

Features

- Monolithic inorganic material construction
- Closed magnetic circuit avoids crosstalk
- Suitable for flow and eflow soldering.
- High reliability

General Specifications

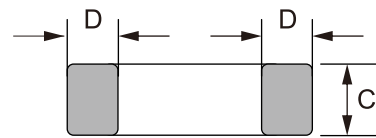
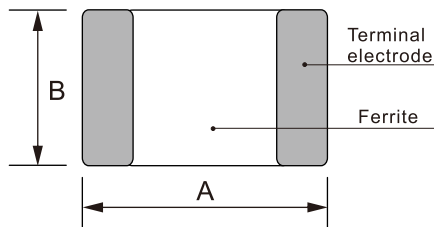
- Operating temp range: -55°C to +125°C
- Storage temp range: -40°C to +85°C

Applications

- Global Positioning Systems
- Network Systems
- Computer Products
- Mobil Radios
- Cordless Telephones



► Dimensions & Configurations (Unit:mm)



Type	A	B	C	D
MC1608(0603)	1.6±0.15	0.8±0.15	0.8±0.15	0.3±0.2
MC2012(0805)	2.0(+0.3-0.1)	1.25±0.2	0.85±0.2 / 1.25±0.2	0.5±0.3
MC3216(1206)	3.2±0.2	1.6±0.2	0.85±0.2 / 1.1±0.2	0.5±0.3
MC3225(1210)	3.2±0.2	2.5±0.2	1.3±0.3	0.8±0.2

► Electrical Characteristics For MC1608 Series

Part Number	Inductance [uH]	Q (min)	Test Freq L,Q [MHz]	SRF(min) [MHz]	DCR(max) [Ω]	IDC(max) [mA]	Thickness [mm]
MC1608-47NM	0.047±20%	10	50	260	0.30	50	0.8±0.15
MC1608-68NM	0.068±20%	10	50	250	0.30	50	0.8±0.15
MC1608-82NM	0.082±20%	10	50	245	0.30	50	0.8±0.15
MC1608-R10K	0.10±10%	15	25	240	0.50	50	0.8±0.15
MC1608-R12K	0.12±10%	15	25	205	0.50	50	0.8±0.15
MC1608-R15K	0.15±10%	15	25	180	0.60	50	0.8±0.15
MC1608-R18K	0.18±10%	15	25	165	0.60	50	0.8±0.15
MC1608-R22K	0.22±10%	15	25	150	0.80	50	0.8±0.15
MC1608-R27K	0.27±10%	15	25	136	0.80	50	0.8±0.15
MC1608-R33K	0.33±10%	15	25	125	0.85	35	0.8±0.15
MC1608-R39K	0.39±10%	15	25	110	1.00	35	0.8±0.15
MC1608-R47K	0.47±10%	15	25	105	1.35	35	0.8±0.15
MC1608-R56K	0.56±10%	15	25	95	1.55	35	0.8±0.15
MC1608-R68K	0.68±10%	15	25	90	1.70	35	0.8±0.15
MC1608-R82K	0.82±10%	15	25	85	2.10	35	0.8±0.15
MC1608-1R0K	1.0±10%	35	10	75	0.60	25	0.8±0.15
MC1608-1R2K	1.2±10%	35	10	65	0.80	25	0.8±0.15
MC1608-1R5K	1.5±10%	35	10	60	0.80	25	0.8±0.15
MC1608-1R8K	1.8±10%	35	10	55	0.95	25	0.8±0.15
MC1608-2R2K	2.2±10%	35	10	50	1.15	15	0.8±0.15
MC1608-2R7K	2.7±10%	35	10	45	1.35	15	0.8±0.15
MC1608-3R3K	3.3±10%	35	10	40	1.55	15	0.8±0.15
MC1608-3R9K	3.9±10%	35	10	35	1.70	15	0.8±0.15
MC1608-4R7K	4.7±10%	35	10	33	2.10	15	0.8±0.15
MC1608-5R6K	5.6±10%	35	4	22	1.55	5	0.8±0.15
MC1608-6R8K	6.8±10%	35	4	20	1.70	5	0.8±0.15
MC1608-8R2K	8.2±10%	35	4	18	2.10	5	0.8±0.15
MC1608-100K	10±10%	30	2	17	1.85	3	0.8±0.15
MC1608-120K	12±10%	30	2	15	2.10	3	0.8±0.15
MC1608-150K	15±10%	20	1	14	1.70	1	0.8±0.15

► Electrical Characteristics For MC2012 Series

Part Number	Inductance [uH]	Q (min)	Test Freq L,Q [MHz]	SRF(min) [MHz]	DCR(max) [Ω]	IDC(max) [mA]	Thickness [mm]
MC2012-47NM	0.047±20%	15	50	320	0.20	300	0.85±0.2
MC2012-68NM	0.068±20%	15	50	280	0.20	300	0.85±0.2
MC2012-82NM	0.082±20%	15	50	255	0.20	300	0.85±0.2
MC2012-R10K	0.10±10%	20	25	235	0.30	250	0.85±0.2
MC2012-R12K	0.12±10%	20	25	220	0.30	250	0.85±0.2
MC2012-R15K	0.15±10%	20	25	200	0.40	250	0.85±0.2
MC2012-R18K	0.18±10%	20	25	185	0.40	250	0.85±0.2
MC2012-R22K	0.22±10%	20	25	170	0.50	250	0.85±0.2
MC2012-R27K	0.27±10%	20	25	150	0.50	250	0.85±0.2
MC2012-R33K	0.33±10%	20	25	145	0.55	250	0.85±0.2
MC2012-R39K	0.39±10%	25	25	135	0.65	200	0.85±0.2
MC2012-R47K	0.47±10%	25	25	125	0.65	200	0.85±0.2
MC2012-R56K	0.56±10%	25	25	115	0.75	150	0.85±0.2
MC2012-R68K	0.68±10%	25	25	105	0.80	150	0.85±0.2
MC2012-R82K	0.82±10%	25	25	100	1.00	150	0.85±0.2
MC2012-1R0K	1.0±10%	45	10	75	0.40	50	0.85±0.2
MC2012-1R2K	1.2±10%	45	10	65	0.50	50	0.85±0.2
MC2012-1R5K	1.5±10%	45	10	60	0.50	50	0.85±0.2
MC2012-1R8K	1.8±10%	45	10	55	0.60	50	0.85±0.2
MC2012-2R2K	2.2±10%	45	10	50	0.65	30	0.85±0.2
MC2012-2R7K	2.7±10%	45	10	45	0.75	30	1.25±0.2
MC2012-3R3K	3.3±10%	45	10	41	0.80	30	1.25±0.2
MC2012-3R9K	3.9±10%	45	10	38	0.90	30	1.25±0.2
MC2012-4R7K	4.7±10%	45	10	35	1.00	30	1.25±0.2
MC2012-5R6K	5.6±10%	50	4	32	0.90	15	1.25±0.2
MC2012-6R8K	6.8±10%	50	4	29	1.00	15	1.25±0.2
MC2012-8R2K	8.2±10%	50	4	26	1.10	15	1.25±0.2
MC2012-100K	10±10%	50	2	24	1.15	15	1.25±0.2
MC2012-120K	12±10%	50	2	22	1.25	15	1.25±0.2
MC2012-150K	15±10%	30	1	19	0.80	5	1.25±0.2
MC2012-180K	18±10%	30	1	18	0.90	5	1.25±0.2
MC2012-220K	22±10%	30	1	16	1.10	5	1.25±0.2
MC2012-270K	27±10%	30	1	14	1.15	5	1.25±0.2
MC2012-330K	33±10%	30	1	13	1.25	5	1.25±0.2
MC2012-390K	39±10%	35	1	8	2.90	4	1.25±0.2

► Electrical Characteristics For MC3216 Series

Part Number	Inductance [uH]	Q (min)	Test Freq L,Q [MHz]	SRF(min) [MHz]	DCR(max) [Ω]	IDC(max) [mA]	Thickness [mm]
MC3216-47NM	0.047±20%	20	50	320	0.15	300	1.1±0.3
MC3216-68NM	0.068±20%	20	50	280	0.25	300	1.1±0.3
MC3216-82NM	0.082±20%	20	50	255	0.25	300	1.1±0.3
MC3216-R10K	0.10±10%	20	25	235	0.25	250	1.1±0.3
MC3216-R12K	0.12±10%	20	25	220	0.30	250	1.1±0.3
MC3216-R15K	0.15±10%	20	25	200	0.30	250	1.1±0.3
MC3216-R18K	0.18±10%	20	25	185	0.40	250	1.1±0.3
MC3216-R22K	0.22±10%	20	25	170	0.40	250	1.1±0.3
MC3216-R27K	0.27±10%	20	25	150	0.50	250	1.1±0.3
MC3216-R33K	0.33±10%	20	25	145	0.60	250	1.1±0.3
MC3216-R39K	0.39±10%	25	25	135	0.50	250	1.1±0.3
MC3216-R47K	0.47±10%	25	25	125	0.60	200	1.1±0.3
MC3216-R56K	0.56±10%	25	25	115	0.70	200	1.1±0.3
MC3216-R68K	0.68±10%	25	25	105	0.80	150	1.1±0.3
MC3216-R82K	0.82±10%	25	25	100	0.90	150	1.1±0.3
MC3216-1R0K	1.0±10%	45	10	75	0.40	100	1.1±0.3
MC3216-1R2K	1.2±10%	45	10	65	0.50	100	1.1±0.3
MC3216-1R5K	1.5±10%	45	10	60	0.50	50	1.1±0.3
MC3216-1R8K	1.8±10%	45	10	55	0.50	50	1.1±0.3
MC3216-2R2K	2.2±10%	45	10	50	0.60	50	1.1±0.3
MC3216-2R7K	2.7±10%	45	10	45	0.60	50	1.1±0.3
MC3216-3R3K	3.3±10%	45	10	41	0.70	50	1.1±0.3
MC3216-3R9K	3.9±10%	45	10	38	0.80	50	1.1±0.3
MC3216-4R7K	4.7±10%	45	10	35	0.90	50	1.1±0.3
MC3216-5R6K	5.6±10%	50	4	32	0.70	25	1.1±0.3
MC3216-6R8K	6.8±10%	50	4	29	0.80	25	1.1±0.3
MC3216-8R2K	8.2±10%	50	4	26	0.90	25	1.1±0.3
MC3216-100K	10±10%	50	2	24	1.00	25	1.1±0.3
MC3216-120K	12±10%	50	2	22	1.05	15	1.1±0.3
MC3216-150K	15±10%	35	1	19	0.70	5	1.1±0.3
MC3216-180K	18±10%	35	1	18	0.70	5	1.1±0.3
MC3216-220K	22±10%	35	1	16	0.90	5	1.1±0.3
MC3216-270K	27±10%	35	1	14	0.90	5	1.1±0.3
MC3216-330K	33±10%	35	1	13	1.05	5	1.1±0.3
MC3216-390K	39±10%	40	2	11	3.00	10	1.6±0.3
MC3216-470K	47±10%	40	2	10	3.40	10	1.6±0.3

► Electrical Characteristics For MC3225 Series

Part Number	Inductance [uH]	Q (min)	Test Freq L,Q [MHz]	SRF(min) [MHz]	DCR(max) [Ω]	IDC(max) [mA]	Thickness [mm]
MC3225-R10K	0.10±10%	20	25	235	0.25	250	1.3±0.3
MC3225-R12K	0.12±10%	20	25	220	0.30	250	1.3±0.3
MC3225-R15K	0.15±10%	20	25	200	0.30	250	1.3±0.3
MC3225-R18K	0.18±10%	20	25	185	0.40	250	1.3±0.3
MC3225-R22K	0.22±10%	20	25	170	0.40	250	1.3±0.3
MC3225-R27K	0.27±10%	20	25	150	0.50	250	1.3±0.3
MC3225-R33K	0.33±10%	20	25	145	0.60	250	1.3±0.3
MC3225-R39K	0.39±10%	25	25	135	0.50	200	1.3±0.3
MC3225-R47K	0.47±10%	25	25	125	0.60	200	1.3±0.3
MC3225-R56K	0.56±10%	25	25	115	0.70	150	1.3±0.3
MC3225-R68K	0.68±10%	25	25	105	0.80	150	1.3±0.3
MC3225-R82K	0.82±10%	25	25	100	0.90	150	1.3±0.3
MC3225-1R0K	1.0±10%	45	10	75	0.40	100	1.3±0.3
MC3225-1R2K	1.2±10%	45	10	65	0.50	100	1.3±0.3
MC3225-1R5K	1.5±10%	45	10	60	0.50	50	1.3±0.3
MC3225-1R8K	1.8±10%	45	10	55	0.50	50	1.3±0.3
MC3225-2R2K	2.2±10%	45	10	50	0.60	50	1.3±0.3
MC3225-2R7K	2.7±10%	45	10	45	0.60	50	1.3±0.3
MC3225-3R3K	3.3±10%	45	10	41	0.70	50	1.3±0.3
MC3225-3R9K	3.9±10%	45	10	38	0.80	50	1.3±0.3
MC3225-4R7K	4.7±10%	45	10	35	0.90	50	1.3±0.3
MC3225-5R6K	5.6±10%	50	4	32	0.70	25	1.3±0.3
MC3225-6R8K	6.8±10%	50	4	29	0.80	25	1.3±0.3
MC3225-8R2K	8.2±10%	50	4	26	0.90	25	1.3±0.3
MC3225-100K	10±10%	50	2	24	1.00	25	1.3±0.3
MC3225-120K	12±10%	50	2	22	1.05	15	1.3±0.3
MC3225-150K	15±10%	35	1	19	0.70	5	1.3±0.3
MC3225-180K	18±10%	35	1	18	0.70	5	1.3±0.3
MC3225-220K	22±10%	35	1	16	0.90	5	1.3±0.3
MC3225-270K	27±10%	35	1	14	0.90	5	1.3±0.3
MC3225-330K	33±10%	35	0.4	13	1.05	5	1.3±0.3
MC3225-390K	39±10%	40	2	11	3.00	10	1.3±0.3
MC3225-470K	47±10%	40	2	10	3.40	10	1.3±0.3
MC3225-560K	56±10%	40	2	9.5	3.80	4	1.3±0.3
MC3225-680K	68±10%	40	1	9.5	3.00	4	1.3±0.3
MC3225-820K	82±10%	40	1	9	3.40	4	1.3±0.3
MC3225-101K	100±10%	40	1	8	3.80	4	2.2±0.3
MC3225-121K	120±10%	30	0.4	6	3.00	2	2.2±0.3