

SLF Series

- (1). SLF2012, SLF3216 series
- (2). SLF0503 series
- (3). SLF0602 series
- (4). SLF0904 series



Applications

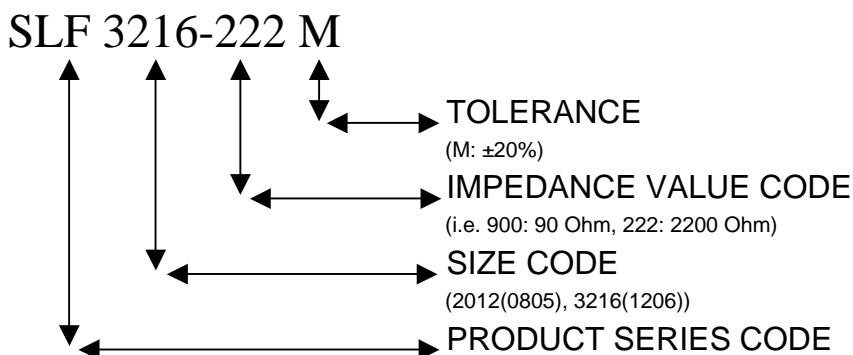
- > EMI radiation noise suppression for any electronic device.
- > USB line for personal computers and peripheral.
- > Provide common mode noise attenuation.
- > LCD Panels, Low-Voltage Differential Signal (LVDS).

Features

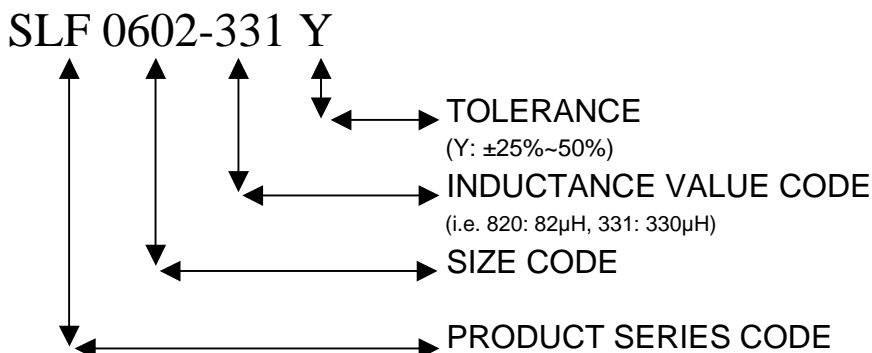
- > High effective in noise suppression, high common mode impedance at noise band and low differential-mode impedance at signal band.
- > Low differential-mode impedance with high coupling factor, there is almost no distortion on high speed signal.
- > Low Profile - very effective in space conscious applications.

Part Numbering Systems

(1) SLF2012, SLF3216 Series:



(2), (3) & (4) SLF0503, 0602 & 0904 Series:

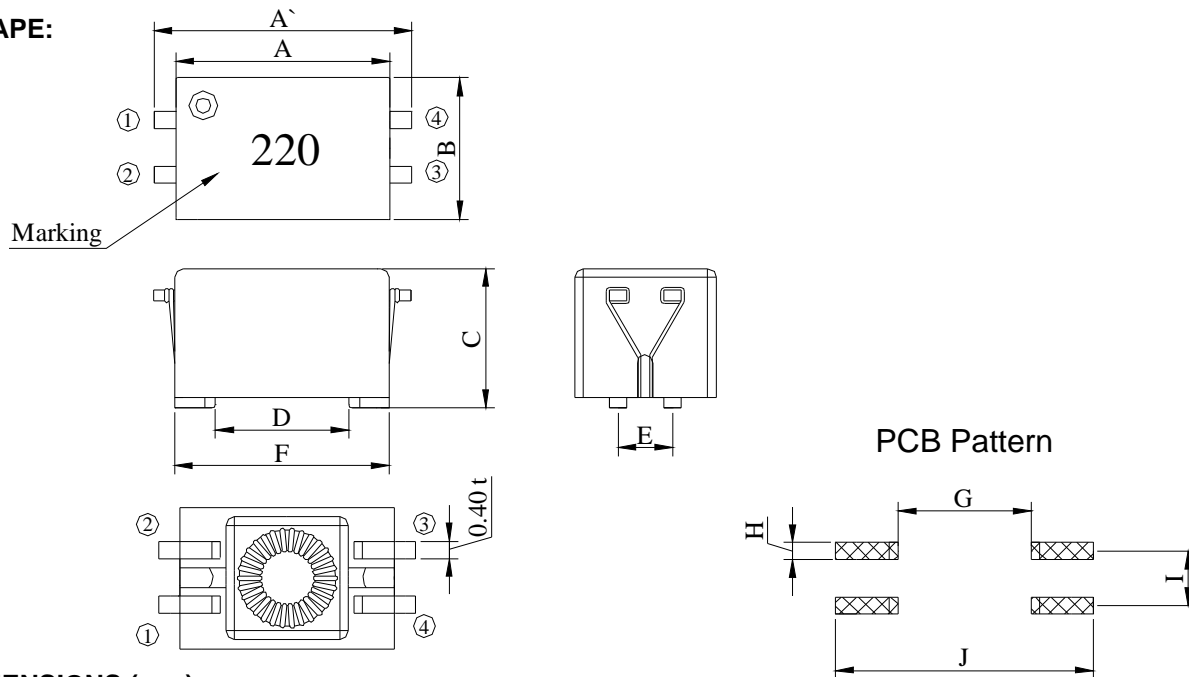


SLF Series

General Dimensions and Configuration

(2). SLF0503 series

SHAPE:

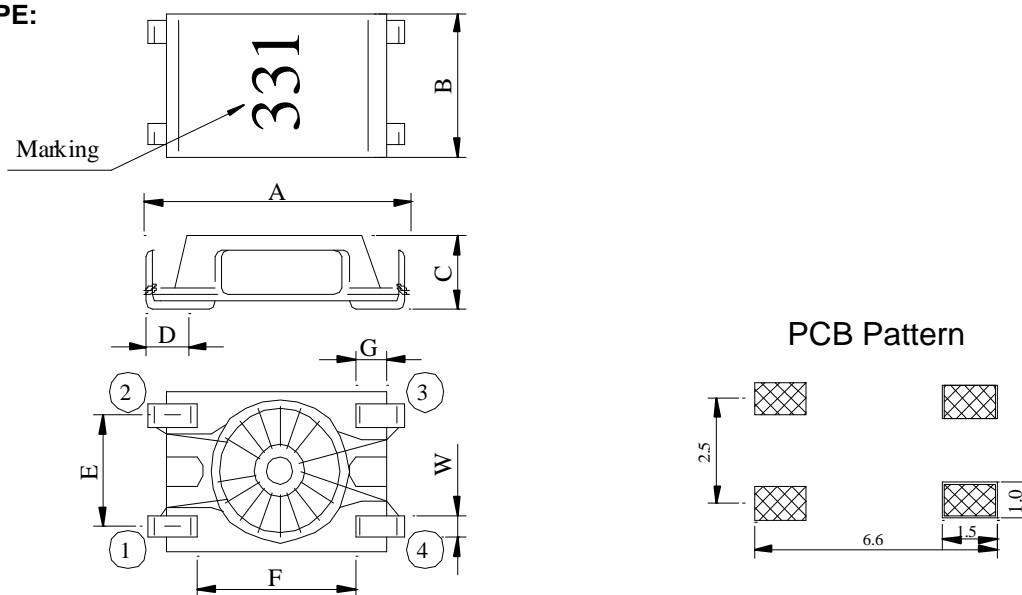


DIMENSIONS (mm):

SERIES	A'	A	B	C	D (typ)	E (typ)	F (typ)	G (typ)	H (ref)	I (ref)	J (ref)
SLF0503	6.00±0.30	5.00±0.30	3.30±0.30	3.30±0.20	3.10	1.27	5.00	2.70	0.60	1.27	6.40

(3). SLF0602 series

SHAPE:



DIMENSIONS (mm):

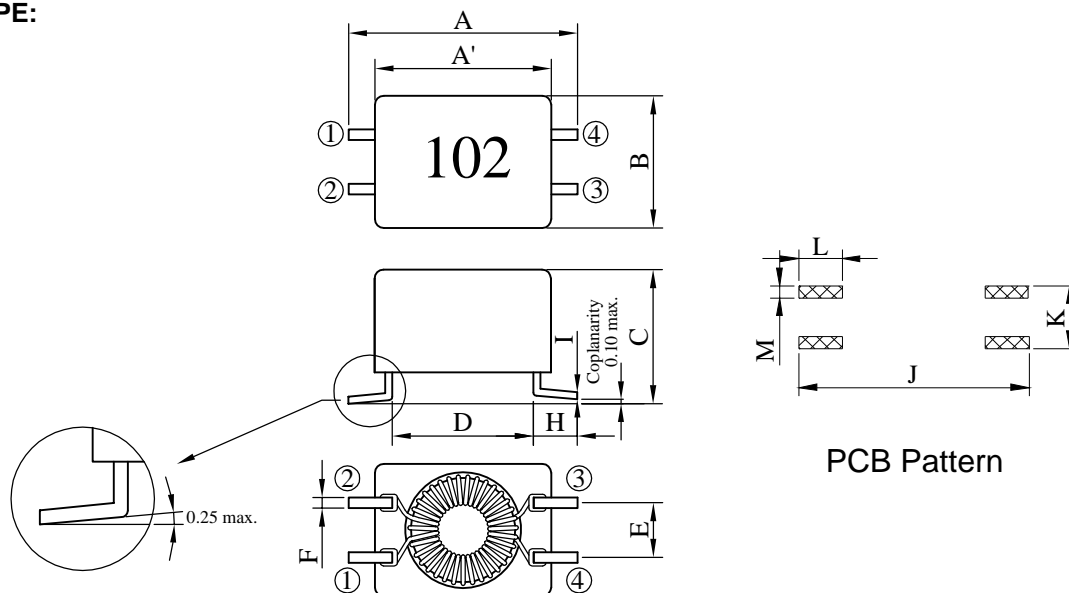
SERIES	A	B	C	D	E	F	G	W
SLF0602	6.50 max	3.60±0.15	1.65±0.15	0.90 min	2.50±0.10	3.40±0.20	0.80 max	0.55±0.10

SLF Series

General Dimensions and Configuration (Cont'd)

(4). SLF0904 series

SHAPE:



DIMENSIONS (mm):

SERIES	A	A' (typ)	B	C	D (typ)	E (typ)
SLF0904	9.00±0.30	7.30	5.40±0.20	4.70±0.15	5.50	2.54
F (typ)	H (typ)	I (typ)	J (ref)	K (ref)	L (ref)	M (ref)
0.50	1.75	0.30	9.60	3.70	2.20	1.20

(2). SLF0503 Series (SMD Line Filter)

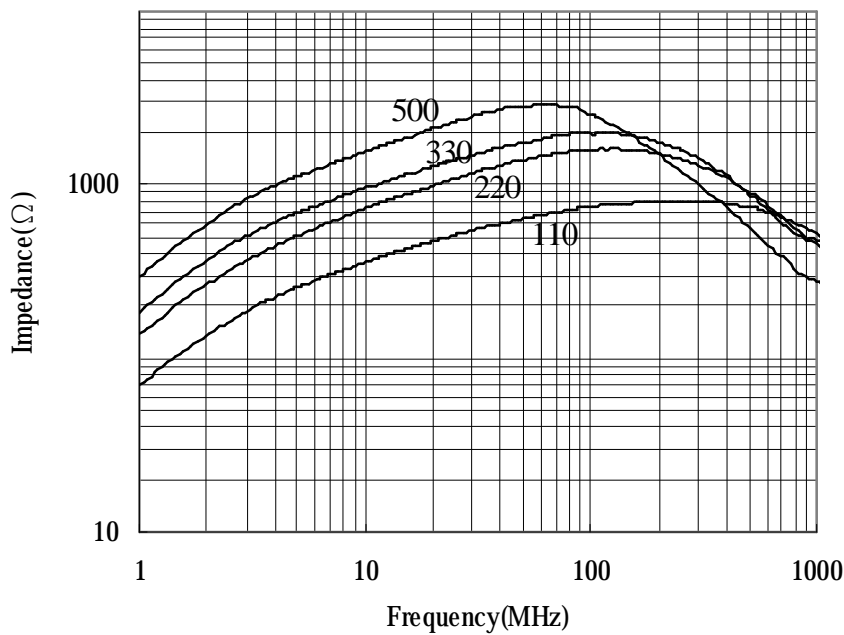
Electrical Characteristics

Part No.	L1 , L2 @10KHz, 0.1Vrms (μ H)	Freq. Range (MHz)	Impedance (Ω) Min.	DCR (Ω) (each Winding)		Rated Current (mA) Typ.	HI-POT (N-N)
				Max.	Typ.		
SLF0503-110Y	11 +50% .. -30%	100~400	450	0.18	0.13	100	500 Vac 60 Hz 3 mA 1 second
SLF0503-220Y	22 +50% .. -30%	40~250	900	0.23	0.17	100	
SLF0503-330Y	33 +50% .. -30%	30~180	1000	0.27	0.20	100	
SLF0503-500Y	50 +50% .. -30%	20~60	1200	0.32	0.24	100	

- 1a). Rated voltage: 50Vdc / 100Vdc (ref.)
- 1b). Rated current : Based on Temperature rise 25 max.
- 2. Operating temperature range : -40 ~ +105

Rating Curves

IMPEDANCE VS. FREQUENCY



(3). SLF0602 Series (SMD Line Filter)

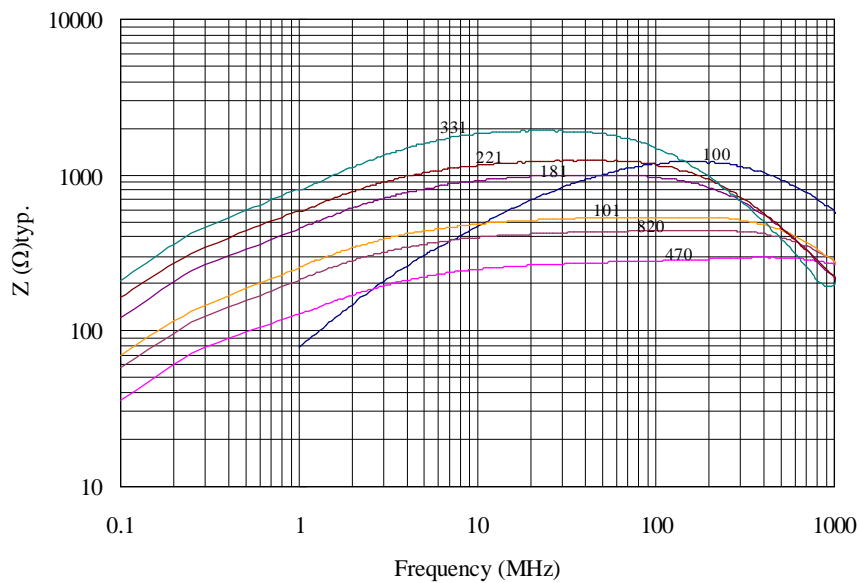
Electrical Characteristics

Part No.	L (μ H)	L-LI (μ H) Max.	DCR () Max. N1=N2	Rated current (mA)	Impedance (Z)		HI-POT Test
					Freq.range MHz	Min. (Ω)	
SLF0602-100Y	10 \pm 50%	1.0	0.24	300	35~570	600	250 Vac 60 Hz 3 mA 1 minute
SLF0602-470Y	47 \pm 50%	4.0	0.16	300	4~1600	140	
SLF0602-820Y	82 \pm 50%	4.0	0.20	300	3~850	220	
SLF0602-101Y	100 \pm 50%	8.0	0.22	300	3~660	260	
SLF0602-181Y	180 \pm 50%	8.0	0.25	300	3~250	500	
SLF0602-221Y	220 \pm 50%	10.0	0.28	300	3~210	600	
SLF0602-331Y	330 \pm 50%	10.0	0.30	300	3~120	900	

- 1a). Nominal voltage: 60Vdc
- 1b). Rated current : Based on Temperature rise 20 max.
- 2. Operating temperature range : -40 ~ +105

Rating Curves

IMPEDANCE VS. FREQUENCY



(IV) SMD COMMON MODE CHOKE (LINE FILTER)

(4). SLF0904 Series (SMD Line Filter)

Electrical Characteristics

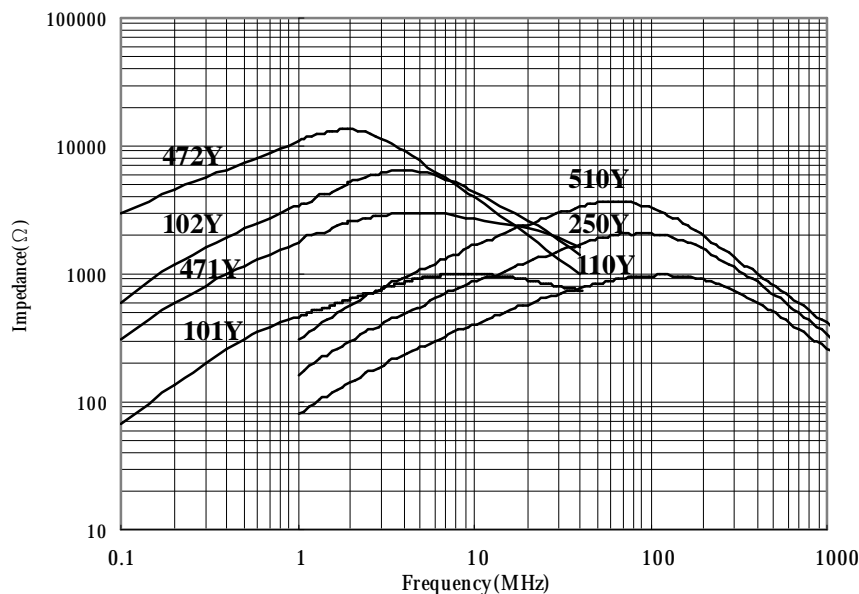
Part No.	L(1-4) @100KHz, 0.1Vrms (μ H)	LL(1-4) (μ H) @100KHz, 0.1Vrms Typ. (2-3 short)	DCR (Ω) Max.	Rated Current (A) Max.	Impedance (Ω) Min.	Winding	Frequency Range (MHz)	HI-POT (N-N)
SLF0904-110Y	11 \pm 25%	0.05	0.12	0.50	300	Bifilar	20~300	250 Vac 60 Hz 3 mA 1 sec.
SLF0904-250Y	25 \pm 25%	1.50	0.20	0.50	700	Sector	20~150	
SLF0904-510Y	51 \pm 25%	2.00	0.30	0.50	1500	Sector	20~100	
SLF0904-101Y	100 \pm 25%	0.85	0.10	0.50	700	Sector	3~20	
SLF0904-471Y	470 \pm 25%	0.28	0.28	0.50	2000	Bifilar	2~15	
SLF0904-102Y	1000 \pm 25%	0.29	0.40	0.50	2800	Bifilar	1~10	
SLF0904-472Y	4700 \pm 25%	0.30	0.70	0.20	6000	Bifilar	0.5~3	

1a). Rated voltage: 80Vdc / 42Vac

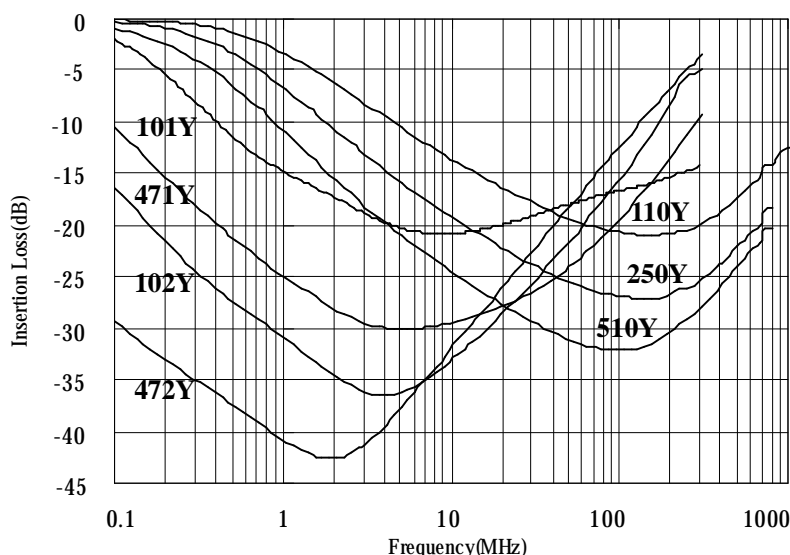
1b). Rated current : Based on Temperature rise 30 max.

2. Operating temperature range : -40 ~ +105

Rating Curves



Impedance vs Freq.



Insertion Loss vs Freq.