

# 片式绕线电感—SDWL-C 系列 (OEM Products)

## Chip Wire Wound Inductors SDWL-C Series

Operating Temp. : -55℃~ +125℃



| 特征                                                                                                   | FEATURES                                                                                                                                                                                                                                        |
|------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <ul style="list-style-type: none"><li>小尺寸，可表面贴装</li><li>陶瓷材料具有高 Q 值、高自谐频率</li><li>高精度、高可靠性</li></ul> | <ul style="list-style-type: none"><li>Small chip suitable for surface mounting</li><li>High Q value and high self-resonant frequency with ceramic material</li><li>Tight inductance tolerance and stable inductance at high frequency</li></ul> |

| 用途                                                                                                      | APPLICATIONS                                                                                                                                                                                |
|---------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <ul style="list-style-type: none"><li>通讯设备的高频线路</li><li>移动电话如 GSM/CDMA/PDC 等制式</li><li>蓝牙，无线网</li></ul> | <ul style="list-style-type: none"><li>High frequency circuit in telecommunication and other equipments</li><li>Mobile phones such as GSM, CDMA, PDC, etc</li><li>Bluetooth, W-LAN</li></ul> |

产品型号

PRODUCT IDENTIFICATION

SDWL

①

1608

②

C

③

10N

④

J

⑤

I

⑥

(f)

⑦

①

分类 Type

SDWL

片式绕线电感  
Chip Wire Wound Inductors

②

外形尺寸 External Dimensions

1005 [0402]

1608 [0603]

2012 [0805]

2520 [1008]

③

材料代号 Material Code

C

④

公称电感量 Nominal Inductance

Example

Nominal Value

10N10nH

R10100nH

1R01.0μH

⑤

电感公差 Inductance Tolerance

F±1%

G±2%

J±5%

K±10%

⑥

包装 Packing

B

散装 Bulk Package

T

编带 Tape & Reel

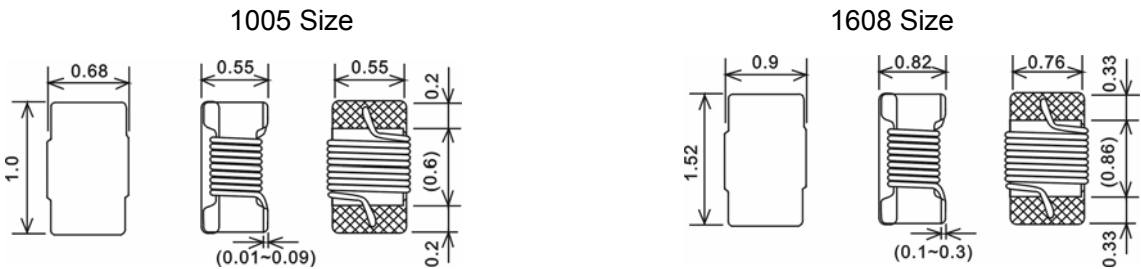
⑦

无铅产品 Lead Free Products

(f)

## 外观尺寸 SHAPE AND DIMENSIONS

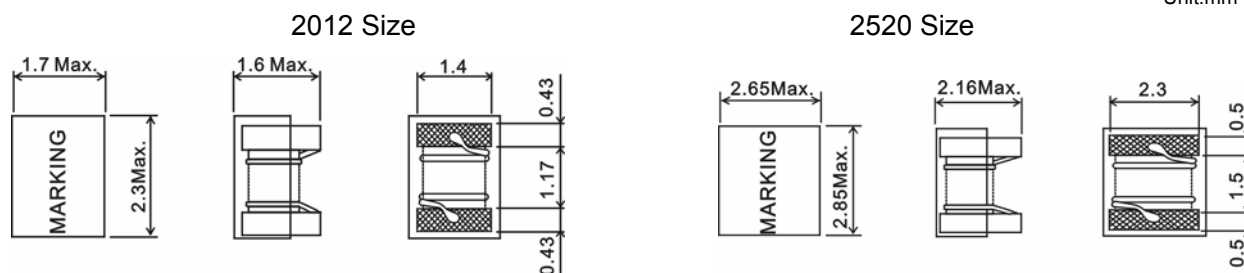
Unit:mm



## 外观尺寸

## SHAPE AND DIMENSIONS

Unit:mm



## 规格特性

## SPECIFICATIONS

## SDWL1005C TYPE

| Part Number<br>型号 | Inductance<br>电感量 | Min. Quality<br>Factor<br>品质因子 | L/Q Test<br>Freq.<br>测试频率 | Max. DC<br>Resistance<br>直流电阻 | Max. Rated<br>Current<br>额定电流 | Min. Self-resonant<br>Frequency<br>自谐频率 |
|-------------------|-------------------|--------------------------------|---------------------------|-------------------------------|-------------------------------|-----------------------------------------|
| Units 单位          | nH                | —                              | MHz                       | Ω                             | mA                            | MHz                                     |
| Symbol 符号         | L                 | Q                              | Freq.                     | DCR                           | I <sub>r</sub>                | S.R.F                                   |
| SDWL1005C1N0□     | 1.0               | 13                             | 250                       | 0.039                         | 1000                          | >6000                                   |
| SDWL1005C2N2□     | 2.2               | 16                             | 250                       | 0.073                         | 840                           | >6000                                   |
| SDWL1005C2N4□     | 2.4               | 16                             | 250                       | 0.073                         | 840                           | >6000                                   |
| SDWL1005C2N7□     | 2.7               | 16                             | 250                       | 0.073                         | 840                           | >6000                                   |
| SDWL1005C3N9□     | 3.9               | 17                             | 250                       | 0.110                         | 800                           | 5800                                    |
| SDWL1005C4N3□     | 4.3               | 18                             | 250                       | 0.110                         | 800                           | 5800                                    |
| SDWL1005C4N7□     | 4.7               | 20                             | 250                       | 0.110                         | 800                           | 5800                                    |
| SDWL1005C5N1□     | 5.1               | 21                             | 250                       | 0.110                         | 800                           | 5800                                    |
| SDWL1005C6N8□     | 6.8               | 23                             | 250                       | 0.142                         | 680                           | 4400                                    |
| SDWL1005C7N5□     | 7.5               | 23                             | 250                       | 0.142                         | 680                           | 4400                                    |
| SDWL1005C8N2□     | 8.2               | 24                             | 250                       | 0.142                         | 680                           | 4400                                    |
| SDWL1005C10N□     | 10                | 25                             | 250                       | 0.177                         | 600                           | 3700                                    |
| SDWL1005C11N□     | 11                | 25                             | 250                       | 0.177                         | 600                           | 3700                                    |
| SDWL1005C12N□     | 12                | 25                             | 250                       | 0.177                         | 600                           | 3600                                    |
| SDWL1005C13N□     | 13                | 26                             | 250                       | 0.177                         | 600                           | 3600                                    |
| SDWL1005C15N□     | 15                | 26                             | 250                       | 0.208                         | 560                           | 3200                                    |
| SDWL1005C16N□     | 16                | 26                             | 250                       | 0.208                         | 560                           | 3200                                    |
| SDWL1005C18N□     | 18                | 26                             | 250                       | 0.245                         | 480                           | 3000                                    |
| SDWL1005C20N□     | 20                | 26                             | 250                       | 0.245                         | 480                           | 3000                                    |
| SDWL1005C22N□     | 22                | 26                             | 250                       | 0.362                         | 375                           | 2700                                    |
| SDWL1005C24N□     | 24                | 26                             | 250                       | 0.362                         | 375                           | 2700                                    |
| SDWL1005C27N□     | 27                | 26                             | 250                       | 0.362                         | 375                           | 2700                                    |
| SDWL1005C30N□     | 30                | 26                             | 250                       | 0.408                         | 320                           | 2200                                    |
| SDWL1005C33N□     | 33                | 26                             | 250                       | 0.408                         | 320                           | 2200                                    |
| SDWL1005C36N□     | 36                | 26                             | 250                       | 0.458                         | 310                           | 2200                                    |
| SDWL1005C39N□     | 39                | 26                             | 250                       | 0.458                         | 310                           | 2200                                    |
| SDWL1005C43N□     | 43                | 26                             | 250                       | 0.502                         | 300                           | 2100                                    |
| SDWL1005C47N□     | 47                | 26                             | 250                       | 0.546                         | 260                           | 2000                                    |
| SDWL1005C51N□     | 51                | 26                             | 250                       | 0.546                         | 260                           | 2000                                    |
| SDWL1005C56N□     | 56                | 26                             | 250                       | 0.741                         | 200                           | 1900                                    |
| SDWL1005C68N□     | 68                | 26                             | 250                       | 1.16                          | 190                           | 1800                                    |
| SDWL1005C82N□     | 82                | 26                             | 250                       | 1.33                          | 180                           | 1700                                    |
| SDWL1005CR10□     | 100               | 26                             | 250                       | 1.87                          | 160                           | 1300                                    |
| SDWL1005CR12□     | 120               | 26                             | 250                       | 2.35                          | 140                           | 1200                                    |

※□: Please specify the inductance tolerance code.

## 规格特性

## SPECIFICATIONS

## SDWL1608C TYPE

| Part Number<br>型号 | Inductance<br>电感量 | Min. Quality<br>Factor<br>品质因子 | L/Q Test<br>Freq.<br>测试频率 | Max. DC<br>Resistance<br>直流电阻 | Max. Rated<br>Current<br>额定电流 | Min. Self-resonant<br>Frequency<br>自谐频率 |
|-------------------|-------------------|--------------------------------|---------------------------|-------------------------------|-------------------------------|-----------------------------------------|
| Units 单位          | nH                | —                              | MHz                       | Ω                             | mA                            | MHz                                     |
| Symbol 符号         | L                 | Q                              | Freq.                     | DCR                           | Ir                            | S.R.F                                   |
| SDWL1608C1N5□     | 1.5               | 16                             | 250                       | 0.045                         | 700                           | 6000                                    |
| SDWL1608C3N6□     | 3.6               | 22                             | 250                       | 0.063                         | 700                           | 5900                                    |
| SDWL1608C3N9□     | 3.9               | 22                             | 250                       | 0.080                         | 700                           | 6000                                    |
| SDWL1608C4N3□     | 4.3               | 22                             | 250                       | 0.063                         | 700                           | 5900                                    |
| SDWL1608C6N8□     | 6.8               | 27                             | 250                       | 0.110                         | 700                           | 5800                                    |
| SDWL1608C7N5□     | 7.5               | 28                             | 250                       | 0.106                         | 700                           | 4800                                    |
| SDWL1608C8N2□     | 8.2               | 28                             | 250                       | 0.110                         | 700                           | 4600                                    |
| SDWL1608C8N7□     | 8.7               | 28                             | 250                       | 0.109                         | 700                           | 4600                                    |
| SDWL1608C10N□     | 10                | 31                             | 250                       | 0.130                         | 700                           | 4800                                    |
| SDWL1608C11N□     | 11                | 33                             | 250                       | 0.130                         | 700                           | 4000                                    |
| SDWL1608C12N□     | 12                | 35                             | 250                       | 0.130                         | 700                           | 4000                                    |
| SDWL1608C15N□     | 15                | 35                             | 250                       | 0.170                         | 700                           | 4000                                    |
| SDWL1608C16N□     | 16                | 34                             | 250                       | 0.170                         | 700                           | 3300                                    |
| SDWL1608C18N□     | 18                | 35                             | 250                       | 0.170                         | 700                           | 3100                                    |
| SDWL1608C22N□     | 22                | 38                             | 250                       | 0.190                         | 700                           | 3000                                    |
| SDWL1608C24N□     | 24                | 37                             | 250                       | 0.190                         | 700                           | 2650                                    |
| SDWL1608C27N□     | 27                | 40                             | 250                       | 0.220                         | 600                           | 2800                                    |
| SDWL1608C30N□     | 30                | 37                             | 250                       | 0.220                         | 600                           | 2250                                    |
| SDWL1608C33N□     | 33                | 40                             | 250                       | 0.220                         | 600                           | 2300                                    |
| SDWL1608C36N□     | 36                | 38                             | 250                       | 0.250                         | 600                           | 2080                                    |
| SDWL1608C39N□     | 39                | 40                             | 250                       | 0.250                         | 600                           | 2200                                    |
| SDWL1608C43N□     | 43                | 39                             | 250                       | 0.280                         | 600                           | 2000                                    |
| SDWL1608C47N□     | 47                | 38                             | 200                       | 0.280                         | 600                           | 2000                                    |
| SDWL1608C56N□     | 56                | 38                             | 200                       | 0.310                         | 600                           | 1900                                    |
| SDWL1608C68N□     | 68                | 37                             | 200                       | 0.340                         | 600                           | 1700                                    |
| SDWL1608C72N□     | 72                | 34                             | 150                       | 0.490                         | 400                           | 1700                                    |
| SDWL1608C82N□     | 82                | 34                             | 150                       | 0.540                         | 400                           | 1700                                    |
| SDWL1608CR10□     | 100               | 34                             | 150                       | 0.580                         | 400                           | 1400                                    |
| SDWL1608CR11□     | 110               | 32                             | 150                       | 0.610                         | 300                           | 1350                                    |
| SDWL1608CR12□     | 120               | 32                             | 150                       | 0.720                         | 250                           | 1300                                    |
| SDWL1608CR15□     | 150               | 32                             | 150                       | 1.200                         | 200                           | 1300                                    |
| SDWL1608CR18□     | 180               | 25                             | 100                       | 1.350                         | 180                           | 1200                                    |
| SDWL1608CR22□     | 220               | 25                             | 100                       | 1.950                         | 160                           | 1150                                    |
| SDWL1608CR27□     | 270               | 28                             | 100                       | 2.600                         | 150                           | 900                                     |
| SDWL1608CR33□     | 330               | 27                             | 100                       | 3.700                         | 130                           | 800                                     |
| SDWL1608CR39□     | 390               | 27                             | 100                       | 4.800                         | 120                           | 700                                     |

※□: Please specify the inductance tolerance code.

## 规格特性

## SPECIFICATIONS

## SDWL2012C TYPE

| Part Number<br>型号 | Inductance<br>电感量 | Min. Quality<br>Factor<br>品质因子 | L/Q Test<br>Freq.<br>测试频率 | Max. DC<br>Resistance<br>直流电阻 | Max. Rated<br>Current<br>额定电流 | Min. Self-resonant<br>Frequency<br>自谐频率 |
|-------------------|-------------------|--------------------------------|---------------------------|-------------------------------|-------------------------------|-----------------------------------------|
| Units 单位          | nH                | —                              | MHz                       | Ω                             | mA                            | MHz                                     |
| Symbol 符号         | L                 | Q                              | Freq.                     | DCR                           | Ir                            | S.R.F                                   |
| SDWL2012C3N3□     | 3.3               | 50                             | 200                       | 0.08                          | 600                           | 6000                                    |
| SDWL2012C6N8□     | 6.8               | 50                             | 200                       | 0.11                          | 600                           | 5500                                    |
| SDWL2012C8N2□     | 8.2               | 50                             | 200                       | 0.12                          | 600                           | 4700                                    |
| SDWL2012C12N□     | 12                | 45                             | 200                       | 0.15                          | 600                           | 4000                                    |
| SDWL2012C15N□     | 15                | 45                             | 200                       | 0.17                          | 600                           | 3400                                    |
| SDWL2012C18N□     | 18                | 45                             | 200                       | 0.20                          | 600                           | 3300                                    |
| SDWL2012C22N□     | 22                | 45                             | 200                       | 0.22                          | 500                           | 2600                                    |
| SDWL2012C27N□     | 27                | 45                             | 200                       | 0.25                          | 500                           | 2500                                    |
| SDWL2012C33N□     | 33                | 40                             | 200                       | 0.27                          | 500                           | 2050                                    |
| SDWL2012C39N□     | 39                | 40                             | 200                       | 0.29                          | 500                           | 2000                                    |
| SDWL2012C47N□     | 47                | 40                             | 150                       | 0.31                          | 500                           | 1650                                    |
| SDWL2012C56N□     | 56                | 40                             | 150                       | 0.34                          | 500                           | 1550                                    |
| SDWL2012C68N□     | 68                | 40                             | 150                       | 0.38                          | 500                           | 1450                                    |
| SDWL2012C82N□     | 82                | 40                             | 150                       | 0.42                          | 400                           | 1300                                    |
| SDWL2012CR10□     | 100               | 40                             | 150                       | 0.46                          | 400                           | 1200                                    |
| SDWL2012CR12□     | 120               | 35                             | 100                       | 0.51                          | 400                           | 1100                                    |
| SDWL2012CR15□     | 150               | 35                             | 100                       | 0.56                          | 400                           | 920                                     |
| SDWL2012CR18□     | 180               | 35                             | 100                       | 0.64                          | 400                           | 870                                     |
| SDWL2012CR22□     | 220               | 30                             | 100                       | 0.70                          | 400                           | 850                                     |
| SDWL2012CR27□     | 270               | 28                             | 100                       | 1.00                          | 350                           | 650                                     |
| SDWL2012CR33□     | 330               | 25                             | 100                       | 1.40                          | 310                           | 600                                     |
| SDWL2012CR39□     | 390               | 23                             | 100                       | 1.50                          | 290                           | 560                                     |
| SDWL2012CR47□     | 470               | 23                             | 50                        | 1.76                          | 250                           | 375                                     |
| SDWL2012CR56□     | 560               | 23                             | 25.2                      | 1.90                          | 230                           | 340                                     |
| SDWL2012CR68□     | 680               | 23                             | 25.2                      | 2.20                          | 190                           | 188                                     |
| SDWL2012CR82□     | 820               | 23                             | 25.2                      | 2.35                          | 180                           | 215                                     |
| SDWL2012C1R0□     | 1000              | 25                             | 25.2                      | 3.20                          | 140                           | 300                                     |

※□: Please specify the inductance tolerance code.

## SDWL2520C TYPE

| Part Number<br>型号 | Inductance<br>电感量 | Min. Quality<br>Factor<br>品质因子 | L/Q Test<br>Freq.<br>测试频率 | Max. DC<br>Resistance<br>直流电阻 | Max. Rated<br>Current<br>额定电流 | Min. Self-resonant<br>Frequency<br>自谐频率 |
|-------------------|-------------------|--------------------------------|---------------------------|-------------------------------|-------------------------------|-----------------------------------------|
| Units 单位          | nH                | —                              | MHz                       | Ω                             | mA                            | MHz                                     |
| Symbol 符号         | L                 | Q                              | Freq.                     | DCR                           | Ir                            | S.R.F                                   |
| SDWL2520C10N□     | 10                | 50                             | 50                        | 0.08                          | 1000                          | 4100                                    |
| SDWL2520C12N□     | 12                | 50                             | 50                        | 0.09                          | 1000                          | 3300                                    |
| SDWL2520C18N□     | 18                | 50                             | 50                        | 0.11                          | 1000                          | 2500                                    |
| SDWL2520C22N□     | 22                | 50                             | 50                        | 0.12                          | 1000                          | 2400                                    |
| SDWL2520C27N□     | 27                | 50                             | 50                        | 0.13                          | 1000                          | 1500                                    |
| SDWL2520C33N□     | 33                | 50                             | 50                        | 0.14                          | 1000                          | 1600                                    |
| SDWL2520C39N□     | 39                | 50                             | 50                        | 0.15                          | 1000                          | 1500                                    |
| SDWL2520C47N□     | 47                | 50                             | 50                        | 0.16                          | 1000                          | 1500                                    |

## 规格特性

## SPECIFICATIONS

## SDWL2520C TYPE

| Part Number<br>型号 | Inductance<br>电感量 | Min. Quality<br>Factor<br>品质因子 | L/Q Test<br>Freq.<br>测试频率 | Max. DC<br>Resistance<br>直流电阻 | Max. Rated<br>Current<br>额定电流 | Min. Self-resonant<br>Frequency<br>自谐频率 |
|-------------------|-------------------|--------------------------------|---------------------------|-------------------------------|-------------------------------|-----------------------------------------|
| Units 单位          | nH                | —                              | MHz                       | Ω                             | mA                            | MHz                                     |
| Symbol 符号         | L                 | Q                              | Freq.                     | DCR                           | Ir                            | S.R.F                                   |
| SDWL2520C56N□     | 56                | 50                             | 50                        | 0.18                          | 1000                          | 1300                                    |
| SDWL2520C68N□     | 68                | 50                             | 50                        | 0.20                          | 1000                          | 1300                                    |
| SDWL2520C82N□     | 82                | 50                             | 50                        | 0.22                          | 1000                          | 950                                     |
| SDWL2520CR10□     | 100               | 25                             | 25.2                      | 0.56                          | 800                           | 950                                     |
| SDWL2520CR12□     | 120               | 25                             | 25.2                      | 0.63                          | 800                           | 950                                     |
| SDWL2520CR15□     | 150               | 25                             | 25.2                      | 0.70                          | 800                           | 850                                     |
| SDWL2520CR18□     | 180               | 25                             | 25.2                      | 0.77                          | 750                           | 750                                     |
| SDWL2520CR22□     | 220               | 28                             | 25.2                      | 0.84                          | 720                           | 600                                     |
| SDWL2520CR27□     | 270               | 28                             | 25.2                      | 0.91                          | 690                           | 550                                     |
| SDWL2520CR33□     | 330               | 30                             | 25.2                      | 1.05                          | 660                           | 500                                     |
| SDWL2520CR39□     | 390               | 30                             | 25.2                      | 1.12                          | 630                           | 465                                     |
| SDWL2520CR47□     | 470               | 30                             | 25.2                      | 1.19                          | 600                           | 450                                     |
| SDWL2520CR56□     | 560               | 30                             | 25.2                      | 1.33                          | 580                           | 415                                     |
| SDWL2520CR62□     | 620               | 30                             | 25.2                      | 1.40                          | 560                           | 375                                     |
| SDWL2520CR68□     | 680               | 30                             | 25.2                      | 1.47                          | 540                           | 375                                     |
| SDWL2520CR75□     | 750               | 33                             | 25.2                      | 1.54                          | 520                           | 330                                     |
| SDWL2520CR82□     | 820               | 33                             | 25.2                      | 1.61                          | 500                           | 325                                     |
| SDWL2520CR91□     | 910               | 33                             | 25.2                      | 1.68                          | 480                           | 305                                     |
| SDWL2520C1R0□     | 1000              | 33                             | 25.2                      | 1.75                          | 460                           | 240                                     |
| SDWL2520C1R2□     | 1200              | 20                             | 7.96                      | 2.00                          | 440                           | 200                                     |
| SDWL2520C1R5□     | 1500              | 20                             | 7.96                      | 2.30                          | 420                           | 165                                     |
| SDWL2520C1R8□     | 1800              | 20                             | 7.96                      | 2.60                          | 400                           | 150                                     |
| SDWL2520C2R2□     | 2200              | 20                             | 7.96                      | 2.80                          | 380                           | 140                                     |
| SDWL2520C2R7□     | 2700              | 20                             | 7.96                      | 3.20                          | 360                           | 110                                     |
| SDWL2520C3R3□     | 3300              | 20                             | 7.96                      | 3.40                          | 350                           | 90                                      |
| SDWL2520C3R9□     | 3900              | 20                             | 7.96                      | 3.60                          | 340                           | 70                                      |
| SDWL2520C4R7□     | 4700              | 20                             | 7.96                      | 4.00                          | 330                           | 60                                      |

※□: Please specify the inductance tolerance code.