# MSR Shielded Wire Wound Power Inductors

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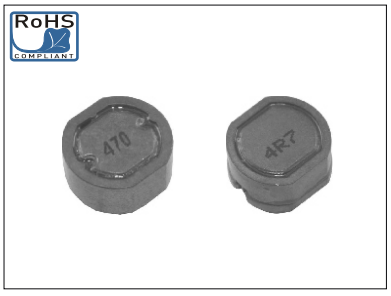


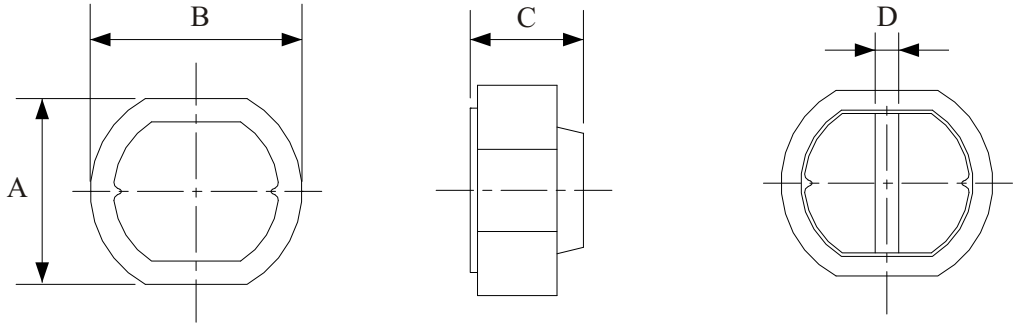

## Features

- Magnetically Shielded Structure
- Various high power inductors are superior to be high saturation for surface mounting.

## Applications

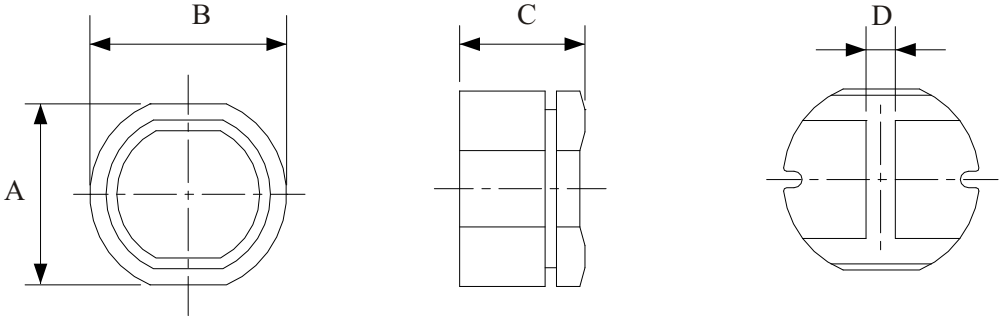
- Power supply for VTR
- OA equipment
- Digital camera
- LCD television set notebook PC
- Portable communication equipments
- DC/DC converters,etc.

## Dimensions & Configurations (Unit:mm)




| Type | A ±0.5 | B ±0.5 | C ±0.5 | D(ref.) |
|---|---|---|---|---|
| MSR0704 | 7.4 | 7.9 | 4.5 | 2.1 |
| MSR1005 | 9.6 | 10.0 | 5.0 | 2.9 |
| MSR1203 | 11.6 | 12.6 | 3.0 | 3.1 |
| MSR1205 | 11.6 | 12.6 | 5.4 | 3.1 |

## Dimensions & Configurations (Unit:mm)




| Type | A ±0.5 | B ±0.5 | C ±0.5 | D(ref.) |
|---|---|---|---|---|
| MSRB0603 | 5.6 | 6.2 | 3.2 | 1.7 |
| MSRB0704 | 7.0 | 7.8 | 4.5 | 2.0 |
| MSRB1005 | 9.0 | 10.0 | 5.5 | 3.0 |

## Electrical Characteristics For MSR0704 Series

| Part Number | Inductance [μH] | Test Freq [KHz] | DCR(max) [Ω] | IDC(max) [A] |
|---|---|---|---|---|
| MSR0704 - 100M | 10 | 1 | 0.07 | 1.65 |
| MSR0704 - 120M | 12 | 1 | 0.07 | 1.57 |
| MSR0704 - 150M | 15 | 1 | 0.08 | 1.39 |
| MSR0704 - 180M | 18 | 1 | 0.10 | 1.29 |
| MSR0704 - 220M | 22 | 1 | 0.13 | 1.12 |
| MSR0704 - 270M | 27 | 1 | 0.16 | 1.06 |
| MSR0704 - 330M | 33 | 1 | 0.18 | 0.97 |
| MSR0704 - 390M | 39 | 1 | 0.18 | 0.91 |
| MSR0704 - 470M | 47 | 1 | 0.27 | 0.80 |
| MSR0704 - 560M | 56 | 1 | 0.29 | 0.76 |
| MSR0704 - 680M | 68 | 1 | 0.33 | 0.68 |
| MSR0704 - 820M | 82 | 1 | 0.42 | 0.62 |
| MSR0704 - 101M | 100 | 1 | 0.49 | 0.55 |
| MSR0704 - 121M | 120 | 1 | 0.68 | 0.49 |
| MSR0704 - 151M | 150 | 1 | 0.94 | 0.44 |
| MSR0704 - 181M | 180 | 1 | 1.00 | 0.40 |
| MSR0704 - 221M | 220 | 1 | 1.18 | 0.36 |
| MSR0704 - 271M | 270 | 1 | 1.30 | 0.33 |

## Electrical Characteristics For MSR1005 Series

| Part Number | Inductance [μH] | Test Freq [KHz] | DCR(max) [Ω] | IDC(max) [A] |
|---|---|---|---|---|
| MSR1005 - 100M | 10 | 1 | 0.06 | 2.06 |
| MSR1005 - 120M | 12 | 1 | 0.07 | 1.94 |
| MSR1005 - 150M | 15 | 1 | 0.07 | 1.72 |
| MSR1005 - 180M | 18 | 1 | 0.08 | 1.58 |
| MSR1005 - 220M | 22 | 1 | 0.08 | 1.42 |
| MSR1005 - 270M | 27 | 1 | 0.10 | 1.32 |
| MSR1005 - 330L | 33 | 1 | 0.11 | 1.16 |
| MSR1005 - 390L | 39 | 1 | 0.12 | 1.10 |
| MSR1005 - 470L | 47 | 1 | 0.14 | 1.00 |
| MSR1005 - 560L | 56 | 1 | 0.19 | 0.93 |
| MSR1005 - 680L | 68 | 1 | 0.21 | 0.85 |
| MSR1005 - 820L | 82 | 1 | 0.28 | 0.79 |
| MSR1005 - 101K | 100 | 1 | 0.34 | 0.72 |
| MSR1005 - 121K | 120 | 1 | 0.37 | 0.63 |
| MSR1005 - 151K | 150 | 1 | 0.51 | 0.55 |
| MSR1005 - 181K | 180 | 1 | 0.57 | 0.50 |
| MSR1005 - 221K | 220 | 1 | 0.78 | 0.47 |
| MSR1005 - 271K | 270 | 1 | 0.87 | 0.41 |
| MSR1005 - 331K | 330 | 1 | 1.20 | 0.37 |
| MSR1005 - 391K | 390 | 1 | 1.34 | 0.35 |
| MSR1005 - 471K | 470 | 1 | 1.50 | 0.33 |

## Electrical Characteristics For MSR1203 Series

| Part Number | Inductance [μH] | Test Freq [KHz] | DCR(max) [Ω] | IDC(max) [A] |
|---|---|---|---|---|
| MSR1203 - 100M | 10 | 1 | 0.06 | 2.06 |
| MSR1203 - 120M | 12 | 1 | 0.07 | 1.94 |
| MSR1203 - 150M | 15 | 1 | 0.07 | 1.72 |
| MSR1203 - 180M | 18 | 1 | 0.08 | 1.58 |
| MSR1203 - 220M | 22 | 1 | 0.08 | 1.42 |
| MSR1203 - 270M | 27 | 1 | 0.10 | 1.32 |
| MSR1203 - 330L | 33 | 1 | 0.11 | 1.16 |
| MSR1203 - 390L | 39 | 1 | 0.12 | 1.10 |
| MSR1203 - 470L | 47 | 1 | 0.14 | 1.00 |
| MSR1203 - 560L | 56 | 1 | 0.19 | 0.93 |
| MSR1203 - 680L | 68 | 1 | 0.21 | 0.85 |
| MSR1203 - 820L | 82 | 1 | 0.28 | 0.79 |
| MSR1203 - 101K | 100 | 1 | 0.34 | 0.72 |
| MSR1203 - 121K | 120 | 1 | 0.37 | 0.63 |
| MSR1203 - 151K | 150 | 1 | 0.51 | 0.55 |
| MSR1203 - 181K | 180 | 1 | 0.57 | 0.50 |
| MSR1203 - 221K | 220 | 1 | 0.78 | 0.47 |
| MSR1203 - 271K | 270 | 1 | 0.87 | 0.41 |
| MSR1203 - 331K | 330 | 1 | 1.20 | 0.37 |
| MSR1203 - 391K | 390 | 1 | 1.34 | 0.35 |
| MSR1203 - 471K | 470 | 1 | 1.50 | 0.33 |

## Electrical Characteristics For MSR1205 Series

| Part Number | Inductance [μH] | Test Freq [KHz] | DCR(max) [Ω] | IDC(max) [A] |
|---|---|---|---|---|
| MSR1205 - 100M | 10 | 1 | 0.05 | 2.65 |
| MSR1205 - 120M | 12 | 1 | 0.05 | 2.50 |
| MSR1205 - 150M | 15 | 1 | 0.06 | 2.45 |
| MSR1205 - 180M | 18 | 1 | 0.06 | 2.40 |
| MSR1205 - 220M | 22 | 1 | 0.07 | 2.20 |
| MSR1205 - 270M | 27 | 1 | 0.08 | 2.00 |
| MSR1205 - 330M | 33 | 1 | 0.10 | 1.80 |
| MSR1205 - 390M | 39 | 1 | 0.11 | 1.65 |
| MSR1205 - 470M | 47 | 1 | 0.12 | 1.50 |
| MSR1205 - 560M | 56 | 1 | 0.15 | 1.38 |
| MSR1205 - 680M | 68 | 1 | 0.17 | 1.26 |
| MSR1205 - 820M | 82 | 1 | 0.20 | 1.14 |
| MSR1205 - 101M | 100 | 1 | 0.25 | 1.05 |
| MSR1205 - 121M | 120 | 1 | 0.28 | 0.95 |
| MSR1205 - 151M | 150 | 1 | 0.40 | 0.85 |
| MSR1205 - 181M | 180 | 1 | 0.48 | 0.77 |
| MSR1205 - 221M | 220 | 1 | 0.52 | 0.70 |
| MSR1205 - 271M | 270 | 1 | 0.70 | 0.63 |
| MSR1205 - 331M | 330 | 1 | 0.80 | 0.57 |
| MSR1205 - 391M | 390 | 1 | 1.08 | 0.52 |
| MSR1205 - 471M | 470 | 1 | 1.20 | 0.48 |
| MSR1205 - 561M | 560 | 1 | 1.34 | 0.44 |
| MSR1205 - 681M | 680 | 1 | 1.78 | 0.40 |
| MSR1205 - 821M | 820 | 1 | 2.00 | 0.36 |

## Electrical Characteristics For MSRB0603 Series

| Part Number | Inductance [μH] | Test Freq [KHz] | DCR(max) [Ω] | IDC(max) [A] |
|---|---|---|---|---|
| MSRB0603 - 100M | 10 | 1 | 0.14 | 1.00 |
| MSRB0603 - 120M | 12 | 1 | 0.16 | 0.94 |
| MSRB0603 - 150M | 15 | 1 | 0.18 | 0.86 |
| MSRB0603 - 180M | 18 | 1 | 0.25 | 0.78 |
| MSRB0603 - 220M | 22 | 1 | 0.32 | 0.76 |
| MSRB0603 - 270M | 27 | 1 | 0.36 | 0.64 |
| MSRB0603 - 330L | 33 | 1 | 0.41 | 0.61 |
| MSRB0603 - 390L | 39 | 1 | 0.47 | 0.53 |
| MSRB0603 - 470L | 47 | 1 | 0.51 | 0.50 |
| MSRB0603 - 560L | 56 | 1 | 0.72 | 0.46 |
| MSRB0603 - 680L | 68 | 1 | 0.82 | 0.42 |

## Electrical Characteristics For MSRB0704 Series

| Part Number | Inductance [μH] | Test Freq [KHz] | DCR(max) [Ω] | IDC(max) [A] |
|---|---|---|---|---|
| MSRB0704 - 100M | 10 | 1 | 0.07 | 1.65 |
| MSRB0704 - 120M | 12 | 1 | 0.07 | 1.57 |
| MSRB0704 - 150M | 15 | 1 | 0.08 | 1.39 |
| MSRB0704 - 180M | 18 | 1 | 0.10 | 1.29 |
| MSRB0704 - 220M | 22 | 1 | 0.13 | 1.12 |
| MSRB0704 - 270M | 27 | 1 | 0.16 | 1.06 |
| MSRB0704 - 330L | 33 | 1 | 0.18 | 0.97 |
| MSRB0704 - 390L | 39 | 1 | 0.18 | 0.91 |
| MSRB0704 - 470L | 47 | 1 | 0.27 | 0.80 |
| MSRB0704 - 560L | 56 | 1 | 0.29 | 0.76 |
| MSRB0704 - 680L | 68 | 1 | 0.33 | 0.68 |
| MSRB0704 - 820L | 82 | 1 | 0.43 | 0.62 |
| MSRB0704 - 101K | 100 | 1 | 0.49 | 0.55 |
| MSRB0704 - 121K | 120 | 1 | 0.68 | 0.49 |
| MSRB0704 - 151K | 150 | 1 | 0.94 | 0.44 |
| MSRB0704 - 181K | 180 | 1 | 1.00 | 0.40 |
| MSRB0704 - 221K | 220 | 1 | 1.18 | 0.36 |
| MSRB0704 - 271K | 270 | 1 | 1.30 | 0.33 |

## Electrical Characteristics For MSRB1005 Series

| Part Number | Inductance [μH] | Test Freq [KHz] | DCR(max) [Ω] | IDC(max) [A] |
|---|---|---|---|---|
| MSRB1005 - 100M | 10 | 1 | 0.06 | 2.06 |
| MSRB1005 - 120M | 12 | 1 | 0.07 | 1.94 |
| MSRB1005 - 150M | 15 | 1 | 0.07 | 1.72 |
| MSRB1005 - 180M | 18 | 1 | 0.08 | 1.58 |
| MSRB1005 - 220M | 22 | 1 | 0.08 | 1.42 |
| MSRB1005 - 270M | 27 | 1 | 0.10 | 1.32 |
| MSRB1005 - 330L | 33 | 1 | 0.11 | 1.16 |
| MSRB1005 - 390L | 39 | 1 | 0.12 | 1.10 |
| MSRB1005 - 470L | 47 | 1 | 0.14 | 1.00 |
| MSRB1005 - 560L | 56 | 1 | 0.19 | 0.93 |
| MSRB1005 - 680L | 68 | 1 | 0.21 | 0.85 |
| MSRB1005 - 820L | 82 | 1 | 0.28 | 0.79 |
| MSRB1005 - 101K | 100 | 1 | 0.34 | 0.72 |
| MSRB1005 - 121K | 120 | 1 | 0.37 | 0.63 |
| MSRB1005 - 151K | 150 | 1 | 0.54 | 0.55 |
| MSRB1005 - 181K | 180 | 1 | 0.57 | 0.50 |
| MSRB1005 - 221K | 220 | 1 | 0.78 | 0.47 |
| MSRB1005 - 271K | 270 | 1 | 0.87 | 0.41 |
| MSRB1005 - 331K | 330 | 1 | 1.20 | 0.37 |
| MSRB1005 - 391K | 390 | 1 | 1.34 | 0.35 |
| MSRB1005 - 471K | 470 | 1 | 1.50 | 0.33 |