CERATECH CORPORATION

CHIP FERRITE INDUCTORS

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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 Compliant)
5. Halogen Free (IPC4101B Compliant)

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

FI	-	A	1608	-680	K	J	T
(1)		(2)	(3)	(4)	(5)	(6)	(7)

(1) Series

(2) Material & Design

(3) Dimensions
First two digits : length(mm)
Last two digits : width(mm)

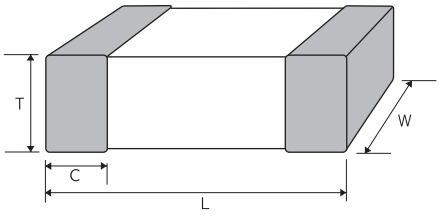
(4) Inductance
First two digits are inductance values.
Last digit is the number of zero.

(5) Tolerance
K : ± 10%
M : ± 20%.

(6) Termination
J : Nickel barrier

(7) Packaging
B : Bulk Package
T : Tape & Reel (ø 178mm [7 inches])
L : Tape & Reel (ø 254mm [10 inches])

Shape and Dimensions



unit : mm [inches]

Type	L	W	T	C
FI-□1005-	1.0±0.05 [.039±.002]	0.5±0.05 [.020±.002]	0.5±0.05 [.020±.002]	0.20±0.10 [.008±.004]
FI-□1608-	1.6±0.15 [.063±.006]	0.8±0.15 [.031±.006]	0.8±0.15 [.031±.006]	0.30±0.20 [.012±.008]
FI-□2012-	2.0±0.2 [.079±.008]	1.25±0.2 [.049±.008]	0.85±0.2 [.033±.008]	0.50±0.30 [.020±.012]
	2.0±0.2 [.079±.008]	1.25±0.2 [.049±.008]	1.25±0.2 [.049±.008]	0.50±0.30 [.020±.012]
FI-□3216-	3.2±0.2 [.126±.008]	1.6±0.2 [.063±.008]	1.3±0.2 [.051±.008]	0.50±0.30 [.020±.012]

FI3216

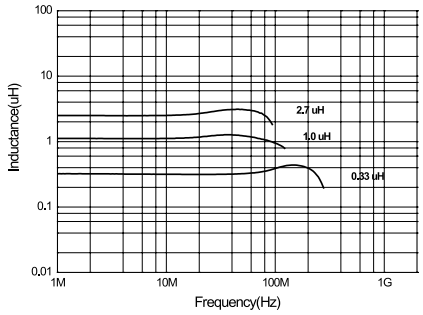
Part No.	Inductance		Q		L,Q test frequency (MHz)	SRF(MHz)		DCR(mΩ)		Rated Current (mA) max.
	μH	Tolerance	min.	typ.		min.	typ.	max.	typ.	
FI-A3216-470□□□	0.047	±10% ±20%	20	60	50	320	400	150	80	300
FI-A3216-560□□□	0.056		20	60	50	300	360	150	80	300
FI-A3216-680□□□	0.068		20	60	50	280	330	150	100	300
FI-A3216-820□□□	0.082		20	60	50	255	300	150	100	300
FI-A3216-101□□□	0.10		25	50	25	235	280	200	100	250
FI-A3216-121□□□	0.12		25	50	25	220	260	200	100	250
FI-A3216-151□□□	0.15		25	50	25	200	240	200	100	250
FI-A3216-181□□□	0.18		25	50	25	185	220	200	100	250
FI-A3216-221□□□	0.22		25	50	25	170	200	250	120	250
FI-A3216-271□□□	0.27		25	50	25	150	180	250	120	250
FI-A3216-331□□□	0.33		25	50	25	145	170	300	130	250
FI-A3216-391□□□	0.39		30	50	25	135	160	300	150	200
FI-A3216-471□□□	0.47		30	50	25	125	145	300	150	200
FI-A3216-561□□□	0.56		30	50	25	115	135	350	170	150
FI-A3216-681□□□	0.68		30	50	25	105	125	350	250	150
FI-A3216-821□□□	0.82		30	50	25	100	115	400	300	150
FI-B3216-102□□□	1.0		45	80	10	75	90	250	130	100
FI-B3216-122□□□	1.2		45	80	10	65	80	300	150	100
FI-B3216-152□□□	1.5		45	80	10	60	70	300	170	100
FI-B3216-182□□□	1.8		45	80	10	55	66	500	250	100
FI-B3216-222□□□	2.2		45	80	10	50	58	600	300	50
FI-B3216-272□□□	2.7		45	80	10	45	53	600	300	50
FI-B3216-332□□□	3.3		45	85	10	41	49	700	350	50
FI-B3216-392□□□	3.9		45	85	10	38	45	800	400	50
FI-B3216-472□□□	4.7		45	85	10	35	41	800	400	50
FI-C3216-562□□□	5.6		50	65	4	32	38	600	300	50
FI-C3216-682□□□	6.8		50	65	4	29	34	600	300	50
FI-C3216-822□□□	8.2		50	65	4	26	31	600	330	50
FI-C3216-103□□□	10.0		50	65	2	24	28	700	380	50
FI-C3216-123□□□	12.0		50	65	2	22	26	900	450	25
FI-C3216-153□□□	15.0		35	45	1	19	23	1100	550	25
FI-C3216-183□□□	18.0		35	45	1	18	21	1500	800	25
FI-C3216-223□□□	22.0		35	45	1	16	19	1500	800	25
FI-C3216-273□□□	27.0		35	45	1	14	17	1500	800	25
FI-C3216-333□□□	33.0		35	45	0.4	13	16	1600	850	25
FI-C3216-473□□□	47.0		35	45	0.4	10	14	2500	1800	25

· SRF : Self-Resonant Frequency. · DCR : DC Resistance ※ Test equipment : HP4291 + HP16192A
: HP4285 + HP16334A

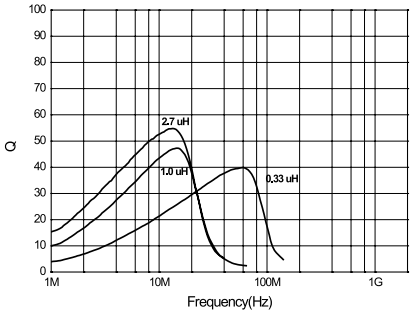
Electrical Characteristics

NEW 1005

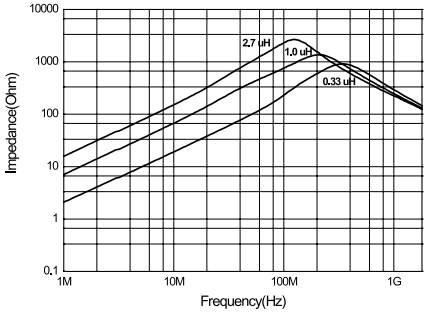
Inductance characteristics



Q characteristics

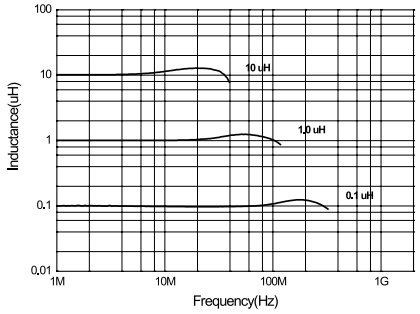


Impedance characteristics

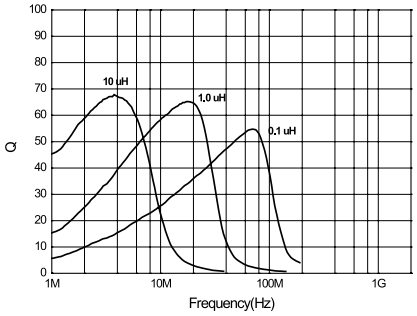


1608

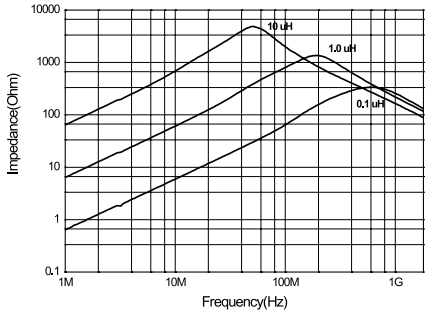
Inductance characteristics



Q characteristics

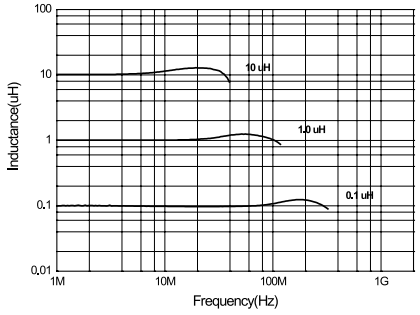


Impedance characteristics

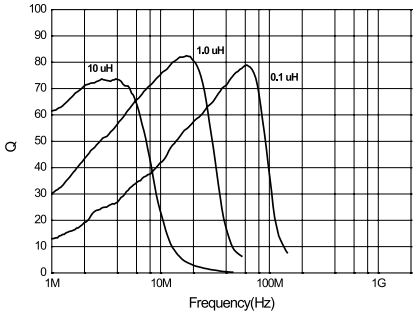


2012

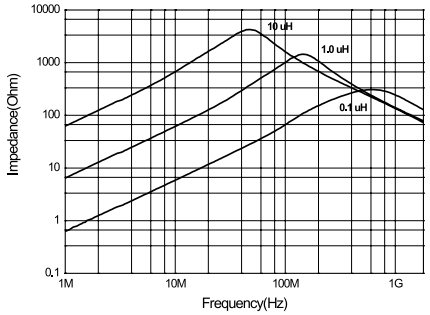
Inductance characteristics



Q characteristics

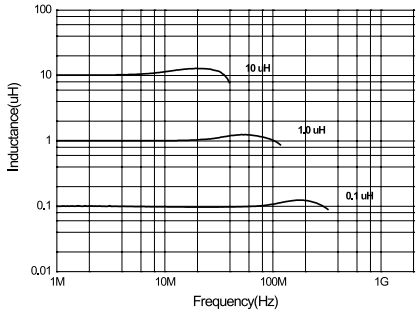


Impedance characteristics

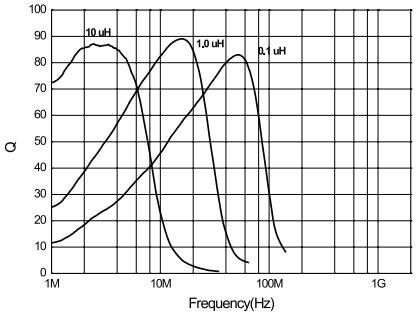


3216

Inductance characteristics



Q characteristics



Impedance characteristics