

Wire Wound SMD Chip Inductor

◆ FEATURES

- 1、Lead-free materials is used for the plating on the terminals.
- 2、The product uses metal terminals,which realize excellent connection reliability.
- 3、High resistance to heat,humidity,mechanical shocks and presser.Accurate dimensions for automatically surface mounted.
- 4、The product has good heat durability that withstands lead-free compatible reflow soldering conditions.

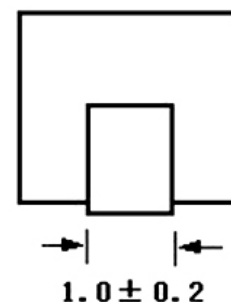
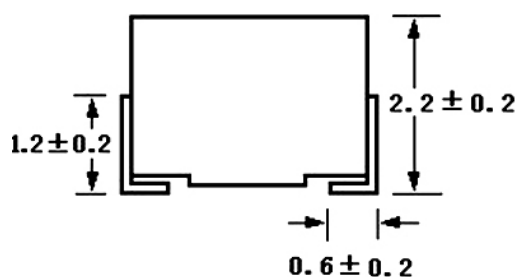
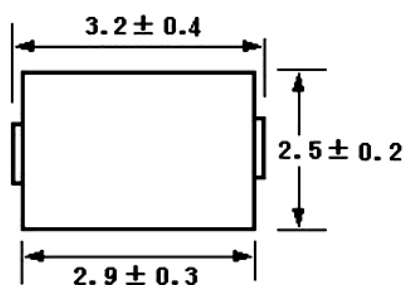
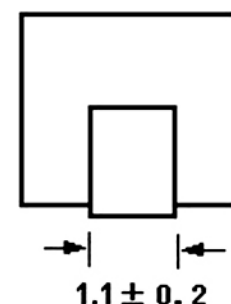
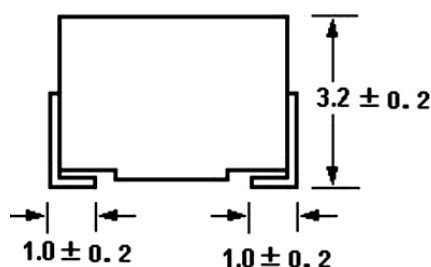
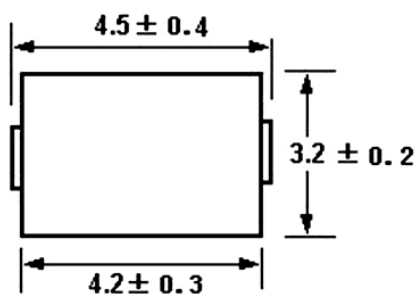
◆ Application

CMCW-M serials high reliable wire would chip inductors for communication , equipment , instrument , video & audio have been developen in response to the trend toward higher density mounting of parts in electric circuits.


◆ Lead Free Part Numbering

SCW 3225 M 4R7 K T T
(1) (2) (3) (4) (5) (6) (7)

- (1) Series Type
- (2) Dimension: L X W
- (3) Material Code
- (4) Inductance: 2R2=2.2μH ;
100=10μH; 101=100μH
- (5) Inductance Tolerance:
J=±5%, K=±10%, M=±20%
- (6) Company Code
- (7) Packaging : packed in embossed carrier tape

◆ SHAPE AND DIMENSIONS (unit: mm)

SCW3225M Series

SCW4532M Series

◆ Specifications

| Part No. | Inductance (μH) | Inductance tolerance | Q min. | Test frequency L,Q (MHz) | Self-resonant frequency (MHz)min. | DC resistance (Ω)max. | Rated current. (mA)max. |
|------------------------|-----------------|----------------------|--------|--------------------------|-----------------------------------|-----------------------|-------------------------|
| SCW3225M Series | | | | | | | |
| SCW3225MR10(X)TT | 0.10 | ±20,±10% | 28 | 100 | 700 | 0.44 | 450 |
| SCW3225MR12(X)TT | 0.12 | ±20,±10% | 30 | 25.2 | 500 | 0.22 | 450 |
| SCW3225MR15(X)TT | 0.15 | ±20,±10% | 30 | 25.2 | 450 | 0.25 | 450 |
| SCW3225MR18(X)TT | 0.18 | ±20,±10% | 30 | 25.2 | 400 | 0.28 | 450 |
| SCW3225MR22(X)TT | 0.22 | ±20,±10% | 30 | 25.2 | 350 | 0.32 | 450 |
| SCW3225MR27(X)TT | 0.27 | ±20,±10% | 30 | 25.2 | 320 | 0.36 | 450 |
| SCW3225MR33(X)TT | 0.33 | ±20,±10% | 30 | 25.2 | 300 | 0.40 | 450 |
| SCW3225MR39(X)TT | 0.39 | ±20,±10% | 30 | 25.2 | 250 | 0.45 | 450 |
| SCW3225MR47(X)TT | 0.47 | ±20,±10% | 30 | 25.2 | 220 | 0.50 | 450 |
| SCW3225MR56(X)TT | 0.56 | ±20,±10% | 30 | 25.2 | 180 | 0.55 | 450 |
| SCW3225MR68(X)TT | 0.68 | ±20,±10% | 30 | 25.2 | 160 | 0.60 | 450 |
| SCW3225MR82(X)TT | 0.82 | ±20,±10% | 30 | 25.2 | 140 | 0.65 | 450 |
| SCW3225M1R0(X)TT | 1.0 | ±10,±5% | 30 | 7.96 | 120 | 0.70 | 400 |
| SCW3225M1R2(X)TT | 1.2 | ±10,±5% | 30 | 7.96 | 100 | 0.75 | 390 |
| SCW3225M1R5(X)TT | 1.5 | ±10,±5% | 30 | 7.96 | 85 | 0.85 | 370 |
| SCW3225M1R8(X)TT | 1.8 | ±10,±5% | 30 | 7.96 | 80 | 0.90 | 350 |
| SCW3225M2R2(X)TT | 2.2 | ±10,±5% | 30 | 7.96 | 75 | 1.00 | 320 |
| SCW3225M2R7(X)TT | 2.7 | ±10,±5% | 30 | 7.96 | 70 | 1.10 | 290 |
| SCW3225M3R3(X)TT | 3.3 | ±10,±5% | 30 | 7.96 | 60 | 1.20 | 260 |
| SCW3225M3R9(X)TT | 3.9 | ±10,±5% | 30 | 7.96 | 55 | 1.30 | 250 |
| SCW3225M4R7(X)TT | 4.7 | ±10,±5% | 30 | 7.96 | 50 | 1.50 | 220 |
| SCW3225M5R6(X)TT | 5.6 | ±10,±5% | 30 | 7.96 | 45 | 1.60 | 200 |
| SCW3225M6R8(X)TT | 6.8 | ±10,±5% | 30 | 7.96 | 40 | 1.80 | 180 |
| SCW3225M8R2(X)TT | 8.2 | ±10,±5% | 30 | 7.96 | 35 | 2.00 | 170 |
| SCW3225M100(X)TT | 10 | ±10,±5% | 30 | 2.52 | 30 | 2.10 | 150 |
| SCW3225M120(X)TT | 12 | ±10,±5% | 30 | 2.52 | 20 | 2.50 | 140 |
| SCW3225M150(X)TT | 15 | ±10,±5% | 30 | 2.52 | 20 | 2.80 | 130 |

◆ Specifications

| Part No. | Inductance (μH) | Inductance tolerance | Q min. | Test frequency L,Q (MHz) | Self-resonant frequency (MHz)min. | DC resistance (Ω)max. | Rated current. (mA)max. |
|------------------------|-----------------|----------------------|--------|--------------------------|-----------------------------------|-----------------------|-------------------------|
| SCW3225M Series | | | | | | | |
| SCW3225M180(X)TT | 18 | ±10,±5% | 30 | 2.52 | 20 | 3.30 | 120 |
| SCW3225M220(X)TT | 22 | ±10,±5% | 30 | 2.52 | 20 | 3.70 | 110 |
| SCW3225M270(X)TT | 27 | ±10,±5% | 30 | 2.52 | 20 | 5.00 | 80 |
| SCW3225M330(X)TT | 33 | ±10,±5% | 30 | 2.52 | 17 | 5.60 | 70 |
| SCW3225M390(X)TT | 39 | ±10,±5% | 30 | 2.52 | 16 | 6.40 | 65 |
| SCW3225M470(X)TT | 47 | ±10,±5% | 30 | 2.52 | 15 | 7.00 | 60 |
| SCW3225M560(X)TT | 56 | ±10,±5% | 30 | 2.52 | 13 | 8.00 | 55 |
| SCW3225M680(X)TT | 68 | ±10,±5% | 30 | 2.52 | 12 | 9.00 | 50 |
| SCW3225M820(X)TT | 82 | ±10,±5% | 30 | 2.52 | 11 | 10.00 | 45 |
| SCW3225M101(X)TT | 100 | ±10,±5% | 20 | 0.796 | 10 | 10.00 | 40 |
| SCW3225M121(X)TT | 120 | ±10,±5% | 20 | 0.796 | 10 | 11.00 | 70 |
| SCW3225M151(X)TT | 150 | ±10,±5% | 20 | 0.796 | 8 | 15.00 | 65 |
| SCW3225M181(X)TT | 180 | ±10,±5% | 20 | 0.796 | 7 | 17.00 | 60 |
| SCW3225M221(X)TT | 220 | ±10,±5% | 20 | 0.796 | 7 | 21.00 | 50 |
| SCW4532M Series | | | | | | | |
| SCW4532MR10(X)TT | 0.10 | ±10%,±20% | 35 | 25.2 | 300 | 0.18 | 800 |
| SCW4532MR12(X)TT | 0.12 | ±10%,±20% | 35 | 25.2 | 280 | 0.2 | 770 |
| SCW4532MR15(X)TT | 0.15 | ±10%,±20% | 35 | 25.2 | 250 | 0.22 | 730 |
| SCW4532MR18(X)TT | 0.18 | ±10%,±20% | 35 | 25.2 | 220 | 0.24 | 700 |
| SCW4532MR22(X)TT | 0.22 | ±10%,±20% | 40 | 25.2 | 200 | 0.25 | 665 |
| SCW4532MR27(X)TT | 0.27 | ±10%,±20% | 40 | 25.2 | 180 | 0.26 | 635 |
| SCW4532MR33(X)TT | 0.33 | ±10%,±20% | 40 | 25.2 | 165 | 0.28 | 605 |
| SCW4532MR39(X)TT | 0.39 | ±10%,±20% | 40 | 25.2 | 150 | 0.3 | 575 |
| SCW4532MR47(X)TT | 0.47 | ±10%,±20% | 40 | 25.2 | 145 | 0.32 | 545 |
| SCW4532MR56(X)TT | 0.56 | ±10%,±20% | 40 | 25.2 | 140 | 0.36 | 520 |
| SCW4532MR68(X)TT | 0.68 | ±10%,±20% | 40 | 25.2 | 135 | 0.4 | 500 |
| SCW4532MR82(X)TT | 0.82 | ±10%,±20% | 40 | 25.2 | 130 | 0.45 | 475 |

◆ Specifications

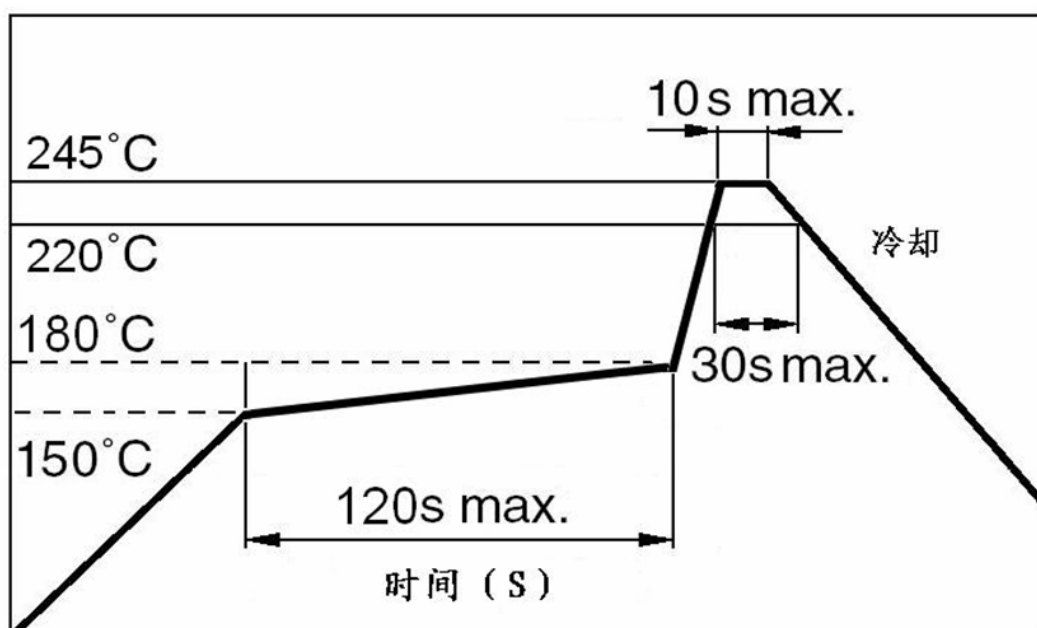
| Part No. | Inductance (μH) | Inductance tolerance | Q min. | Test frequency L,Q (MHz) | Self-resonant frequency (MHz)min. | DC resistance (Ω)max. | Rated current. (mA)max. |
|------------------------|-----------------|----------------------|--------|--------------------------|-----------------------------------|-----------------------|-------------------------|
| SCW4532M Series | | | | | | | |
| SMCW4532M1R0(X)TT | 1.0 | ±5%,±10% | 50 | 7.96 | 100 | 0.5 | 450 |
| SCW4532M1R2(X)TT | 1.2 | ±5%,±10% | 50 | 7.96 | 80 | 0.55 | 430 |
| SCW4532M1R5(X)TT | 1.5 | ±5%,±10% | 50 | 7.96 | 70 | 0.6 | 410 |
| SCW4532M1R8(X)TT | 1.8 | ±5%,±10% | 50 | 7.96 | 60 | 0.65 | 390 |
| SCW4532M2R2(X)TT | 2.2 | ±5%,±10% | 50 | 7.96 | 55 | 0.7 | 380 |
| SCW4532M2R7(X)TT | 2.7 | ±5%,±10% | 50 | 7.96 | 50 | 0.75 | 370 |
| SCW4532M3R3(X)TT | 3.3 | ±5%,±10% | 50 | 7.96 | 45 | 0.8 | 355 |
| SCW4532M3R9(X)TT | 3.9 | ±5%,±10% | 50 | 7.96 | 40 | 0.9 | 330 |
| SCW4532M4R7(X)TT | 4.7 | ±5%,±10% | 50 | 7.96 | 35 | 1 | 315 |
| SCW4532M5R6(X)TT | 5.6 | ±5%,±10% | 50 | 7.96 | 33 | 1.1 | 300 |
| SCW4532M6R8(X)TT | 6.8 | ±5%,±10% | 50 | 7.96 | 27 | 1.2 | 285 |
| SCW4532M8R2(X)TT | 8.2 | ±5%,±10% | 50 | 7.96 | 25 | 1.4 | 270 |
| SCW4532M100(X)TT | 10 | ±5%,±10% | 50 | 2.52 | 20 | 1.6 | 250 |
| SCW4532M120(X)TT | 12 | ±5%,±10% | 50 | 2.52 | 18 | 2 | 225 |
| SCW4532M150(X)TT | 15 | ±5%,±10% | 50 | 2.52 | 17 | 2.5 | 200 |
| SCW4532M180(X)TT | 18 | ±5%,±10% | 50 | 2.52 | 15 | 2.8 | 190 |
| SCW4532M220(X)TT | 22 | ±5%,±10% | 50 | 2.52 | 13 | 3.2 | 180 |
| SCW4532M270(X)TT | 27 | ±5%,±10% | 50 | 2.52 | 12 | 3.6 | 170 |
| SCW4532M330(X)TT | 33 | ±5%,±10% | 50 | 2.52 | 11 | 4 | 160 |
| SCW4532M390(X)TT | 39 | ±5%,±10% | 50 | 2.52 | 10 | 4.5 | 150 |
| SCW4532M470(X)TT | 47 | ±5%,±10% | 50 | 2.52 | 10 | 5 | 140 |
| SCW4532M560(X)TT | 56 | ±5%,±10% | 50 | 2.52 | 9 | 5.5 | 135 |
| SCW4532M680(X)TT | 68 | ±5%,±10% | 50 | 2.52 | 9 | 6 | 130 |
| SCW4532M820(X)TT | 82 | ±5%,±10% | 50 | 2.52 | 8 | 7 | 120 |
| SCW4532M101(X)TT | 100 | ±5%,±10% | 40 | 0.796 | 8 | 8 | 110 |
| SCW4532M121(X)TT | 120 | ±5%,±10% | 40 | 0.796 | 6 | 8 | 110 |
| SCW4532M151(X)TT | 150 | ±5%,±10% | 40 | 0.796 | 5 | 9 | 105 |

◆ Specifications

| Part No. | Inductance (μH) | Inductance tolerance | Q min. | Test frequency L, Q (MHz) | Self-resonant frequency (MHz)min. | DC resistance (Ω)max. | Rated current. (mA)max. |
|------------------------|-----------------|----------------------|--------|---------------------------|-----------------------------------|-----------------------|-------------------------|
| SCW4532M Series | | | | | | | |
| SCW4532M181(X)TT | 180 | ±5%,±10% | 40 | 0.796 | 5 | 9.5 | 102 |
| SCW4532M221(X)TT | 220 | ±5%,±10% | 40 | 0.796 | 4 | 10 | 100 |
| SCW4532M271(X)TT | 270 | ±5%,±10% | 40 | 0.796 | 4 | 12 | 92 |
| SCW4532M331(X)TT | 330 | ±5%,±10% | 40 | 0.796 | 3.5 | 14 | 85 |
| SCW4532M391(X)TT | 390 | ±5%,±10% | 40 | 0.796 | 3 | 18 | 80 |
| SCW4532M471(X)TT | 470 | ±5%,±10% | 40 | 0.796 | 3 | 26 | 62 |
| SCW4532M561(X)TT | 560 | ±5%,±10% | 30 | 0.796 | 3 | 30 | 50 |
| SCW4532M681(X)TT | 680 | ±5%,±10% | 30 | 0.796 | 3 | 30 | 50 |
| SCW4532M821(X)TT | 820 | ±5%,±10% | 30 | 0.796 | 2.5 | 35 | 30 |
| SCW4532M102(X)TT | 1000 | ±5%,±10% | 20 | 0.252 | 2.5 | 40 | 30 |

Note:

- 1、 Rated current: Value obtained when current flows and the temperature has risen to 20°C or when DC current flows and the initial value of inductance has fallen by 10%, whichever is smaller.
- 2、 Test equipment L, Q: HP4285A +16034E, or equivalent.
- 3、 SRF: HP8753C NETWORK ANALYZER, or equivalent.
- 4、 DC resistance: AX-111A DIGITAL MILLIOHM METER, or equivalent.

◆ Recommended soldering conditions reflow soldering


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