

# Chip Ferrite Inductors(2012 Series)

## Model No.FI-B 2012

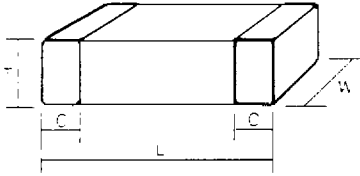
### Features

- 1.SMD type chip inductors utilizing monolithic structure provide highly reliable surface mount applications.
- 2.Superior Q characteristics guaranteed over the wide frequency range allow high frequency applications.
- 3.Terminal electrode has excellent solder heat resistance for soldering.

### Applications

Prevention of electromagnetic interference to signals on the secondary side of electronic equipment.

### Shape and dimensions



Type	L	W	T	C(max)
2012	2.0±0.2	1.25±0.2	1.25±0.2	0.6
	[.079±0.08]	[.049±0.08]	[.049±0.08]	[.024]

mm[inches]

### Ordering information

FI — B 2012 — 222 K J T  
 (1) (2) (3) (4) (5) (6) (7)

- (1) Series
- (2) Material
- (3) Size dimensions  
 The first two digits : length (mm)  
 The last two digits : width (mm)
- (4) Inductance  
 The first two digits are significant, the last digits is the number of zeros following.  
 N : a decimal point placed between first two digits.
- (5) Tolerance  
 K : ±10%  
 M : ±20%
- (6) Termination  
 J : Nickel barrier  
 P : Silver-palladium
- (7) Packing  
 B : Bulk pack  
 T : Tape & Reel (φ 178mm[7inches])  
 L : Tape & Reel (φ 254mm[10inches])

### Specifications

Part No.	Inductance		Q		L.Q test frequency (MHz)	SRF(MHz)		DCR(m Ω)		Rated DC current (mA)max
	nH	Tolerance	(min.)	Typ.		min.	Typ.	max.	Typ.	
FI-B2012-102	1.0	±10/20%	45	55	10	75	105	400	210	50
FI-B2012-122	1.2	±10/20%	45	55	10	65	95	500	260	50
FI-B2012-152	1.5	±10/20%	45	55	10	60	85	500	260	50
FI-B2012-182	1.8	±10/20%	45	55	10	55	75	600	310	50
FI-B2012-222	2.2	±10/20%	45	60	10	50	70	650	360	30
FI-B2012-272	2.7	±10/20%	45	60	10	45	65	750	410	30
FI-B2012-332	3.3	±10/20%	45	60	10	40	55	800	460	30
FI-B2012-392	3.9	±10/20%	45	60	10	38	50	900	510	30
FI-B2012-472	4.7	±10/20%	45	60	10	35	48	1000	560	30
FI-B2012-562	5.6	±10/20%	50	60	4	32	45	900	510	15
FI-B2012-682	6.8	±10/20%	50	60	4	29	40	1000	560	15
FI-B2012-822	8.2	±10/20%	50	60	4	26	36	1100	610	15
FI-B2012-103	10.0	±10/20%	50	60	2	24	33	1150	660	15

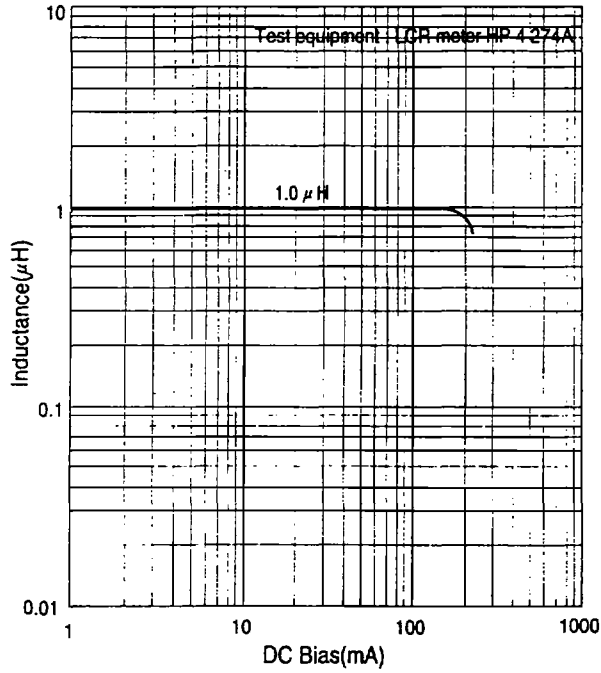
SRF : Self-Resonant Frequency

DCR : DC Resistance

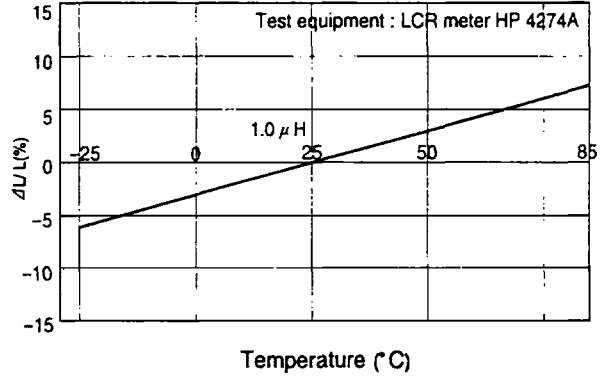
K11ML5030\*

# Electrical characteristics

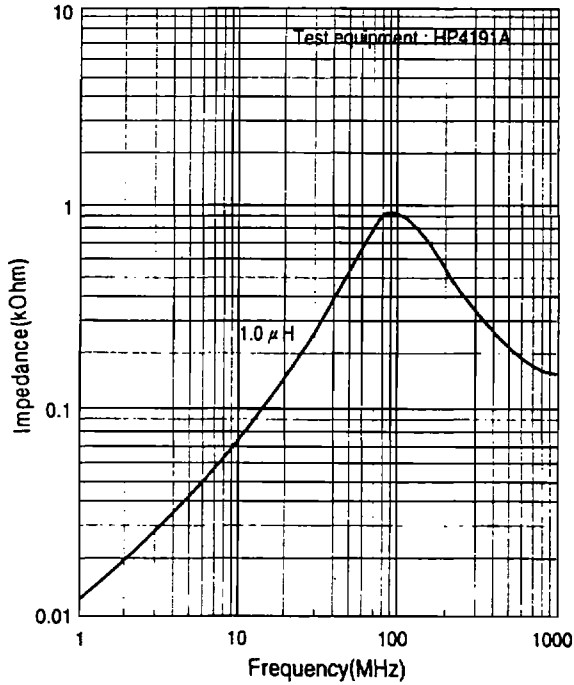
## DC bias characteristics



## Temperature characteristics



## Impedance characteristics



## Q characteristics

