MULTILAYER CHIP INDUCTOR MCI SERIES

COMPONENT

PRODUCT IDENTIFICATION

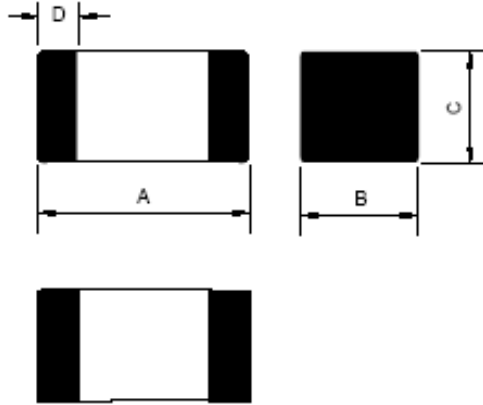| MCIN	3216	-	1R0	K
A	B		C	D

A： FERRITE CHIP INDUCTOR

B： SIZE 3.2mm * 1.6mm

C： INDUCTANCE CODE

D： TOLERANCE(J:±5% K:±10% L:±15% M:±20%)

APPLICATIONS

Noise elimination for I/O lines of notebook PCs, digital TVs and VTRs, Printers, hard disk drives, personal computers and general consumer and computers products.

SHAPES & DIMENSIONS

TYPE	A(mm)	B(mm)	C(mm)	D(mm)
MCIN1608	1.6±0.15	0.18±0.15	0.8±0.15	0.3±0.2
MCIN2012	2.0±0.2	1.25±0.2	0.85±0.2	0.5±0.3
			1.25±0.2	
MCIN3216	3.2±0.2	1.6±0.2	1.1±0.2	0.5±0.3

MULTILAYER CHIP INDUCTOR MCI SERIES

COMPONENT
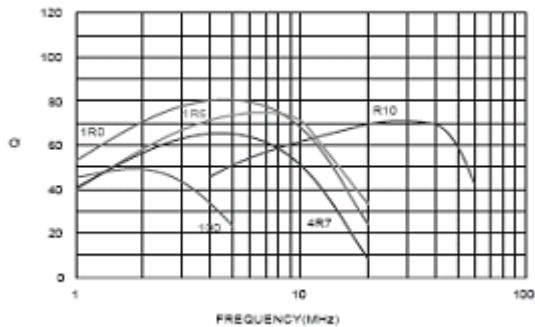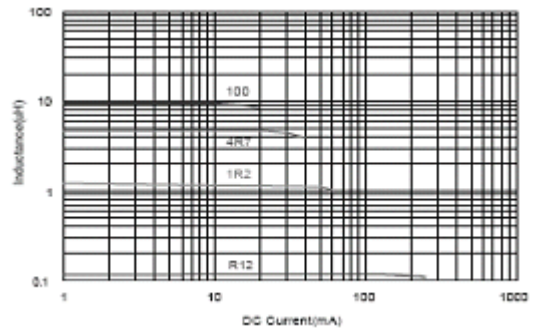
ELECTRICAL CHARACTERISTICS

MCIN1608 SERIES

Inductance		Thickness C size (mm)	Q Min.	Test Freq. (MHz)	SRF (MHz) Min.	RDC (Ω) Max.	IDC (mA) Max.
Code	(uH)						
47N☐	0.047	0.8±0.15	10	50	260	0.30	50
68N☐	0.068	0.8±0.15	10	50	250	0.30	50
82N☐	0.082	0.8±0.15	10	50	245	0.30	50
R10☐	0.10	0.8±0.15	15	25	240	0.50	50
R12☐	0.12	0.8±0.15	15	25	205	0.50	50
R15☐	0.15	0.8±0.15	15	25	180	0.60	50
R18☐	0.18	0.8±0.15	15	25	165	0.60	50
R22☐	0.22	0.8±0.15	15	25	150	0.80	50
R27☐	0.27	0.8±0.15	15	25	136	0.80	50
R33☐	0.33	0.8±0.15	15	25	125	0.85	35
R39☐	0.39	0.8±0.15	15	25	110	1.00	35
R47☐	0.47	0.8±0.15	15	25	105	1.35	35
R56☐	0.56	0.8±0.15	15	25	95	1.55	35
R68☐	0.68	0.8±0.15	15	25	80	1.70	35
R82☐	0.82	0.8±0.15	15	25	75	2.10	35
1R0☐	1.0	0.8±0.15	30	10	70	0.60	25
1R2☐	1.2	0.8±0.15	30	10	60	0.80	25
1R5☐	1.5	0.8±0.15	30	10	55	0.80	25
1R8☐	1.8	0.8±0.15	30	10	50	0.95	25
2R2☐	2.2	0.8±0.15	30	10	45	1.15	15
2R7☐	2.7	0.8±0.15	30	10	40	1.35	15
3R3☐	3.3	0.8±0.15	30	10	38	1.55	15
3R9☐	3.9	0.8±0.15	30	10	36	1.70	15
4R7☐	4.7	0.8±0.15	30	10	33	2.10	15
5R6☐	5.6	0.8±0.15	30	4	22	1.55	15
6R8☐	6.8	0.8±0.15	30	4	20	1.70	15
8R2☐	8.2	0.8±0.15	30	4	18	2.10	15
100☐	10.0	0.8±0.15	30	2	17	2.55	15

MCIN1608-Series Q vs. Freq.

MCIN1608-Series L vs. IDC.
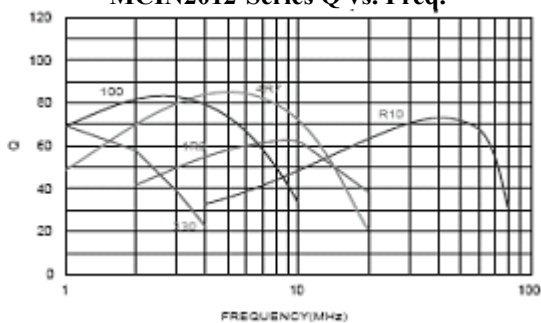
MULTILAYER CHIP INDUCTOR MCI SERIES

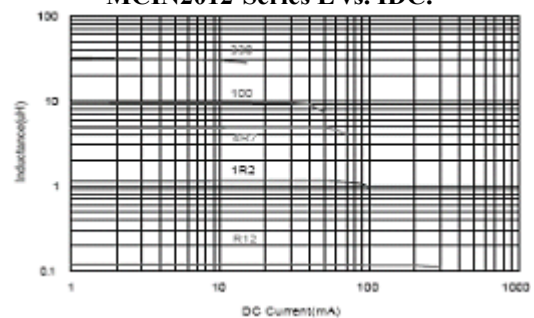COMPONENT

ELECTRICAL CHARACTERISTICS

MCIN2012 SERIES

Inductance		Thickness C size (mm)	Q Min.	Test Freq. (MHz)	SRF (MHz) Min.	RDC (Ω) Max.	IDC (mA) Max.
Code	(uH)						
47N☐	0.047	0.85±0.2	15	50	320	0.20	300
68N☐	0.068	0.85±0.2	15	50	280	0.20	300
82N☐	0.082	0.85±0.2	15	50	255	0.20	300
R10☐	0.10	0.85±0.2	20	25	235	0.30	250
R12☐	0.12	0.85±0.2	20	25	220	0.30	250
R15☐	0.15	0.85±0.2	20	25	200	0.40	250
R18☐	0.18	0.85±0.2	20	25	185	0.40	250
R22☐	0.22	0.85±0.2	20	25	170	0.50	250
R27☐	0.27	0.85±0.2	20	25	150	0.50	250
R33☐	0.33	0.85±0.2	20	25	145	0.55	250
R39☐	0.39	0.85±0.2	25	25	135	0.65	200
R47☐	0.47	1.25±0.2	25	25	125	0.65	200
R56☐	0.56	1.25±0.2	25	25	115	0.75	150
R68☐	0.68	1.25±0.2	25	25	105	0.80	150
R82☐	0.82	1.25±0.2	25	25	100	1.00	150
1R0☐	1.0	0.85±0.2	45	10	75	0.40	50
1R2☐	1.2	0.85±0.2	45	10	65	0.50	50
1R5☐	1.5	0.85±0.2	45	10	60	0.50	50
1R8☐	1.8	0.85±0.2	45	10	55	0.60	50
2R2☐	2.2	0.85±0.2	45	10	50	0.65	30
2R7☐	2.7	1.25±0.2	45	10	45	0.75	30
3R3☐	3.3	1.25±0.2	45	10	41	0.80	30
3R9☐	3.9	1.25±0.2	45	10	38	0.90	30
4R7☐	4.7	1.25±0.2	45	10	35	1.00	30
5R6☐	5.6	1.25±0.2	45	4	32	0.90	15
6R8☐	6.8	1.25±0.2	45	4	29	1.00	15
8R2☐	8.2	1.25±0.2	45	4	26	1.10	15
100☐	10.0	1.25±0.2	45	2	24	1.15	15
120☐	12.0	1.25±0.2	45	2	22	1.25	15
150☐	15.0	1.25±0.2	30	1	19	0.80	5
180☐	18.0	1.25±0.2	30	1	18	0.90	5
220☐	22.0	1.25±0.2	30	1	16	1.10	5
270☐	27.0	1.25±0.2	30	1	14	1.15	5
330☐	33.0	1.25±0.2	30	0.4	13	1.25	5

MCIN2012-Series Q vs. Freq.

MCIN2012-Series L vs. IDC.

MULTILAYER CHIP INDUCTOR MCI SERIES

COMPONENT
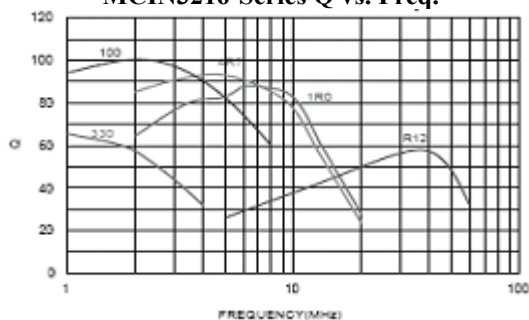
ELECTRICAL CHARACTERISTICS

MCIN3216 SERIES

Inductance		Thickness C size (mm)	Q Min.	Test Freq. (MHz)	SRF (MHz) Min.	RDC (Ω) Max.	IDC (mA) Max.
Code	(uH)						
47N☐	0.047	1.1±0.3	20	50	320	0.15	300
68N☐	0.068	1.1±0.3	20	50	280	0.25	300
82N☐	0.082	1.1±0.3	20	50	260	0.25	300
R10☐	0.10	1.1±0.3	20	25	235	0.25	250
R12☐	0.12	1.1±0.3	20	25	220	0.30	250
R15☐	0.15	1.1±0.3	20	25	200	0.30	250
R18☐	0.18	1.1±0.3	20	25	185	0.40	250
R22☐	0.22	1.1±0.3	20	25	170	0.40	250
R27☐	0.27	1.1±0.3	20	25	150	0.50	250
R33☐	0.33	1.1±0.3	20	25	145	0.50	250
R39☐	0.39	1.1±0.3	25	25	135	0.60	250
R47☐	0.47	1.1±0.3	25	25	125	0.60	200
R56☐	0.56	1.1±0.3	25	25	115	0.70	200
R68☐	0.68	1.1±0.3	25	25	105	0.80	150
R82☐	0.82	1.1±0.3	25	25	100	0.90	150
1R0☐	1.0	1.1±0.3	45	10	75	0.40	100
1R2☐	1.2	1.1±0.3	45	10	65	0.50	100
1R5☐	1.5	1.1±0.3	45	10	60	0.50	50
1R8☐	1.8	1.1±0.3	45	10	55	0.50	50
2R2☐	2.2	1.1±0.3	45	10	50	0.60	50
2R7☐	2.7	1.1±0.3	45	10	45	0.60	50
3R3☐	3.3	1.1±0.3	45	10	41	0.70	50
3R9☐	3.9	1.1±0.3	45	10	38	0.80	50
4R7☐	4.7	1.1±0.3	45	10	35	0.90	50
5R6☐	5.6	1.1±0.3	50	4	32	0.70	25
6R8☐	6.8	1.1±0.3	50	4	29	0.8	25
8R2☐	8.2	1.1±0.3	50	4	26	0.9	25
100☐	10.0	1.1±0.3	50	2	24	1.00	25
120☐	12.0	1.1±0.3	50	2	22	1.05	15
150☐	15.0	1.1±0.3	35	1	19	0.70	5
180☐	18.0	1.1±0.3	35	1	18	0.70	5
220☐	22.0	1.1±0.3	35	1	16	0.90	5
270☐	27.0	1.1±0.3	35	1	14	0.90	5
330☐	33.0	1.1±0.3	35	0.4	13	1.05	5

MCIN3216-Series Q vs. Freq.

MCIN3216-Series L vs. IDC.