

Features

1. Perfect for high density surface mount applications since magnetic shield eliminates crosstalk.
2. Highly reliable irwide temperature and humidity range. Superior Q characteristics in wide frequency.
3. Terminal electrode has excellent solder heat resistance.

Applications

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

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S **F** **I** - **A** **1608** - **680** **K** **J** **T**
 (1) (2) (3) (4) (5) (6) (7)

1) Series

2) Material & Design

3) Dimensions

The first two digits : length(mm)

The last two digits : width (mm)

4) Inductance

5) Tolerance

S : ± 5%

K : ± 10%

M : ± 20%

6) Termination

J : Nickel barrier

7) Packing

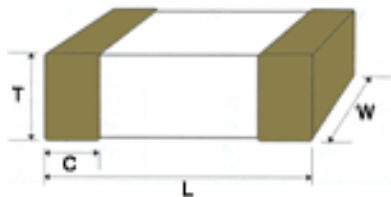
B : Bulk Pack

T : Tape & Reel(*Phi* 178mm (7 inches))

L : Tape & Reel(*Phi* 254mm (10 inches))



Shape and Dimensions



unit:mm[inches]

Type	L	W	T	C(max.)
<u>S F I - []1608-</u>	1.6±0.15 [.063± .006]	0.9±0.15 [.031± .006]	0.8±0.15 [.031±.006]	0.5 [.019]
<u>S F I - []2012-</u>	2.0±0.2 [.079±.008]	1.25 ±0.2 [.049 ± .008]	1.25±0.2 [.031±.006]	0.6 [.024]
<u>S F I - []3216-</u>	3.2±0.2 [.126±.008]	1.6±0.2 [.063±.008]	1.3±0.2 [.051 ±.008]	0.6 [.028]



Specifications

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• SFI1608

Part NO.	Inductance		Q		L,Q test frequency (MHz)	SRF(MHz)		DCR(m Ohm)		Rated Current (mA) max.
	uH	Tolerance	min.	typ.		min.	typ.	max.	typ.	
SFI-A1608-270[][]	0.027	±10%	10	45	50	260	350	90	60	200
SFI-A1608-470[][]	0.047		10	45	50	260	320	150	100	200
SFI-A1608-560[][]	0.056		10	45	50	255	300	200	90	200
SFI-A1608-680[][]	0.068	±20%	10	45	50	250	290	200	90	200
SFI-A1608-820[][]	0.082		10	45	50	245	280	250	120	200
SFI-A1608-101[][]	0.10		15	30	25	240	270	250	140	200
SFI-A1608-121[][]	0.12	± 5%	15	30	25	205	260	300	150	200
SFI-A1608-151[][]	0.15		15	30	25	180	250	350	180	200
SFI-A1608-181[][]	0.18		15	30	25	165	220	400	190	200
SFI-A1608-221[][]	0.22		15	30	25	150	200	400	190	200
SFI-A1608-271[][]	0.27		15	30	25	136	190	500	270	200
SFI-A1608-331[][]	0.33		15	30	25	125	180	550	280	150
SFI-A1608-391[][]	0.39		15	30	25	110	170	600	300	150
SFI-A1608-471[][]	0.47		15	30	25	105	160	700	390	150
SFI-A1608-561[][]	0.56		15	30	25	95	150	900	500	150
SFI-A1608-681[][]	0.68		15	30	25	80	140	900	500	150
SFI-A1608-821[][]	0.82	±20%	15	30	25	75	130	1600	800	100
SFI-A1608-102[][]	1.0		35	50	10	70	95	500	250	100
SFI-A1608-122[][]	1.2		35	50	10	60	80	600	250	100
SFI-A1608-152[][]	1.5		35	50	10	55	70	650	300	50
SFI-A1608-182[][]	1.8		35	50	10	50	70	750	350	50
SFI-A1608-222[][]	2.2		35	50	10	45	60	900	450	50
SFI-A1608-272[][]	2.7		35	50	10	40	55	1000	600	50

• SRF : Self-Resonant Frequency

• DCR : DC Resistance

• SFI2012

Part NO.	Inductance		Q		L,Q test frequency (MHz)	SRF(MHz)		DCR(m Ohm)		Rated Current (mA) max.
	uH	Tolerance	min.	typ.		min.	typ.	max.	typ.	
SFI-A2012-470[][]	0.047	±10%	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%	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	380	200	65	250
SFI-A2012-151[][]	0.15		25	50	25	200	350	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	± 5%	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	±10%	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	±20%	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

• SRF : Self-Resonant Frequency

• DCR : DC Resistance



• SFI2012

Part NO.	Inductance		Q		L,Q test frequency (MHz)	SRF (MHz)		DCR(m Ohm)		Rated Current (mA) max.
	uH	Tolerance	min.	typ.		min.	typ.	max.	typ.	
SFI-C2012-562[][]	5.6	± 5%	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	±10%	50	60	2	22	30	800	470	25
SFI-C2012-153[][]	15.0		30	40	1	19	27	1500	750	15
SFI-C2012-183[][]	18.0	±20%	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

• SFI3216

Part NO.	Inductance		Q		L,Q test frequency (MHz)	SRF(MHz)		DCR(m Ohm)		Rated Current (mA) max.
	uH	Tolerance	min.	typ.		min.	typ.	max.	typ.	
SFI-A3216-470[][]	0.047	±10%	20	60	50	320	400	150	80	300
SFI-A3216-560[][]	0.056		20	60	50	300	360	150	80	300
SFI-A3216-680[][]	0.068		20	60	50	280	330	150	100	300
SFI-A3216-820[][]	0.082	±20%	20	60	50	255	300	150	100	300
SFI-A3216-101[][]	0.10		25	50	25	235	280	200	100	250
SFI-A3216-121[][]	0.12		25	50	25	220	260	200	100	250
SFI-A3216-151[][]	0.15		25	50	25	200	240	200	100	250
SFI-A3216-181[][]	0.18	± 5%	25	50	25	185	220	200	100	250
SFI-A3216-221[][]	0.22		25	50	25	170	200	250	120	250
SFI-A3216-271[][]	0.27		25	50	25	150	180	250	120	250
SFI-A3216-331[][]	0.33		25	50	25	145	170	300	130	250
SFI-A3216-391[][]	0.39		30	50	25	135	160	300	150	200
SFI-A3216-471[][]	0.47		30	50	25	125	145	300	150	200
SFI-A3216-561[][]	0.56		30	50	25	115	135	350	170	150
SFI-A3216-681[][]	0.68		30	50	25	105	125	350	250	150
SFI-A3216-821[][]	0.82		30	50	25	100	115	400	300	150

SFI-B3216-102[][]	1.0	±20%	45	80	10	75	90	250	130	100
SFI-B3216-122[][]	1.2		45	80	10	65	80	300	150	100
SFI-B3216-152[][]	1.5		45	80	10	60	70	300	170	50
SFI-B3216-182[][]	1.8		45	80	10	55	66	500	250	50
SFI-B3216-222[][]	2.2		45	80	10	50	58	600	300	50
SFI-B3216-272[][]	2.7		45	80	10	45	53	600	300	50
SFI-B3216-332[][]	3.3		45	85	10	40	49	700	350	50
SFI-B3216-392[][]	3.9		45	85	10	38	45	800	400	50
SFI-B3216-472[][]	4.7		45	85	10	35	41	800	400	50
SFI-C3216-562[][]	5.6	± 5%	50	65	4	32	38	600	300	50
SFI-C3216-682[][]	6.8		50	65	4	29	34	600	300	50
SFI-C3216-822[][]	8.2		50	65	4	26	31	600	330	50
SFI-C3216-103[][]	10.0		50	65	2	24	28	700	380	50
SFI-C3216-123[][]	12.0		50	65	2	22	26	900	450	25
SFI-C3216-153[][]	15.0		35	45	1	19	23	1100	550	25
SFI-C3216-183[][]	18.0		35	45	1	18	21	1500	800	25
SFI-C3216-223[][]	22.0		35	45	1	16	19	1500	800	25
SFI-C3216-273[][]	27.0		35	45	1	14	17	1500	800	25
SFI-C3216-333[][]	33.0		35	45	0.4	13	16	1600	850	25

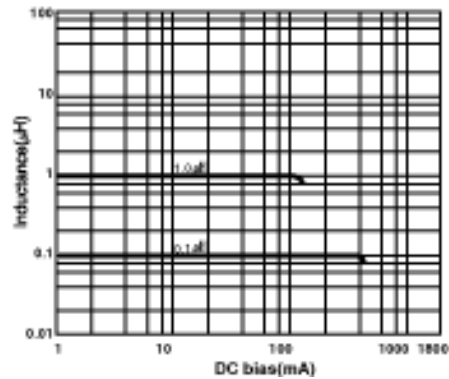
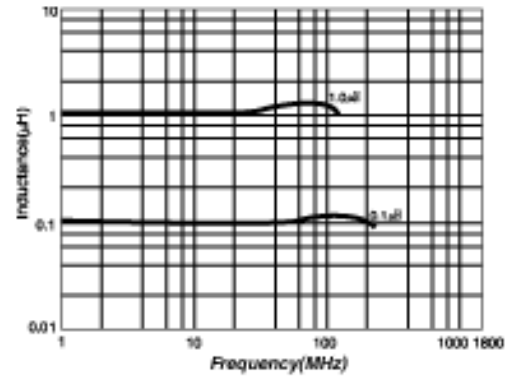
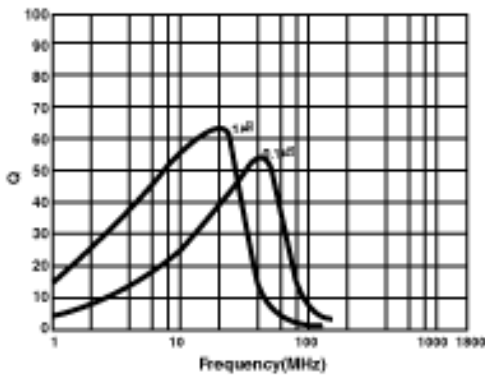
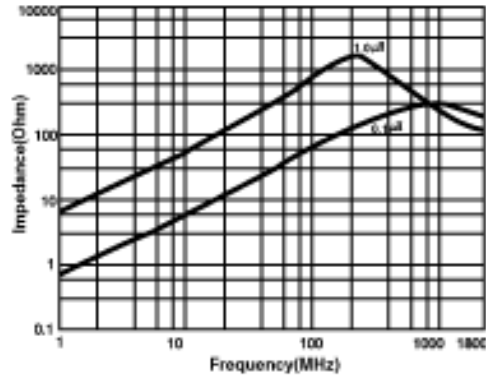
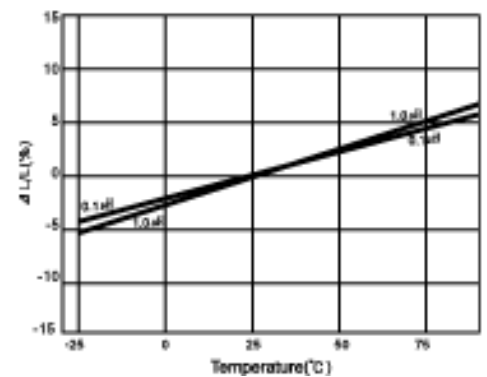
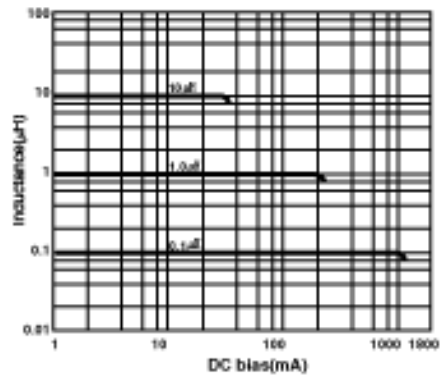
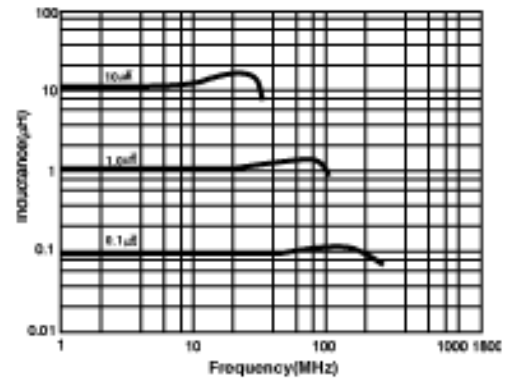
- SRF : Self-Resonant Frequency

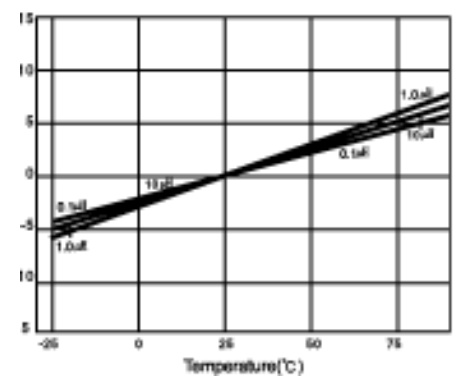
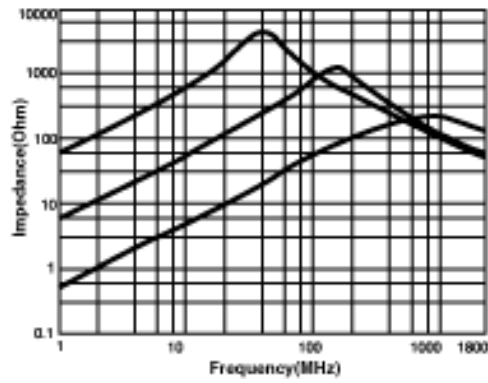
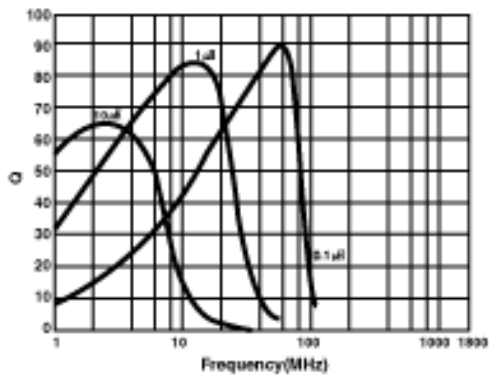
- DCR : DC Resistance

- Test equipment : HP4191A + HP16092A



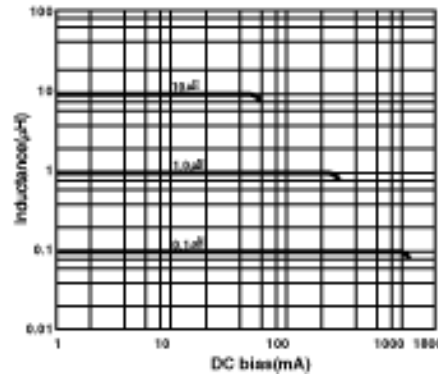
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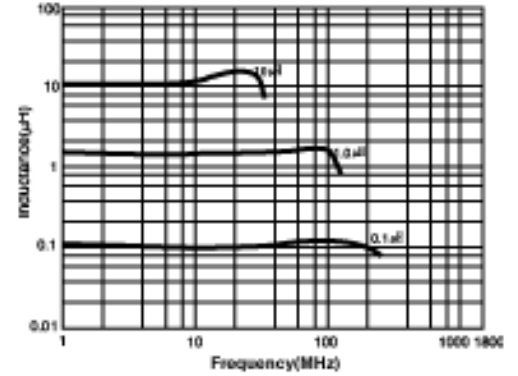


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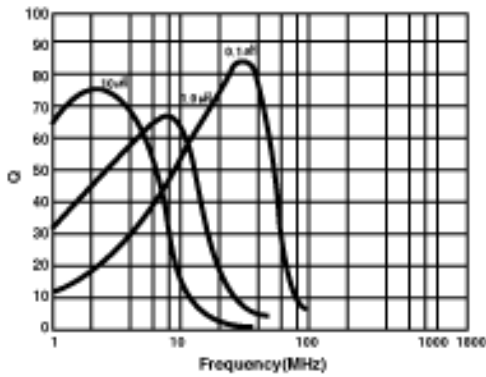
DC bias characteristics



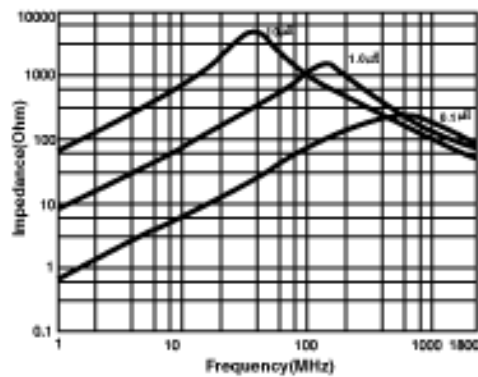
Inductance characteristics



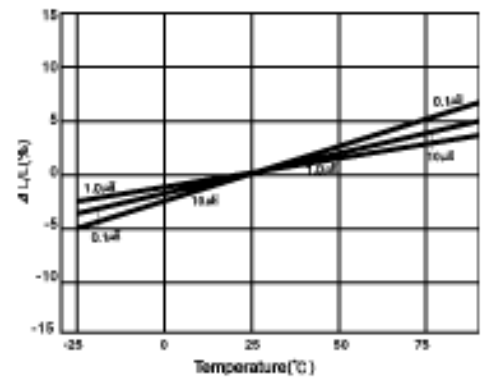
Q characteristics



Impedance characteristics



Temperature characteristics



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