# Surface-Mount Molded Wire Wound Chip Inductors

Meisongbei



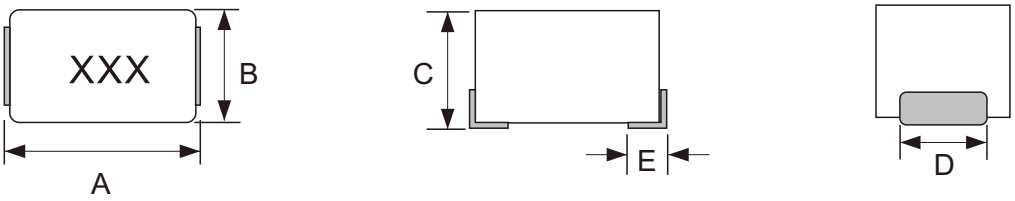

**Features**
- High resistance to heat and humidity
- Resistance to mechanical shocks and pressure

**Applications**
- Global Positioning Systems
- Network Systems
- Computer Products
- Cordless Telephones

**General Specifications**
- Storage temp range: -40°C to +85°C
- Operating temp range: -40°C to +85°C

RoHS COMPLIANT | REACH COMPLIANT | Halogen Free

## Dimensions & Configurations (Unit:mm)




| Type | A ±0.2 | B ±0.2 | C±0.2 | D ±0.2 | E ±0.2 |
|---|---|---|---|---|---|
| MW1210 (322522) | 3.2 | 2.5 | 2.2 | 1.0 | 0.6 |
| MW1812 (453232) | 4.5 | 3.2 | 3.2 | 1.2 | 1.0 |

Package: MW1210: 2000PCS/Reel, MW1812: 500PCS/Reel

## Product Identification

| MW | 1210 | - | 1R0 | J |
|---|---|---|---|---|
| (1) | (2) | | (3) | (4) |

(1) Series Name

(2) Product Dimensions (L*W Inch)

(3) Inductance Value (R15:0.15uH / 1R0: 1.0uH / 101: 100uH)

(4) Inductance Tolerance: M:±20%, K:±10%, J:±5%

# Surface-Mount Molded Wire Wound Chip Inductors

Meisongbei

## Electrical Characteristics For MW1210 Series

| Part Number | Inductance [uH] | Tolerance | Q (min) | DCR (max) [Ω] | IDC (max) [mA] | SRF (min) [MHz] | Test Freq [MHz] |
|---|---|---|---|---|---|---|---|
| MW1210-R15☐ | 0.15 | M | 30 | 0.25 | 450 | 450 | 25.2 |
| MW1210-R18☐ | 0.18 | M | 30 | 0.28 | 450 | 400 | 25.2 |
| MW1210-R22☐ | 0.22 | M | 30 | 0.32 | 450 | 350 | 25.2 |
| MW1210-R27☐ | 0.27 | M | 30 | 0.36 | 450 | 320 | 25.2 |
| MW1210-R33☐ | 0.33 | M | 30 | 0.40 | 450 | 300 | 25.2 |
| MW1210-R39☐ | 0.39 | M | 30 | 0.45 | 450 | 250 | 25.2 |
| MW1210-R47☐ | 0.47 | M | 30 | 0.50 | 450 | 220 | 25.2 |
| MW1210-R56☐ | 0.56 | M, K | 30 | 0.55 | 450 | 180 | 25.2 |
| MW1210-R68☐ | 0.68 | M, K | 30 | 0.60 | 450 | 160 | 25.2 |
| MW1210-R82☐ | 0.82 | M, K | 30 | 0.65 | 450 | 140 | 25.2 |
| MW1210-1R0☐ | 1.0 | K, J | 30 | 0.70 | 400 | 120 | 7.96 |
| MW1210-1R2☐ | 1.2 | K, J | 30 | 0.75 | 390 | 100 | 7.96 |
| MW1210-1R5☐ | 1.5 | K, J | 30 | 0.85 | 370 | 85 | 7.96 |
| MW1210-1R8☐ | 1.8 | K, J | 30 | 0.90 | 350 | 80 | 7.96 |
| MW1210-2R2☐ | 2.2 | K, J | 30 | 1.0 | 320 | 75 | 7.96 |
| MW1210-2R7☐ | 2.7 | K, J | 30 | 1.1 | 290 | 70 | 7.96 |
| MW1210-3R3☐ | 3.3 | K, J | 30 | 1.2 | 260 | 60 | 7.96 |
| MW1210-3R9☐ | 3.9 | K, J | 30 | 1.3 | 250 | 55 | 7.96 |
| MW1210-4R7☐ | 4.7 | K, J | 30 | 1.5 | 220 | 50 | 7.96 |
| MW1210-5R6☐ | 5.6 | K, J | 30 | 1.6 | 200 | 45 | 7.96 |
| MW1210-6R8☐ | 6.8 | K, J | 30 | 1.8 | 180 | 40 | 7.96 |
| MW1210-8R2☐ | 8.2 | K, J | 30 | 2.0 | 170 | 35 | 7.96 |
| MW1210-100☐ | 10 | K, J | 30 | 2.1 | 150 | 30 | 2.52 |
| MW1210-120☐ | 12 | K, J | 30 | 2.5 | 140 | 20 | 2.52 |
| MW1210-150☐ | 15 | K, J | 30 | 2.8 | 130 | 20 | 2.52 |
| MW1210-180☐ | 18 | K, J | 30 | 3.3 | 120 | 20 | 2.52 |
| MW1210-220☐ | 22 | K, J | 30 | 3.7 | 110 | 20 | 2.52 |
| MW1210-270☐ | 27 | K, J | 30 | 5.0 | 80 | 20 | 2.52 |
| MW1210-330☐ | 33 | K, J | 30 | 5.6 | 70 | 17 | 2.52 |
| MW1210-390☐ | 39 | K, J | 30 | 6.4 | 65 | 16 | 2.52 |
| MW1210-470☐ | 47 | K, J | 30 | 7.0 | 60 | 15 | 2.52 |
| MW1210-560☐ | 56 | K, J | 30 | 8.0 | 55 | 13 | 2.52 |
| MW1210-680☐ | 68 | K, J | 30 | 9.0 | 50 | 12 | 2.52 |
| MW1210-820☐ | 82 | K, J | 30 | 10 | 45 | 11 | 2.52 |
| MW1210-101☐ | 100 | K, J | 20 | 10 | 40 | 10 | 0.796 |
| MW1210-121☐ | 120 | K, J | 20 | 11 | 70 | 10 | 0.796 |
| MW1210-151☐ | 150 | K, J | 20 | 15 | 65 | 8 | 0.796 |
| MW1210-181☐ | 180 | K, J | 20 | 17 | 60 | 7 | 0.796 |
| MW1210-221☐ | 220 | K, J | 20 | 21 | 50 | 7 | 0.796 |

# Surface-Mount Molded Wire Wound Chip Inductors

Meisongbei

## Electrical Characteristics For MW1812 Series

| Part Number | Inductance [uH] | Tolerance | Q (min) | DCR (max) [Ω] | IDC (max) [mA] | SRF (min) [MHz] | Test Freq [MHz] |
|---|---|---|---|---|---|---|---|
| MW1812-R10☐ | 0.10 | M | 35 | 0.18 | 800 | 300 | 25.2 |
| MW1812-R12☐ | 0.12 | M | 35 | 0.20 | 770 | 280 | 25.2 |
| MW1812-R15☐ | 0.15 | M | 35 | 0.22 | 730 | 250 | 25.2 |
| MW1812-R18☐ | 0.18 | M | 35 | 0.24 | 700 | 220 | 25.2 |
| MW1812-R22☐ | 0.22 | M | 40 | 0.25 | 665 | 200 | 25.2 |
| MW1812-R27☐ | 0.27 | M | 40 | 0.26 | 635 | 180 | 25.2 |
| MW1812-R33☐ | 0.33 | M | 40 | 0.28 | 605 | 165 | 25.2 |
| MW1812-R39☐ | 0.39 | M | 40 | 0.30 | 575 | 150 | 25.2 |
| MW1812-R47☐ | 0.47 | M | 40 | 0.32 | 545 | 145 | 25.2 |
| MW1812-R56☐ | 0.56 | M, K | 40 | 0.36 | 520 | 140 | 25.2 |
| MW1812-R68☐ | 0.68 | M, K | 40 | 0.40 | 500 | 135 | 25.2 |
| MW1812-R82☐ | 0.82 | M, K | 40 | 0.45 | 475 | 130 | 25.2 |
| MW1812-1R0☐ | 1.0 | K, J | 50 | 0.50 | 450 | 100 | 7.96 |
| MW1812-1R2☐ | 1.2 | K, J | 50 | 0.55 | 430 | 80 | 7.96 |
| MW1812-1R5☐ | 1.5 | K, J | 50 | 0.60 | 410 | 70 | 7.96 |
| MW1812-1R8☐ | 1.8 | K, J | 50 | 0.65 | 390 | 60 | 7.96 |
| MW1812-2R2☐ | 2.2 | K, J | 50 | 0.70 | 380 | 55 | 7.96 |
| MW1812-2R7☐ | 2.7 | K, J | 50 | 0.75 | 370 | 50 | 7.96 |
| MW1812-3R3☐ | 3.3 | K, J | 50 | 0.80 | 355 | 45 | 7.96 |
| MW1812-3R9☐ | 3.9 | K, J | 50 | 0.90 | 330 | 40 | 7.96 |
| MW1812-4R7☐ | 4.7 | K, J | 50 | 1.0 | 315 | 35 | 7.96 |
| MW1812-5R6☐ | 5.6 | K, J | 50 | 1.1 | 300 | 33 | 7.96 |
| MW1812-6R8☐ | 6.8 | K, J | 50 | 1.2 | 285 | 27 | 7.96 |
| MW1812-8R2☐ | 8.2 | K, J | 50 | 1.4 | 270 | 25 | 7.96 |
| MW1812-100☐ | 10 | K, J | 50 | 1.6 | 250 | 20 | 2.52 |
| MW1812-120☐ | 12 | K, J | 50 | 2.0 | 225 | 18 | 2.52 |
| MW1812-150☐ | 15 | K, J | 50 | 2.5 | 200 | 17 | 2.52 |
| MW1812-180☐ | 18 | K, J | 50 | 2.8 | 190 | 15 | 2.52 |
| MW1812-220☐ | 22 | K, J | 50 | 3.2 | 180 | 13 | 2.52 |
| MW1812-270☐ | 27 | K, J | 50 | 3.6 | 170 | 12 | 2.52 |
| MW1812-330☐ | 33 | K, J | 50 | 4.0 | 160 | 11 | 2.52 |
| MW1812-390☐ | 39 | K, J | 50 | 4.5 | 150 | 10 | 2.52 |
| MW1812-470☐ | 47 | K, J | 50 | 5.0 | 140 | 10 | 2.52 |
| MW1812-560☐ | 56 | K, J | 50 | 5.5 | 135 | 9.0 | 2.52 |
| MW1812-680☐ | 68 | K, J | 50 | 6.0 | 130 | 9.0 | 2.52 |
| MW1812-820☐ | 82 | K, J | 50 | 7.0 | 120 | 8.0 | 2.52 |
| MW1812-101☐ | 100 | K, J | 40 | 8.0 | 110 | 8.0 | 0.796 |
| MW1812-121☐ | 120 | K, J | 40 | 8.0 | 110 | 6.0 | 0.796 |
| MW1812-151☐ | 150 | K, J | 40 | 9.0 | 105 | 5.0 | 0.796 |
| MW1812-181☐ | 180 | K, J | 40 | 9.5 | 102 | 5.0 | 0.796 |
| MW1812-221☐ | 220 | K, J | 40 | 10 | 100 | 4.0 | 0.796 |
| MW1812-271☐ | 270 | K, J | 40 | 12 | 92 | 4.0 | 0.796 |
| MW1812-331☐ | 330 | K, J | 40 | 14 | 85 | 3.5 | 0.796 |
| MW1812-391☐ | 390 | K, J | 40 | 18 | 80 | 3.0 | 0.796 |
| MW1812-471☐ | 470 | K, J | 40 | 26 | 62 | 3.0 | 0.796 |
| MW1812-561☐ | 560 | K, J | 30 | 30 | 50 | 3.0 | 0.796 |
| MW1812-681☐ | 680 | K, J | 30 | 30 | 50 | 3.0 | 0.796 |
| MW1812-821☐ | 820 | K, J | 30 | 35 | 30 | 2.5 | 0.796 |
| MW1812-102☐ | 1000 | K, J | 20 | 40 | 30 | 2.5 | 0.796 |