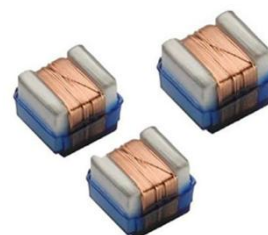


## FEATURES

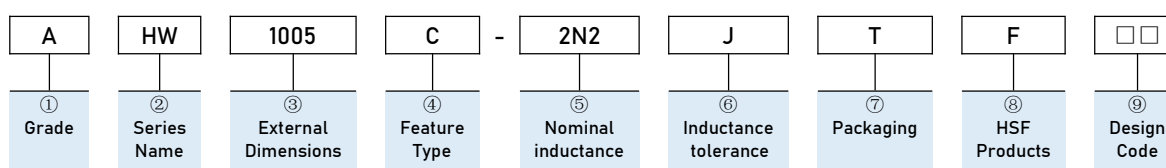
- High Q value and high self-resonant frequency with ceramic material.
- Small chip suitable for surface mounting .
- Tight inductance tolerance and high reliability.
- Operating Temperature: -40°C~+85°C .
- RoHS, Halogen Free and REACH Compliance.



## APPLICATIONS

- Bluetooth, Broadband network,W-LAN.
- Mobile phones and other electronic devices.
- High frequency circuit in telecommunication.

## PART NUMBERING



| ① Grade |            |
|---------|------------|
| A       | Grade Code |

| ② Series Name |   |
|---------------|---|
| HW            | High Frequency Wire Wound Chip Inductor |

| ③ External Dimensions |             |
|-----------------------|-------------|
|                       | 1005 [0402] |
|                       | 1608 [0603] |
|                       | 2012 [0805] |
|                       | 2520 [1008] |
|                       | 3225 [1210] |

| ④ Feature Type |              |
|----------------|--------------|
| C              | Ceramic core |

| ⑤ Nominal inductance |                           |
|----------------------|---------------------------|
| Code (example)       | Nominal inductance [ nH ] |
| 2N2                  | 2.2nH                     |
| 10N                  | 10nH                      |
| R10                  | 100nH                     |

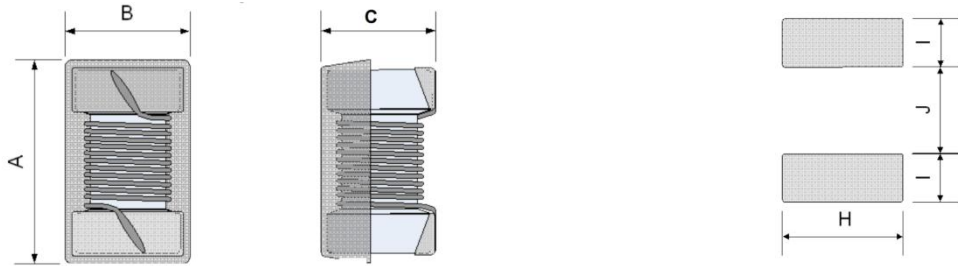
| ⑦ Packaging |             |
|-------------|-------------|
| T           | Tape & Reel |

| ⑥ Inductance tolerance |                      |
|------------------------|----------------------|
| Code (example)         | Inductance tolerance |
| J                      | ±5%                  |
| K                      | ±10%                 |
| M                      | ±20%                 |

| ⑨ Design Code |                           |
|---------------|---------------------------|
| □□            | Standard product is blank |

| ⑧ HSF Products |                                   |
|----------------|-----------------------------------|
| F              | Hazardous Substance Free Products |

Dimensions & Recommended Land Pattern



Recommended Land Pattern

Unit: mm

| Series   | Dimensions |        |        | Recommended Land Pattern |        |        |
|----------|------------|--------|--------|--------------------------|--------|--------|
|          | A Max.     | B Max. | C Max. | I Typ.                   | H Typ. | J Typ. |
| AHW1005C | 1.2        | 0.7    | 0.64   | 0.36                     | 0.66   | 0.46   |
| AHW1608C | 1.8        | 1.12   | 1.01   | 0.64                     | 1.02   | 0.64   |
| AHW2012C | 2.29       | 1.73   | 1.55   | 1.02                     | 1.78   | 0.76   |
| AHW2520C | 2.92       | 2.75   | 2.29   | 1.02                     | 2.54   | 1.27   |
| AHW3225C | 3.55       | 2.95   | 2.6    | 1.02                     | 2.85   | 1.78   |

Electrical Characteristics

● AHW1005C Series

| Part Number     | Inductance | L/Q Test Freq. | Heat Rating Current Max. | Quality Factor | Self-resonant Frequency | DC Resistance Max. |
|-----------------|------------|----------------|--------------------------|----------------|-------------------------|--------------------|
| Units           | nH         | MHz            | mA                       | -              | MHz                     | Ω                  |
| Symbol          | L          | Freq.          | I <sub>rms</sub>         | Q              | S.R.F                   | DCR                |
| AHW1005C-1N0□TF | 1          | 250            | 1360                     | 10             | 12900                   | 0.045              |
| AHW1005C-2N2□TF | 2.2        | 250            | 960                      | 21             | 10800                   | 0.090              |
| AHW1005C-2N4□TF | 2.4        | 250            | 920                      | 22             | 10650                   | 0.120              |
| AHW1005C-2N6□TF | 2.6        | 250            | 880                      | 23             | 10500                   | 0.150              |
| AHW1005C-2N7□TF | 2.7        | 250            | 860                      | 22             | 10400                   | 0.170              |
| AHW1005C-3N3□TF | 3.3        | 250            | 840                      | 24             | 7000                    | 0.076              |
| AHW1005C-3N9□TF | 3.9        | 250            | 840                      | 24             | 6000                    | 0.076              |
| AHW1005C-4N7JTF | 4.7        | 250            | 640                      | 20             | 4770                    | 0.130              |
| AHW1005C-5N6JTF | 5.6        | 250            | 760                      | 25             | 4800                    | 0.110              |
| AHW1005C-6N8JTF | 6.8        | 250            | 680                      | 24             | 4800                    | 0.120              |
| AHW1005C-8N2JTF | 8.2        | 250            | 680                      | 25             | 4400                    | 0.150              |
| AHW1005C-10NJTF | 10         | 250            | 480                      | 24             | 3900                    | 0.200              |
| AHW1005C-12NJTF | 12         | 250            | 640                      | 26             | 3600                    | 0.120              |
| AHW1005C-15NJTF | 15         | 250            | 560                      | 26             | 3280                    | 0.170              |
| AHW1005C-18NJTF | 18         | 250            | 420                      | 25             | 3100                    | 0.230              |
| AHW1005C-20NJTF | 20         | 250            | 420                      | 26             | 3000                    | 0.250              |
| AHW1005C-22NJTF | 22         | 250            | 400                      | 25             | 2800                    | 0.300              |
| AHW1005C-27NJTF | 27         | 250            | 400                      | 25             | 2480                    | 0.300              |
| AHW1005C-33NJTF | 33         | 250            | 400                      | 24             | 2350                    | 0.400              |
| AHW1005C-39NJTF | 39         | 250            | 200                      | 25             | 2100                    | 0.550              |
| AHW1005C-47NJTF | 47         | 250            | 150                      | 25             | 2100                    | 0.830              |
| AHW1005C-56NJTF | 56         | 250            | 100                      | 25             | 1760                    | 0.970              |
| AHW1005C-68NJTF | 68         | 250            | 100                      | 25             | 1620                    | 1.500              |

## Electrical Characteristics

### ● AHW1005C Series

| Part Number     | Inductance | L/Q Test Freq. | Heat Rating Current Max. | Quality Factor | Self-resonant Frequency | DC Resistance Max. |
|-----------------|------------|----------------|--------------------------|----------------|-------------------------|--------------------|
| Units           | nH         | MHz            | mA                       | -              | MHz                     | $\Omega$           |
| Symbol          | L          | Freq.          | Irms                     | Q              | S.R.F                   | DCR                |
| AHW1005C-82NJTF | 82         | 250            | 50                       | 25             | 1260                    | 1.800              |
| AHW1005C-91NJTF | 91         | 250            | 30                       | 24             | 1160                    | 2.200              |
| AHW1005C-R10JTF | 100        | 250            | 30                       | 24             | 1160                    | 2.500              |
| AHW1005C-R12JTF | 120        | 250            | 30                       | 24             | 1100                    | 2.200              |
| AHW1005C-R15JTF | 150        | 250            | 20                       | 10             | 1000                    | 4.000              |

### ● AHW1608 Series

| Part Number     | Inductance | L/Q Test Freq. | Heat Rating Current Max. | Quality Factor | Self-resonant Frequency | DC Resistance Max. |
|-----------------|------------|----------------|--------------------------|----------------|-------------------------|--------------------|
| Units           | nH         | MHz            | mA                       | -              | MHz                     | $\Omega$           |
| Symbol          | L          | Freq.          | Irms                     | Q              | S.R.F                   | DCR                |
| AHW1608C-2N2□TF | 2.2        | 250            | 700                      | 20             | 6800                    | 0.25               |
| AHW1608C-2N4□TF | 2.4        | 250            | 700                      | 8              | 12500                   | 0.25               |
| AHW1608C-2N6□TF | 2.6        | 250            | 700                      | 21             | 5000                    | 0.044              |
| AHW1608C-2N7□TF | 2.7        | 250            | 700                      | 22             | 5900                    | 0.045              |
| AHW1608C-3N3□TF | 3.3        | 250            | 700                      | 24             | 5860                    | 0.102              |
| AHW1608C-4N7JTF | 4.7        | 250            | 700                      | 20             | 5800                    | 0.116              |
| AHW1608C-6N8JTF | 6.8        | 250            | 700                      | 27             | 5800                    | 0.110              |
| AHW1608C-8N2JTF | 8.2        | 250            | 700                      | 30             | 4200                    | 0.115              |
| AHW1608C-10NJTF | 10         | 250            | 700                      | 31             | 4800                    | 0.130              |
| AHW1608C-15NJTF | 15         | 250            | 700                      | 35             | 4000                    | 0.170              |
| AHW1608C-18NJTF | 18         | 250            | 700                      | 35             | 3100                    | 0.170              |
| AHW1608C-22NJTF | 22         | 250            | 700                      | 38             | 3000                    | 0.190              |
| AHW1608C-27NJTF | 27         | 250            | 600                      | 40             | 2800                    | 0.220              |
| AHW1608C-43NJTF | 43         | 250            | 600                      | 38             | 2000                    | 0.280              |
| AHW1608C-47NJTF | 47         | 200            | 600                      | 38             | 2000                    | 0.280              |
| AHW1608C-56NJTF | 56         | 200            | 600                      | 38             | 1900                    | 0.310              |
| AHW1608C-68NJTF | 68         | 200            | 600                      | 37             | 1700                    | 0.340              |
| AHW1608C-82NJTF | 82         | 150            | 400                      | 34             | 1700                    | 0.540              |
| AHW1608C-91NJTF | 91         | 150            | 400                      | 28             | 1600                    | 0.580              |
| AHW1608C-R10JTF | 100        | 150            | 400                      | 34             | 1400                    | 0.580              |
| AHW1608C-R12JTF | 120        | 150            | 300                      | 32             | 1300                    | 0.650              |
| AHW1608C-R15JTF | 150        | 150            | 280                      | 28             | 990                     | 0.920              |
| AHW1608C-R16JTF | 160        | 150            | 280                      | 28             | 990                     | 1.250              |
| AHW1608C-R20JTF | 200        | 100            | 200                      | 25             | 900                     | 1.980              |
| AHW1608C-R22JTF | 220        | 100            | 200                      | 25             | 900                     | 2.100              |
| AHW1608C-R24JTF | 240        | 100            | 200                      | 25             | 900                     | 2.200              |
| AHW1608C-R27JTF | 270        | 100            | 170                      | 26             | 830                     | 2.160              |
| AHW1608C-R29JTF | 290        | 100            | 100                      | 25             | 800                     | 3.200              |
| AHW1608C-R30JTF | 300        | 100            | 100                      | 25             | 790                     | 2.500              |
| AHW1608C-R33JTF | 330        | 100            | 100                      | 25             | 790                     | 3.890              |
| AHW1608C-R39JTF | 390        | 100            | 100                      | 25             | 780                     | 4.350              |
| AHW1608C-R47JTF | 470        | 100            | 100                      | 25             | 700                     | 4.500              |
| AHW1608C-R56JTF | 560        | 100            | 90                       | 23             | 460                     | 5.000              |

## Electrical Characteristics

## ● AHW2012C Series

| Part Number     | Inductance | L/Q Test Freq. | Heat Rating Current Max. | Quality Factor | Self-resonant Frequency | DC Resistance Max. |
|-----------------|------------|----------------|--------------------------|----------------|-------------------------|--------------------|
| Units           | nH         | MHz            | mA                       | -              | MHz                     | Ω                  |
| Symbol          | L          | Freq.          | Irms                     | Q              | S.R.F                   | DCR                |
| AHW2012C-2N2□TF | 2.2        | 250            | 800                      | 50@1GHz        | 7900                    | 0.060              |
| AHW2012C-2N7□TF | 2.7        | 250            | 800                      | 50@1GHz        | 7900                    | 0.060              |
| AHW2012C-3N0□TF | 3          | 250            | 800                      | 40@1.5GHz      | 7900                    | 0.060              |
| AHW2012C-3N3□TF | 3.3        | 250            | 600                      | 40@1.5GHz      | 7900                    | 0.080              |
| AHW2012C-3N6□TF | 3.6        | 250            | 200                      | 20@1GHz        | 7900                    | 0.200              |
| AHW2012C-3N9□TF | 3.9        | 250            | 150                      | 20@1GHz        | 7900                    | 0.200              |
| AHW2012C-4N7JTF | 4.7        | 250            | 600                      | 35@1GHz        | 6200                    | 0.080              |
| AHW2012C-5N1JTF | 5.1        | 250            | 600                      | 50@1GHz        | 6200                    | 0.080              |
| AHW2012C-5N6JTF | 5.6        | 250            | 600                      | 65@1GHz        | 5900                    | 0.080              |
| AHW2012C-6N2JTF | 6.2        | 250            | 600                      | 65@1GHz        | 5900                    | 0.080              |
| AHW2012C-6N8JTF | 6.8        | 250            | 600                      | 50@1GHz        | 5600                    | 0.110              |
| AHW2012C-7N5JTF | 7.5        | 250            | 600                      | 50@1GHz        | 4800                    | 0.140              |
| AHW2012C-8N2JTF | 8.2        | 250            | 600                      | 50@1GHz        | 4400                    | 0.12               |
| AHW2012C-9N1JTF | 9.1        | 250            | 600                      | 60@500MHz      | 4300                    | 0.100              |
| AHW2012C-10NJTF | 10         | 250            | 600                      | 60@500MHz      | 4300                    | 0.100              |
| AHW2012C-12NJTF | 12         | 250            | 600                      | 50@500MHz      | 4000                    | 0.15               |
| AHW2012C-15NJTF | 15         | 250            | 600                      | 50@500MHz      | 3200                    | 0.17               |
| AHW2012C-16NJTF | 16         | 250            | 600                      | 50@500MHz      | 3200                    | 0.17               |
| AHW2012C-18NJTF | 18         | 250            | 600                      | 50@500MHz      | 3100                    | 0.200              |
| AHW2012C-20NJTF | 20         | 250            | 500                      | 55@500MHz      | 2600                    | 0.220              |
| AHW2012C-22NJTF | 22         | 250            | 500                      | 55@500MHz      | 2600                    | 0.220              |
| AHW2012C-23NJTF | 23         | 250            | 500                      | 50@500MHz      | 2400                    | 0.220              |
| AHW2012C-24NJTF | 24         | 250            | 500                      | 50@500MHz      | 2400                    | 0.220              |
| AHW2012C-25NJTF | 25         | 250            | 500                      | 50@500MHz      | 2450                    | 0.220              |
| AHW2012C-27NJTF | 27         | 250            | 500                      | 55@500MHz      | 2580                    | 0.250              |
| AHW2012C-30NJTF | 30         | 250            | 500                      | 55@500MHz      | 2400                    | 0.250              |
| AHW2012C-33NJTF | 33         | 250            | 500                      | 60@500MHz      | 2150                    | 0.270              |
| AHW2012C-36NJTF | 36         | 250            | 500                      | 55@500MHz      | 1900                    | 0.270              |
| AHW2012C-39NJTF | 39         | 250            | 500                      | 60@500MHz      | 1850                    | 0.290              |
| AHW2012C-43NJTF | 43         | 200            | 500                      | 60@500MHz      | 1800                    | 0.340              |
| AHW2012C-47NJTF | 47         | 200            | 500                      | 60@500MHz      | 1700                    | 0.310              |
| AHW2012C-50NJTF | 50         | 200            | 500                      | 60@500MHz      | 1650                    | 0.340              |
| AHW2012C-56NJTF | 56         | 200            | 500                      | 60@500MHz      | 1600                    | 0.340              |
| AHW2012C-62NJTF | 62         | 200            | 500                      | 60@500MHz      | 1450                    | 0.360              |
| AHW2012C-64NJTF | 64         | 200            | 500                      | 60@500MHz      | 1500                    | 0.380              |
| AHW2012C-68NJTF | 68         | 200            | 500                      | 60@500MHz      | 1500                    | 0.380              |
| AHW2012C-72NJTF | 72         | 150            | 500                      | 60@500MHz      | 1400                    | 0.380              |
| AHW2012C-75NJTF | 75         | 150            | 450                      | 60@500MHz      | 1400                    | 0.400              |
| AHW2012C-78NJTF | 78         | 150            | 450                      | 60@500MHz      | 1400                    | 0.400              |
| AHW2012C-82NJTF | 82         | 150            | 400                      | 65@500MHz      | 1330                    | 0.420              |
| AHW2012C-91NJTF | 91         | 150            | 400                      | 65@500MHz      | 1330                    | 0.480              |
| AHW2012C-R10JTF | 100        | 150            | 400                      | 65@500MHz      | 1250                    | 0.460              |
| AHW2012C-R11JTF | 110        | 150            | 400                      | 50@250MHz      | 1100                    | 0.480              |
| AHW2012C-R12JTF | 120        | 150            | 400                      | 50@250MHz      | 1100                    | 0.510              |
| AHW2012C-R13JTF | 130        | 100            | 400                      | 50@250MHz      | 920                     | 0.560              |
| AHW2012C-R14JTF | 140        | 100            | 400                      | 50@250MHz      | 920                     | 0.560              |
| AHW2012C-R15JTF | 150        | 100            | 400                      | 50@250MHz      | 920                     | 0.560              |
| AHW2012C-R16JTF | 160        | 100            | 400                      | 50@250MHz      | 920                     | 0.600              |
| AHW2012C-R18JTF | 180        | 100            | 400                      | 50@250MHz      | 920                     | 0.640              |
| AHW2012C-R20JTF | 200        | 100            | 400                      | 50@250MHz      | 860                     | 0.680              |

## Electrical Characteristics

## ● AHW2012C Series

| Part Number     | Inductance | L/Q Test Freq. | Heat Rating Current Max. | Quality Factor | Self-resonant Frequency | DC Resistance Max. |
|-----------------|------------|----------------|--------------------------|----------------|-------------------------|--------------------|
| Units           | nH         | MHz            | mA                       | -              | MHz                     | Ω                  |
| Symbol          | L          | Freq.          | Irms                     | Q              | S.R.F                   | DCR                |
| AHW2012C-R21JTF | 210        | 100            | 400                      | 50@250MHz      | 820                     | 0.700              |
| AHW2012C-R22JTF | 220        | 100            | 400                      | 50@250MHz      | 820                     | 0.700              |
| AHW2012C-R24JTF | 240        | 100            | 350                      | 44@250MHz      | 770                     | 1.000              |
| AHW2012C-R25JTF | 250        | 100            | 350                      | 45@250MHz      | 750                     | 1.200              |
| AHW2012C-R27JTF | 270        | 100            | 350                      | 48@250MHz      | 730                     | 1.000              |
| AHW2012C-R28JTF | 280        | 100            | 350                      | 48@250MHz      | 550                     | 1.350              |
| AHW2012C-R29JTF | 290        | 150            | 310                      | 48@250MHz      | 450                     | 1.400              |
| AHW2012C-R30JTF | 300        | 150            | 310                      | 48@250MHz      | 450                     | 1.400              |
| AHW2012C-R33JTF | 330        | 100            | 310                      | 48@250MHz      | 650                     | 1.400              |
| AHW2012C-R36JTF | 360        | 100            | 300                      | 48@250MHz      | 630                     | 1.450              |
| AHW2012C-R39JTF | 390        | 100            | 290                      | 48@250MHz      | 600                     | 1.500              |
| AHW2012C-R42JTF | 420        | 50             | 250                      | 33@100MHz      | 425                     | 1.700              |
| AHW2012C-R43JTF | 430        | 50             | 250                      | 33@100MHz      | 425                     | 1.700              |
| AHW2012C-R47JTF | 470        | 50             | 250                      | 33@100MHz      | 375                     | 1.760              |
| AHW2012C-R56JTF | 560        | 25             | 230                      | 23@50MHz       | 330                     | 1.900              |
| AHW2012C-R62JTF | 620        | 25             | 210                      | 23@50MHz       | 320                     | 2.200              |
| AHW2012C-R68JTF | 680        | 25             | 190                      | 23@50MHz       | 310                     | 2.200              |
| AHW2012C-R75JTF | 750        | 25             | 180                      | 23@50MHz       | 310                     | 2.300              |
| AHW2012C-R82JTF | 820        | 25             | 180                      | 23@50MHz       | 310                     | 2.350              |
| AHW2012C-R88JTF | 880        | 25             | 180                      | 23@50MHz       | 310                     | 2.350              |
| AHW2012C-R91JTF | 910        | 25             | 170                      | 22@50MHz       | 250                     | 2.450              |
| AHW2012C-1R0JTF | 1000       | 25             | 170                      | 20@50MHz       | 220                     | 2.500              |
| AHW2012C-1R2JTF | 1200       | 25             | 150                      | 20@25MHz       | 180                     | 2.900              |
| AHW2012C-1R5JTF | 1500       | 25             | 150                      | 20@25MHz       | 160                     | 3.300              |
| AHW2012C-1R6JTF | 1600       | 25             | 150                      | 20@25MHz       | 140                     | 3.400              |
| AHW2012C-1R8JTF | 1800       | 25             | 120                      | 20@25MHz       | 130                     | 3.500              |
| AHW2012C-2R2JTF | 2200       | 25             | 120                      | 20@25MHz       | 100                     | 4.500              |
| AHW2012C-2R7JTF | 2700       | 25             | 100                      | 18@25MHz       | 80                      | 4.800              |
| AHW2012C-3R3JTF | 3300       | 25             | 50                       | 18@25MHz       | 50                      | 6.800              |
| AHW2012C-4R7JTF | 4700       | 25             | 30                       | 18@25MHz       | 40                      | 7.000              |

## ● AHW2520C Series

| Part Number     | Inductance | L/Q Test Freq. | Heat Rating Current Max. | Quality Factor | Self-resonant Frequency | DC Resistance Max. |
|-----------------|------------|----------------|--------------------------|----------------|-------------------------|--------------------|
| Units           | nH         | MHz            | mA                       | -              | MHz                     | Ω                  |
| Symbol          | L          | Freq.          | Irms                     | Q              | S.R.F                   | DCR                |
| AHW2520C-22NJTF | 22         | 50             | 1000                     | 55@150MHz      | 2400                    | 0.120              |
| AHW2520C-39NJTF | 39         | 50             | 1000                     | 60@150MHz      | 1500                    | 0.150              |
| AHW2520C-47NJTF | 47         | 50             | 1000                     | 65@150MHz      | 1500                    | 0.160              |
| AHW2520C-56NJTF | 56         | 50             | 1000                     | 65@150MHz      | 1300                    | 0.180              |
| AHW2520C-68NJTF | 68         | 50             | 1000                     | 65@150MHz      | 1300                    | 0.200              |
| AHW2520C-91NJTF | 91         | 50             | 650                      | 60@150MHz      | 1000                    | 0.560              |
| AHW2520C-R10JTF | 100        | 25             | 650                      | 60@150MHz      | 1000                    | 0.560              |
| AHW2520C-R12JTF | 120        | 25             | 650                      | 60@150MHz      | 950                     | 0.630              |
| AHW2520C-R15JTF | 150        | 25             | 580                      | 45@100MHz      | 850                     | 0.700              |
| AHW2520C-R18JTF | 180        | 25             | 620                      | 45@100MHz      | 750                     | 0.770              |
| AHW2520C-R20JTF | 200        | 25             | 500                      | 45@100MHz      | 700                     | 0.840              |
| AHW2520C-R22JTF | 220        | 25             | 500                      | 45@100MHz      | 700                     | 0.840              |
| AHW2520C-R27JTF | 270        | 25             | 500                      | 45@100MHz      | 600                     | 0.910              |

## Electrical Characteristics

## ● AHW2520C Series

| Part Number     | Inductance | L/Q Test Freq. | Heat Rating Current Max. | Quality Factor | Self-resonant Frequency | DC Resistance Max. |
|-----------------|------------|----------------|--------------------------|----------------|-------------------------|--------------------|
| Units           | nH         | MHz            | mA                       | -              | MHz                     | Ω                  |
| Symbol          | L          | Freq.          | Irms                     | Q              | S.R.F                   | DCR                |
| AHW2520C-R33JTF | 330        | 25             | 450                      | 45@100MHz      | 570                     | 1.050              |
| AHW2520C-R39JTF | 390        | 25             | 470                      | 45@100MHz      | 500                     | 1.12               |
| AHW2520C-R47JTF | 470        | 25             | 470                      | 45@100MHz      | 450                     | 1.19               |
| AHW2520C-R56JTF | 560        | 25             | 400                      | 45@100MHz      | 415                     | 1.330              |
| AHW2520C-R68JTF | 680        | 25             | 400                      | 45@100MHz      | 375                     | 1.470              |
| AHW2520C-R82JTF | 820        | 25             | 400                      | 45@100MHz      | 350                     | 1.610              |
| AHW2520C-R91JTF | 910        | 25             | 380                      | 35@50MHz       | 320                     | 1.680              |
| AHW2520C-1R0JTF | 1000       | 25             | 370                      | 35@50MHz       | 290                     | 1.800              |
| AHW2520C-1R2JTF | 1200       | 7.9            | 310                      | 35@50MHz       | 250                     | 2.000              |
| AHW2520C-1R5JTF | 1500       | 7.9            | 330                      | 28@50MHz       | 200                     | 2.300              |
| AHW2520C-1R8JTF | 1800       | 7.9            | 300                      | 28@50MHz       | 160                     | 2.600              |
| AHW2520C-2R2JTF | 2200       | 7.9            | 280                      | 28@50MHz       | 160                     | 2.800              |
| AHW2520C-2R7JTF | 2700       | 7.9            | 290                      | 22@25MHz       | 140                     | 3.200              |
| AHW2520C-3R3JTF | 3300       | 7.9            | 290                      | 22@25MHz       | 110                     | 3.400              |
| AHW2520C-3R9JTF | 3900       | 7.9            | 260                      | 20@25MHz       | 100                     | 3.600              |
| AHW2520C-4R7JTF | 4700       | 7.9            | 260                      | 20@7.9MHz      | 60                      | 4.000              |
| AHW2520C-5R6JTF | 5600       | 7.9            | 240                      | 16@7.9MHz      | 20                      | 5.700              |
| AHW2520C-6R8JTF | 6800       | 7.9            | 200                      | 18@7.9MHz      | 40                      | 7.700              |
| AHW2520C-8R2JTF | 8200       | 7.9            | 170                      | 18@7.9MHz      | 25                      | 10.700             |
| AHW2520C-100JTF | 10000      | 7.9            | 100                      | 18@7.9MHz      | 25                      | 12.700             |

## ● AHW3225C Series

| Part Number     | Inductance | L/Q Test Freq. | Heat Rating Current Max. | Quality Factor | Self-resonant Frequency | DC Resistance Max. |
|-----------------|------------|----------------|--------------------------|----------------|-------------------------|--------------------|
| Units           | nH         | MHz            | mA                       | -              | MHz                     | Ω                  |
| Symbol          | L          | Freq.          | Irms                     | Q              | S.R.F                   | DCR                |
| AHW3225C-10NJTF | 10         | 100            | 1000                     | 40@300MHZ      | 4000                    | 0.080              |
| AHW3225C-12NJTF | 12         | 100            | 1000                     | 40@300MHZ      | 3200                    | 0.080              |
| AHW3225C-15NJTF | 15         | 100            | 1000                     | 40@300MHZ      | 3200                    | 0.200              |
| AHW3225C-18NJTF | 18         | 100            | 1000                     | 50@300MHZ      | 2800                    | 0.100              |
| AHW3225C-22NJTF | 22         | 100            | 1000                     | 50@300MHZ      | 220                     | 0.100              |
| AHW3225C-27NJTF | 27         | 100            | 1000                     | 50@300MHZ      | 1800                    | 0.110              |
| AHW3225C-33NJTF | 33         | 100            | 1000                     | 55@300MHZ      | 1800                    | 0.110              |
| AHW3225C-39NJTF | 39         | 100            | 1000                     | 55@300MHZ      | 1500                    | 0.120              |
| AHW3225C-43NJTF | 43         | 100            | 1000                     | 55@300MHZ      | 1500                    | 0.120              |
| AHW3225C-47NJTF | 47         | 100            | 1000                     | 55@300MHZ      | 1500                    | 0.130              |
| AHW3225C-56NJTF | 56         | 100            | 1000                     | 55@300MHZ      | 1450                    | 0.140              |
| AHW3225C-68NJTF | 68         | 100            | 900                      | 55@300MHZ      | 1200                    | 0.150              |
| AHW3225C-82NJTF | 82         | 100            | 900                      | 55@300MHZ      | 1000                    | 0.200              |
| AHW3225C-91NJTF | 91         | 100            | 1000                     | 60@300MHZ      | 1100                    | 0.200              |
| AHW3225C-R10JTF | 100        | 100            | 850                      | 55@300MHZ      | 900                     | 0.200              |
| AHW3225C-R12JTF | 120        | 100            | 800                      | 60@300MHZ      | 800                     | 0.250              |
| AHW3225C-R15JTF | 150        | 100            | 750                      | 60@300MHZ      | 700                     | 0.300              |
| AHW3225C-R18JTF | 180        | 50             | 700                      | 60@300MHZ      | 650                     | 0.300              |
| AHW3225C-R22JTF | 220        | 50             | 770                      | 60@300MHZ      | 650                     | 0.400              |
| AHW3225C-R24JTF | 240        | 50             | 630                      | 40@300MHZ      | 580                     | 0.400              |
| AHW3225C-R27JTF | 270        | 50             | 630                      | 40@300MHZ      | 580                     | 0.400              |
| AHW3225C-R33JTF | 330        | 50             | 590                      | 45@150MHZ      | 580                     | 0.580              |
| AHW3225C-R36JTF | 360        | 50             | 530                      | 45@150MHZ      | 510                     | 0.580              |

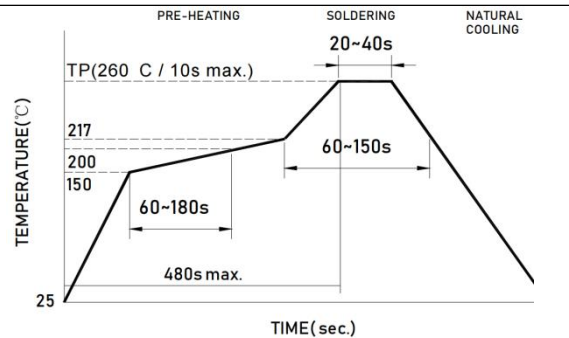
Electrical Characteristics

● AHW3225C Series

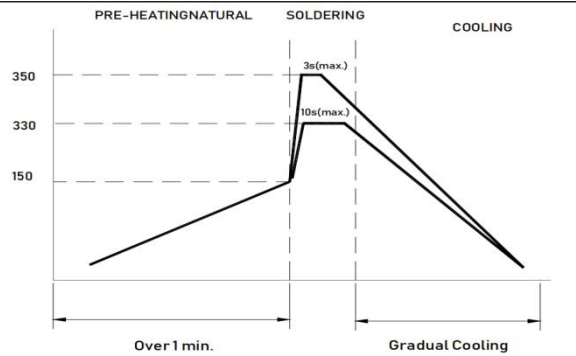
| Part Number     | Inductance | L/Q Test Freq. | Heat Rating Current Max. | Quality Factor | Self-resonant Frequency | DC Resistance Max. |
|-----------------|------------|----------------|--------------------------|----------------|-------------------------|--------------------|
| Units           | nH         | MHz            | mA                       | -              | MHz                     | Ω                  |
| Symbol          | L          | Freq.          | I <sub>rms</sub>         | Q              | S.R.F                   | DCR                |
| AHW3225C-R39JTF | 390        | 50             | 530                      | 45@150MHZ      | 510                     | 0.580              |
| AHW3225C-R47JTF | 470        | 50             | 490                      | 45@150MHZ      | 480                     | 1.000              |
| AHW3225C-R56JTF | 560        | 25             | 460                      | 45@150MHZ      | 420                     | 1.100              |
| AHW3225C-R68JTF | 680        | 25             | 430                      | 45@150MHZ      | 400                     | 1.200              |
| AHW3225C-R82JTF | 820        | 25             | 400                      | 45@150MHZ      | 370                     | 2.000              |
| AHW3225C-1R0JTF | 1000       | 25             | 320                      | 45@150MHZ      | 340                     | 1.850              |
| AHW3225C-1R2JTF | 1200       | 25             | 300                      | 45@150MHZ      | 220                     | 2.300              |
| AHW3225C-1R5JTF | 1500       | 7.9            | 310                      | 20@50MHZ       | 160                     | 2.700              |
| AHW3225C-1R8JTF | 1800       | 7.9            | 310                      | 30@50MHZ       | 160                     | 3.500              |
| AHW3225C-2R2JTF | 2200       | 7.9            | 310                      | 25@50MHZ       | 130                     | 2.410              |
| AHW3225C-2R7JTF | 2700       | 7.9            | 300                      | 25@50MHZ       | 110                     | 3.500              |
| AHW3225C-3R0JTF | 3000       | 7.9            | 300                      | 20@25MHZ       | 110                     | 3.500              |
| AHW3225C-3R3JTF | 3300       | 7.9            | 290                      | 20@25MHZ       | 60                      | 3.600              |
| AHW3225C-3R9JTF | 3900       | 7.9            | 290                      | 20@25MHZ       | 60                      | 4.000              |
| AHW3225C-4R7JTF | 4700       | 7.9            | 280                      | 20@25MHZ       | 60                      | 5.000              |
| AHW3225C-5R2JTF | 5200       | 7.9            | 250                      | 15@25MHZ       | 50                      | 6.000              |
| AHW3225C-5R6JTF | 5600       | 7.9            | 250                      | 15@25MHZ       | 50                      | 6.000              |
| AHW3225C-6R8JTF | 6800       | 7.9            | 230                      | 15@7.9MHZ      | 40                      | 9.000              |
| AHW3225C-7R5JTF | 7500       | 7.9            | 170                      | 20@7.9MHZ      | 50                      | 9.500              |
| AHW3225C-8R2JTF | 8200       | 7.9            | 170                      | 20@7.9MHZ      | 50                      | 9.500              |
| AHW3225C-8R6JTF | 8600       | 7.9            | 200                      | 15@7.9MHZ      | 40                      | 9.000              |
| AHW3225C-100JTF | 10000      | 7.9            | 150                      | 15@7.9MHZ      | 30                      | 10.000             |

Soldering Conditions

- Preheat circuit and products to 150 °C
- 260 °C tip temperature (max)
- Reflow times: no more than 2 times
- Solder paste thickness: the best 0.08mm is, but max is 0.1mm



- Use a 20 watt soldering iron with tip diameter of 1.0mm
- Limit soldering time to 3 sec.



**Note:**

This series product is not applies in automotive or related products. Otherwise, we will shall not bear than the resulting all the problems of quality and responsibility.

Please be sure to request approval specifications that provide further details of the products. Kindly not that the content of these specifications are subject to change or may be discontinued without prior notice. This product may not be designed/used in medical or high risk applications without APV approval.



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