

### Features

1. Ideal for high density surface mount applications as magnetic shield eliminates crosstalk.
2. Highly reliable in wide temperature and humidity range. Superior Q characteristics in wide frequency.
3. Terminal electrode has excellent solder heat resistance.
4. Lead Free (RoHS compliance).

### Applications

1. Prevention of electromagnetic interference to signals on the secondary side of electronic equipment.
2. Noise Suppression in HDTV, Portable device , computers and peripheral devices.

### Ordering Information

$\frac{\text{SFI}}{(1)}$  -  $\frac{\text{D}}{(2)}$   $\frac{\text{2012}}{(3)}$  -  $\frac{\text{153}}{(4)}$  -  $\frac{\text{K}}{(5)}$   $\frac{\text{J}}{(6)}$   $\frac{\text{T}}{(7)}$

**(1) Series**

**(2) Material & Design**

**(3) Dimensions**

The first two digits : length(mm)  
The last two digits : width(mm)

**(4) Inductance**

First two digits are values.  
Last digit is the number of zeros following.

**(5) Tolerance**

K :  $\pm 10\%$   
M:  $\pm 20\%$

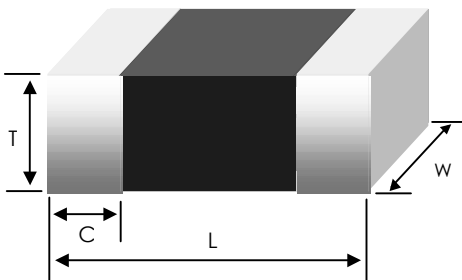
**(6) Termination**

J : Nickel barrier

**(7) Packing**

B : Bulk Packing  
T : Tape & Reel ( $\Phi$  178mm [7inches])  
L : Tape & Reel ( $\Phi$  254mm [10inches])

### Shape and Dimensions



Unit : mm [inches]

Type	L	W	T	C
SFI-□2012	2.0 $\pm$ 0.2 [.079 $\pm$ .008]	1.25 $\pm$ 0.2 [.049 $\pm$ .008]	1.25 $\pm$ 0.2 [.049 $\pm$ .008]	0.50 $\pm$ 0.30 [.020 $\pm$ .012]

### Electrical Parameters

Part No.	Inductance		Q		L, Q test frequency (MHz)	SRF(MHz)		DCR(mΩ)		Rated current (mA) max.
	μ H	Tolerance	min.	typ.		min.	typ.	max.	typ.	
SFI-A2012-470□□□	0.048	±10% ±20%	20	60	50	320	400	100	50	300
SFI-A2012-560□□□	0.056		20	60	50	300	380	150	80	300
SFI-A2012-680□□□	0.068		20	60	50	280	350	200	80	300
SFI-A2012-820□□□	0.082		20	60	50	255	320	200	80	300
SFI-A2012-101□□□	0.10		25	50	25	235	300	200	90	250
SFI-A2012-121□□□	0.12		25	50	25	220	280	200	65	250
SFI-A2012-151□□□	0.15		25	50	25	200	250	200	60	250
SFI-A2012-181□□□	0.18		25	50	25	185	230	200	100	250
SFI-A2012-221□□□	0.22		25	50	25	170	220	250	100	250
SFI-A2012-271□□□	0.27		25	50	25	150	200	300	150	250
SFI-A2012-331□□□	0.33		25	50	25	145	180	300	150	250
SFI-A2012-391□□□	0.39		30	50	25	135	170	400	190	200
SFI-A2012-471□□□	0.47		30	50	25	125	160	400	190	200
SFI-A2012-561□□□	0.56		30	50	25	115	150	400	280	150
SFI-A2012-681□□□	0.68		30	50	25	105	135	500	300	150
SFI-A2012-821□□□	0.82		30	50	25	100	125	600	350	150
SFI-B2012-102□□□	1.0		45	75	10	75	105	300	120	100
SFI-B2012-122□□□	1.2		45	75	10	65	95	400	140	100
SFI-B2012-152□□□	1.5		45	75	10	60	85	400	140	100
SFI-B2012-182□□□	1.8		45	75	10	55	75	400	160	100
SFI-B2012-222□□□	2.2		45	80	10	50	70	400	200	50
SFI-B2012-272□□□	2.7		45	80	10	45	65	500	250	50
SFI-B2012-332□□□	3.3		45	80	10	40	55	500	270	50
SFI-B2012-392□□□	3.9		45	80	10	38	50	1000	500	50
SFI-B2012-472□□□	4.7		45	80	10	35	48	1400	700	50
SFI-C2012-562□□□	5.6		50	60	4	32	45	500	250	50
SFI-C2012-682□□□	6.8		50	60	4	29	40	600	330	25
SFI-C2012-822□□□	8.2		50	60	4	26	36	700	380	25
SFI-C2012-103□□□	10.0		50	60	2	24	33	800	450	25
SFI-C2012-123□□□	12.0		50	60	2	22	30	800	470	25
SFI-D2012-153□□□	15.0		30	40	1	19	27	1500	750	15
SFI-D2012-183□□□	18.0		30	40	1	18	25	1500	810	15
SFI-D2012-223□□□	22.0		30	40	1	16	22	700	350	5
SFI-D2012-273□□□	27.0	30	40	1	14	20	800	450	5	
SFI-D2012-333□□□	33.0	30	40	0.4	13	18	1000	600	5	

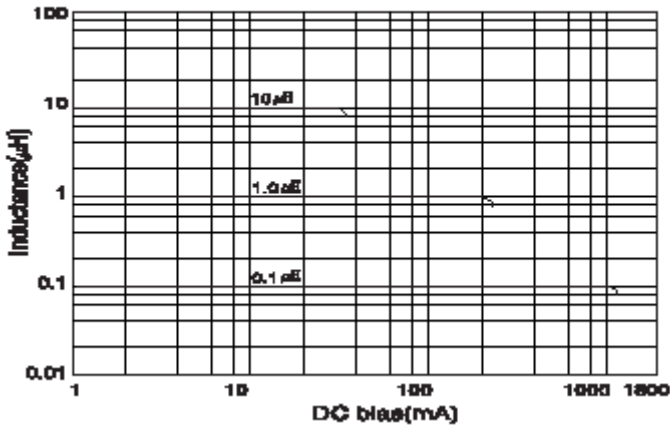
\* SRF : Self-Resonant Frequency.

\* DCR : DC Resistance

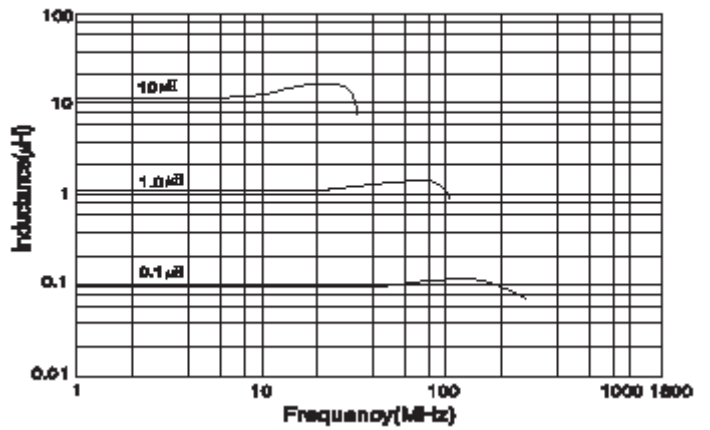
※ Parts with other Inductance Tolerance('J' ± 5%) can be provided upon Customer's request.

### Electrical Characteristic Curves

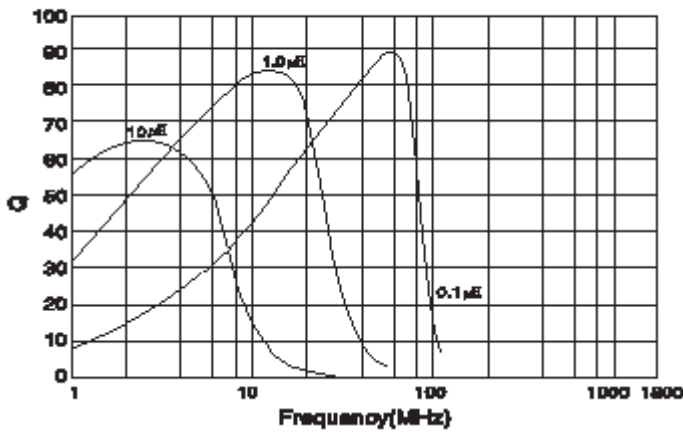
#### DC bias characteristics



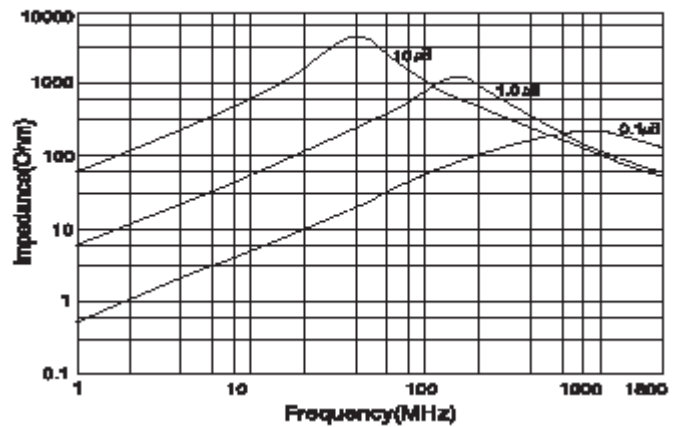
#### Inductance characteristics



#### Q characteristics



#### Impedance characteristics



#### Temperature characteristics

