



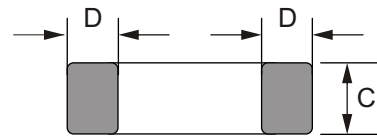
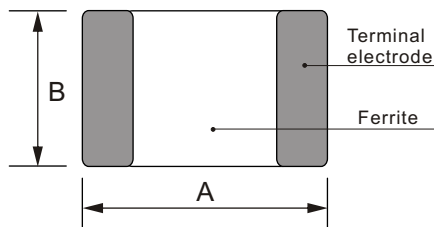
Features

- Monolithic inorganic material construction
- Closed magnetic circuit avoids crosstalk
- S.M.T. Type
- Suitable for flow and eflow soldering.
- Shapes and dimensions follow E.I.A.spec
- Available in various sizes.
- High reliability
- RoHS compliant

Applications

- Mobil Radios
- Modems
- 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 | 0.2~0.6 |
| MC2012(0805) | 2.0±0.2 | 1.25±0.2 | * | 0.2~0.8 |
| MC3216(1206) | 3.2±0.2 | 1.6±0.2 | * | 0.4~1.0 |
| MC3225(1210) | 3.2±0.2 | 2.5±0.2 | * | 0.6~1.0 |
| MC4532(1812) | 4.5±0.2 | 3.2±0.2 | * | 0.6~1.0 |

► 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 |

▶ Electrical Characteristics For MC4532 Series

| Part Number | Inductance [uH] | Q (min) | Test Freq L,Q [MHz] | SRF(min) [MHz] | DCR(max) [Ω] | IDC(max) [mA] | Thickness [mm] |
|-------------|-----------------|---------|---------------------|----------------|--------------|---------------|----------------|
| MC4532-1R0K | 1.0±10% | 35 | 10 | 75 | 0.40 | 100 | 1.5±0.3 |
| MC4532-1R2K | 1.2±10% | 35 | 10 | 65 | 0.50 | 100 | 1.5±0.3 |
| MC4532-1R5K | 1.5±10% | 35 | 10 | 60 | 0.50 | 50 | 1.5±0.3 |
| MC4532-1R8K | 1.8±10% | 35 | 10 | 55 | 0.50 | 50 | 1.5±0.3 |
| MC4532-2R2K | 2.2±10% | 35 | 10 | 50 | 0.60 | 50 | 1.5±0.3 |
| MC4532-2R7K | 2.7±10% | 35 | 10 | 45 | 0.60 | 50 | 1.5±0.3 |
| MC4532-3R3K | 3.3±10% | 35 | 10 | 41 | 0.70 | 50 | 1.5±0.3 |
| MC4532-3R9K | 3.9±10% | 35 | 10 | 38 | 0.80 | 50 | 1.5±0.3 |
| MC4532-4R7K | 4.7±10% | 35 | 10 | 35 | 0.90 | 50 | 1.5±0.3 |
| MC4532-5R6K | 5.6±10% | 40 | 4 | 32 | 0.70 | 25 | 1.5±0.3 |
| MC4532-6R8K | 6.8±10% | 40 | 4 | 29 | 0.70 | 25 | 1.5±0.3 |
| MC4532-8R2K | 8.2±10% | 40 | 4 | 26 | 0.90 | 25 | 1.5±0.3 |
| MC4532-100K | 10±10% | 40 | 2 | 24 | 1.00 | 25 | 1.5±0.3 |
| MC4532-120K | 12±10% | 40 | 2 | 22 | 1.05 | 15 | 1.5±0.3 |
| MC4532-150K | 15±10% | 35 | 1 | 19 | 0.70 | 5 | 1.5±0.3 |
| MC4532-180K | 18±10% | 35 | 1 | 18 | 0.70 | 5 | 1.5±0.3 |
| MC4532-220K | 22±10% | 35 | 1 | 16 | 0.90 | 5 | 1.5±0.3 |
| MC4532-270K | 27±10% | 35 | 1 | 14 | 0.90 | 5 | 1.5±0.3 |
| MC4532-330K | 33±10% | 35 | 0.4 | 13 | 1.05 | 5 | 1.5±0.3 |
| MC4532-390K | 39±10% | 40 | 2 | 11 | 3.00 | 10 | 1.5±0.3 |
| MC4532-470K | 47±10% | 40 | 2 | 10 | 3.40 | 10 | 1.5±0.3 |
| MC4532-560K | 56±10% | 40 | 2 | 9.5 | 3.80 | 5 | 1.5±0.3 |
| MC4532-680K | 68±10% | 40 | 1 | 9.5 | 3.00 | 5 | 1.5±0.3 |
| MC4532-820K | 82±10% | 40 | 1 | 9 | 3.40 | 5 | 1.5±0.3 |
| MC4532-101K | 100±10% | 40 | 1 | 8 | 3.80 | 5 | 1.5±0.3 |
| MC4532-121K | 120±10% | 30 | 0.4 | 6 | 3.00 | 3 | 1.5±0.3 |
| MC4532-151K | 150±10% | 30 | 0.4 | 5.5 | 3.40 | 3 | 2.2±0.3 |
| MC4532-181K | 180±10% | 30 | 0.4 | 5 | 3.80 | 3 | 2.2±0.3 |
| MC4532-221K | 220±10% | 30 | 0.4 | 4.5 | 4.20 | 3 | 2.2±0.3 |