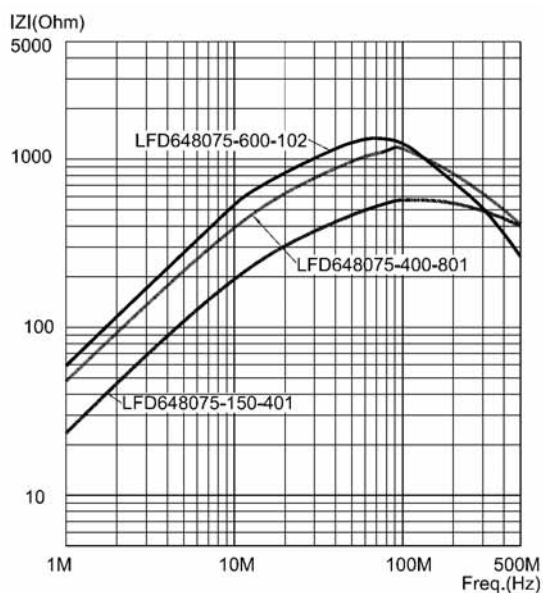
L : HP4284A Precision LCR meter @1kHz 1V.

DCR : Milli-ohm meter.

Z : HP4191A RF impedance analyzer @100MHz.

Part No.	L1=L2 (uH) ±35%	DCR (mOhm) Max	Z (Ohm) Min
LFD648075-150-401	15	35	400
LFD648075-400-801	40	45	800
LFD648075-600-102	60	50	1000

Impedance to Frequency curve

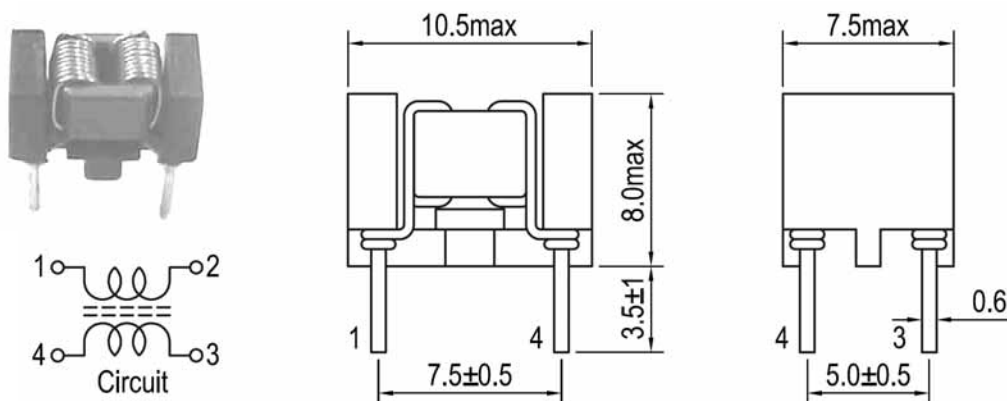




EMC SUPPRESSORS / COMMON MODE FILTER

LFD 707010 TYPE

Shape and Size :(Dimension are in mm)



Features :

- . Common mode for DC power lines.
- . Single layer winding for minimum capacitance.
- . meets UL 94V-0 flammability standard.

Ordering Information :

LFD 707010 - 7R7 U - 3A

(1) (2) (3) (4) (5)

(1) Type : DC Line Filters.

(2) Style : Base Size

(3) Inductance : **7R7** for 7.7uH.

(4) Tolerance : "U" : Minimum.

(5) Rated Current : 3A.

Characteristics :

- . Rated Current : obtained when temperature rise to 20 .
- . Rated voltage : DC 50V.
- . Operating temperature : -25 to 85 .
- . Dielectric strength : 200VDC(1minute between lines)
- . Insulation resistance : 10M Ω Min(100VDC, between lines).

Applications :

- . EMI filters.
- . Personal computers..
- . Communication equipment.

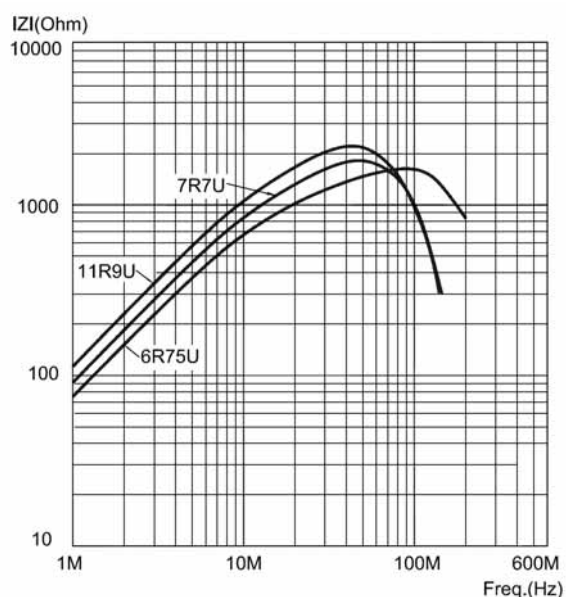
Test equipments and test setup :

L : HP4284A LCR meter @100kHz 1mA.

DCR : Milli-ohm meter.

Impedance : HP 4191A RF impedance analyzer.

Impedance to Frequency curve



Part No.	L1=L2 (uH)	DCR (mOhm)	Rated current (A) Max
	Min	Max	
LFD707010-6R75U-3A	6.75	20	3.0
LFD707010-7R7U-2.5A	7.7	30	2.5
LFD707010-11R9U-2A	11.9	45	2.0

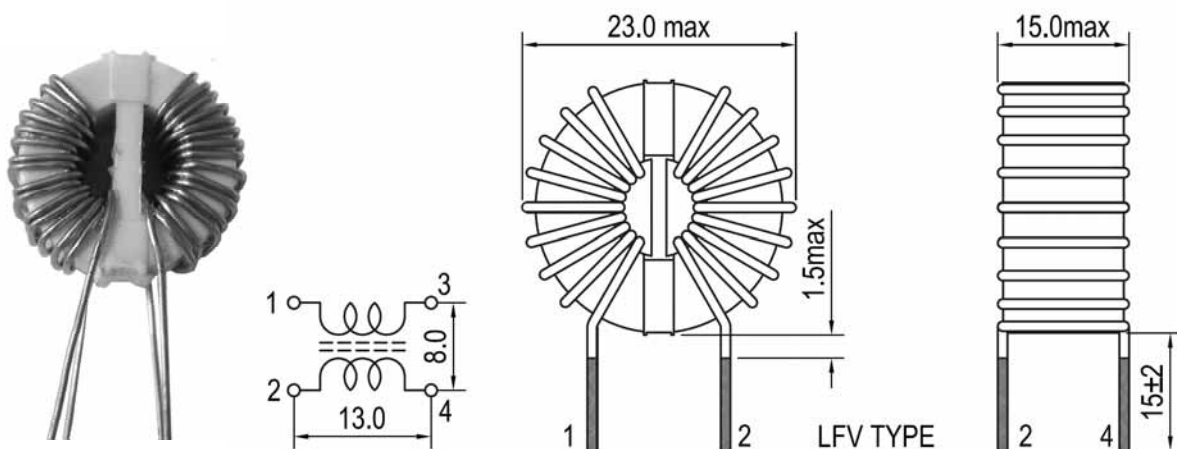




EMC SUPPRESSORS / AC LINE FILTER

LFV / LFH / LFT / LFLV/ LFLH / LFU TYPE

Shape and size : (Dimensions are in mm)



Feature :

- . Line filters suppressing conductive noise ranging from low to high frequencies generated at power supply circuits of various electronic equipment .
- . High safety and reliability .
- . Many configuration available.
- . Available as vertically or horizontally mounted.
- . Easy PC board mounting.
- . Customer's specifications are welcome.

Ordering information :

LF V - 102 U - 2A

(1) (2) (3) (4) (5)

(1) Type : Line Filter .

(2) Style: "V" is vertical structure; "H" is horizontal structure; "U" "T" is core type; Others: "V129"; "LV"; "LH"; "U9.8"; "U10"; "U16"; "UT20";...

(3) Inductance : 102 for 1000 uH.

(4) Tolerance: "U" means Minimum.

(5) Rate current : Amp.

Inductance and rated current ranges :

. LfV129	600uH ~ 5.0mH	3A ~ 1A
. LFV / T	1.0mH ~ 15.0mH	15A ~ 1A
. LFH	1.0mH ~ 10.0mH	2A ~ 1A
. LFLH	150uH ~ 3.0 mH	12A ~ 3A
. LFLV	200uH ~ 5.0 mH	15A ~ 3A
. LFC	300uH ~ 5.5 mH	2A
. LFU9.8	500uH ~ 10.0mH	1A ~ 0.1A
. LFU10	1.0mH ~ 10.0mH	2A ~ 0.3A
. LFU16	1.5mH ~ 33.0mH	1.5A ~ 0.4A
. LFUT20	750uH ~ 33.0mH	1.8A ~ 0.3A

Test equipments and test setup :

L : LCR meter @ 1KHz .

DCR : Milli-ohm meter .

Insulation: 7142 AC/DC withstand/insulation tester.

Characteristics :

- . Rated current: Obtained when temperature rise to 40 .
- . Rated voltage: 250VAC.
- . Insulation: AC 2000V 1 minute between line & line.
- . Insulation Resistance: 100 MΩ Min when DC 500V between line & line.
- . Operating temperature : -25 to 105 .

Applications :

- . Minimizes noise emissions for conforming to FCC, VCCI, FTZ, CISPR, JTTC and VDE.
- . Applied Equipment: TV, VCR, Switching Power sources, NC machines, Computer systems, Peripheral units and Measuring instruments

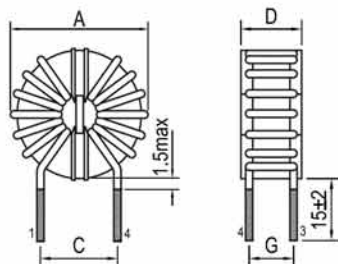


EMC SUPPRESSORS / AC LINE FILTER

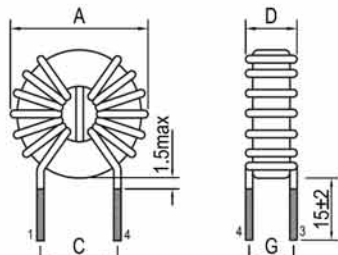
LFB / LFT / LFTB TYPE

Shape and size : (Dimensions are in mm)

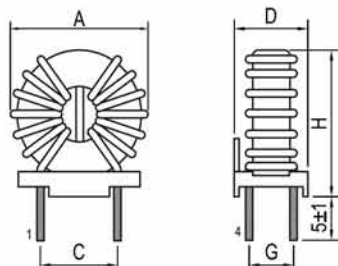
Electrical characteristics:



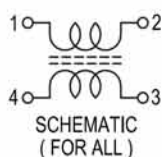
LFB type figure 1 (T core with plastic case)



LFB type figure 2 (T core with paint coating)



LFTB type figure 3 (LFT type with base)



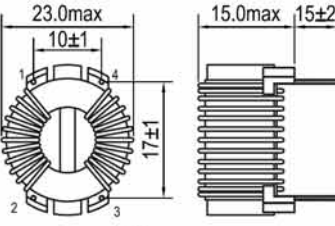
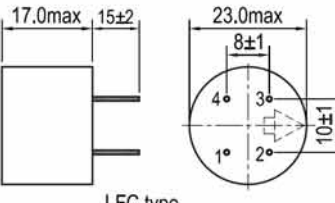
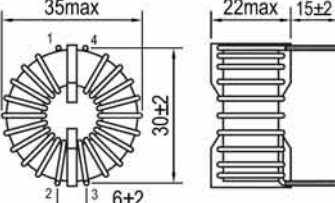
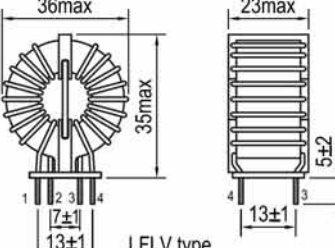
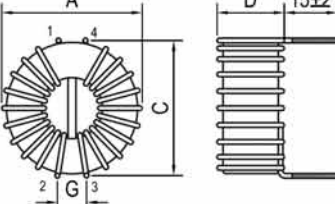
3L P / N	A max	D max	C	G	Figure
LFB129	17.5	14.5	10 typ	10 typ	figure 1
LFB	23.0	15.0	13 typ	12 typ	
LFB2208	30.0	15.0	13 typ	12 typ	
LFB2513	34.0	20.0	20 typ	18 typ	
LFB3113	40.0	20.0	20 typ	18 typ	
LFB3715	45.0	23.0	25 typ	20 typ	
LFT1206	16.0	10.0	10 typ	8 typ	figure 2
LFT1608	20.0	12.0	13 typ	10 typ	
LFT2208	27.0	12.5	13 typ	10 typ	
LFT2513	30.0	18.0	20 typ	15 typ	
LFT3113	37.0	19.0	20 typ	15 typ	
LFT3715	43.0	21.0	25 typ	18 typ	
LFTB1206	17.5	14.5	10.0±1	8.0±1	figure 3
LFTB1608	23.0	15.0	15.0±1	10.0±1	
LFTB2208	30.0	16.0	20.3±1	10.2±1	
LFTB2513	34.0	21.0	23.0±1	15.2±1	
LFTB3113	40.0	21.0	23.0±1	15.2±1	
LFTB3715	45.0	24.0	30.5±1	17.8±1	

Part No.		L (mH) Min	Rated Current (Amp.)	DCR (mOHM) Max
LFB129 - LFT1206 - LFTB1206 -	601U - 1A	0.6	1	60
	601U - 2A	0.6	2	50
	601U - 3A	0.6	3	30
	102U - 1A	1.0	1	70
	102U - 2A	1.0	2	50
	102U - 3A	1.0	3	35
	202U - 1A	2.0	1	100
	202U - 2A	2.0	2	70
	302U - 2A	3.0	2	85
	502U - 1A	5.0	1	150
LFB - LFT1608 - LFTB1608 -	102U - 2A	1.0	2	80
	202U - 2A	2.0	2	110
	302U - 2A	3.0	2	150
	502U - 1A	5.0	1	200
	802U - 1A	8.0	1	230
	103U - 1A	10.0	1	260
LFB2208 - LFT2208 - LFTB2208 -	601U - 8A	0.60	8	9.1
	102U - 6A	1.00	6	15
	202U - 6A	2.0	6	25
	302U - 5A	3.0	5	35
	502U - 4A	5.0	4	45
	103U - 3A	10.0	3	85
LFB2513 - LFT2513 - LFTB2513 -	201U - 15A	0.2	15	5
	601U - 8A	0.6	8	15
	102U - 5A	1.0	5	25
	152U - 5A	1.5	3	30
	302U - 5A	3.0	5	35
	502U - 3A	5.0	3	70
LFB3113 - LFT3113 - LFTB3113 -	601U - 15A	0.6	15	7
	102U - 10A	1.0	10	20
	302U - 6A	3.0	6	90
	502U - 5A	5.0	5	100
	103U - 3A	10	3	180
LFB3715 - LFT3715 - LFTB3715 -	102U - 15A	1.0	15	8
	332U - 15A	3.3	15	10
	502U - 15A	5.0	15	15
	103U - 10A	10	10	28
	153U - 10A	15	10	33

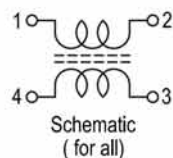


EMC SUPPRESSORS / AC LINE FILTER

LFH / LFC / LFLH / LFLV / LFTH TYPE

Shape and size : (Dimensions are in mm)					Electrical characteristics:			
					Part No.	L (mH) Min	Rated Current (Amp.)	DCR (mOHM) Max
  LFH type					LFH - 102U- 2A	1.0	2	80
					LFH - 202U- 2A	2.0	2	110
					LFH - 302U- 2A	3.0	2	150
					LFH - 502U- 1A	5.0	1	200
					LFH - 802U- 1A	8.0	1	230
					LFH - 103U- 1A	10	1	260
  LFC type					LFC - 301U- 2A	0.3	2	60
					LFC - 601U- 2A	0.6	2	80
					LFC - 102U- 2A	1.0	2	100
					LFC - 152U- 2A	1.5	2	105
					LFC - 202U- 2A	2.0	2	150
					LFC - 302U- 2A	3.0	2	180
  LFLH type (T core with plastic case)					LFLH - 151U- 12A	0.15	12	8
					LFLH - 301U- 9A	0.3	9	15
					LFLH - 601U- 9A	0.6	9	20
					LFLH - 102U- 3A	1.0	3	50
					LFLH - 302U- 3A	3.0	3	80
  LFLV type					LFLV - 152U - 3A	1.5	3	45
					LFLV - 502U - 3A	5.0	3	70
					LFLV - 102U - 5A	1.0	5	25
					LFLV - 302U - 5A	3.0	5	35
					LFLV - 601U - 8A	0.6	8	15
					LFLV - 201U - 15A	0.2	15	5
  LFTH type (T core with paint coating)					LFTH2208 - 601U - 8A	0.6	8	9.1
					LFTH2208 - 102U - 6A	1.0	6	15
					LFTH2208 - 202U - 6A	2.0	6	25
					LFTH2208 - 302U - 5A	3.0	5	35
					LFTH2208 - 502U - 4A	5.0	4	45
					LFTH2208 - 103U - 3A	10	3	85
					LFTH2508 - 151U- 12A	0.2	12	8
					LFTH2508 - 301U- 9A	0.3	9	15
					LFTH2508 - 601U- 9A	0.6	9	20
					LFTH2508 - 102U- 3A	1.0	3	50
					LFTH2508 - 302U- 3A	3.0	3	80

3L P/N	A (Max)	D (Max)	C (Ref)	G (Ref)
LFTH2208	27.0	13.0	24.0	6.0
LFTH2508	30.0	13.0	27.0	6.0



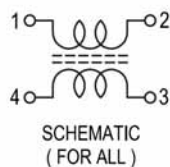
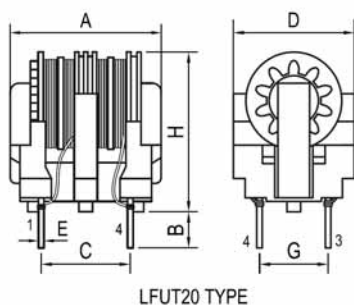
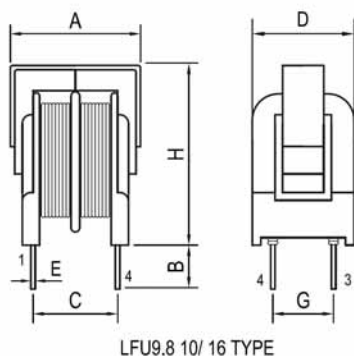
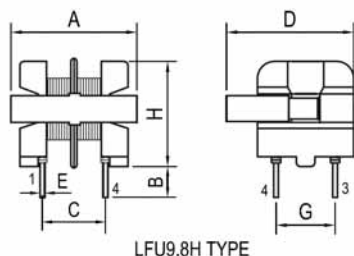


EMC SUPPRESSORS / AC LINE FILTER

LFU9.8 / LFU10 / LFU16 / LFUT20 TYPE

Shape and size : (Dimensions are in mm)

Electrical characteristics:



3L P/N	A max	B ±1.0	C ±0.5	D max	E ±0.05	G ±0.5	H max
LFU9.8	17.0	4.0	8.0	12.0	0.60	7.0	17.0
LFU9.8H	17.0	4.0	8.0	16.0	0.60	7.0	13.0
LFU10	19.0	4.0	13.0	17.0	0.70	10.0	22.0
LFU16	23.0	4.0	13.0	19.5	0.70	10.0	27.5
LFUT20	22.0	4.0	13.0	17.5	0.80	10.0	23.5

Part No.		L (mH) Min	Rated Current (Amp.)	DCR (OHM) Max
LFU9.8- LFU9.8H	103U- 0.1A	10	0.1	8.0
	802U- 0.2A	8.0	0.2	6.0
	502U- 0.2A	5.0	0.2	4.5
	502U- 0.3A	5.0	0.3	3.5
	202U- 0.5A	2.0	0.5	1.0
	501U- 1A	0.5	1.0	0.3
LFU10- 103U- 0.3A		10.0	0.3	3.0
LFU10- 502U- 0.3A		5.0	0.3	2.0
LFU10- 502U- 0.5A		5.0	0.5	1.5
LFU10- 402U- 0.7A		4.0	0.7	1.0
LFU10- 302U- 1.0A		3.0	1.0	0.5
LFU10- 202U- 1.0A		2.0	1.0	0.5
LFU10- 102U- 1.0A		1.0	1.0	0.4
LFU10- 102U- 1.3A		1.0	1.3	0.3
LFU10- 102U- 1.5A		1.0	1.5	0.2
LFU10- 601U- 2.0A		0.6	2.0	0.2
LFU16- 303U- 0.4A		30	0.4	2.8
LFU16- 203U- 0.4A		20	0.4	2.2
LFU16- 203U- 0.5A		20	0.5	1.6
LFU16- 103U- 0.6A		10	0.6	1.2
LFU16- 802U- 0.8A		8.0	0.8	0.8
LFU16- 602U- 0.8A		6.0	0.8	0.7
LFU16- 602U- 1.0A		6.0	1.0	0.5
LFU16- 402U- 1.0A		4.0	1.0	0.4
LFU16- 352U- 1.2A		3.5	1.2	0.3
LFU16- 252U- 1.2A		2.5	1.2	0.25
LFU16- 152U- 1.5A		1.5	1.5	0.15
LFUT20- 333U- 0.3A		33	0.3	2.50
LFUT20- 223U- 0.4A		22	0.4	1.70
LFUT20- 153U- 0.5A		15	0.5	1.20
LFUT20- 103U- 0.7A		10	0.7	0.75
LFUT20- 682U- 0.8A		6.8	0.8	0.53
LFUT20- 472U- 1A		4.7	1.0	0.38
LFUT20- 332U- 1A		3.3	1.0	0.31
LFUT20- 222U- 1.2A		2.2	1.2	0.18
LFUT20- 152U- 1.5A		1.5	1.5	0.14
LFUT20- 751U- 1.8A		0.75	1.8	0.12

