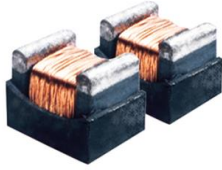


## BWNC Series



The characteristics of this series perform low RDC and carry large current. These unique open type inductors offer many superior features in opposition to the molding type one of Japanese peers.

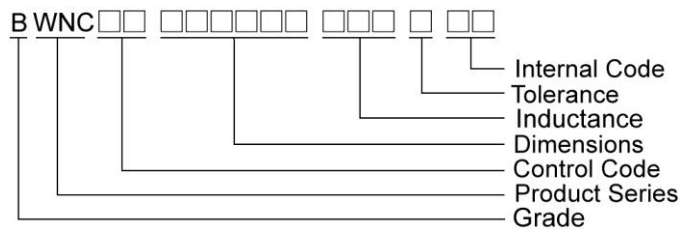
### Features

- RoHS compliant
- Very strong solderability by reflow soldering and soldering iron
- Highly accurate dimensions can be mounted automatically
- Terminals are highly resistant to pull forces
- Highly resistant to mechanical shocks and pressure
- Highly reliable in environments of sudden temperature change and humidity
- Superior IDC for DC/DC converter

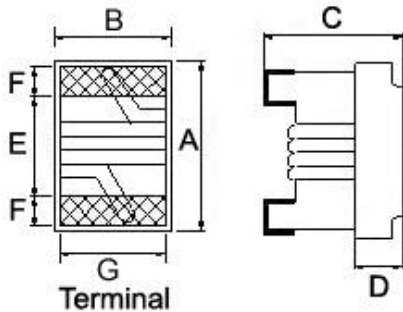
### Applications

- DC/DC converter such as DSC
- LCD TV
- Game console
- Portable VCRs
- Conveyable telephone and others

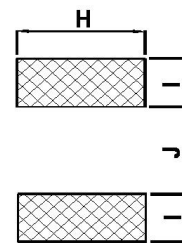
### Product Identification



### Shape and Dimensions



### Recommended Pattern



Dimensions in mm

| TYPE         | A Max | B Max | C Max | D   | E   | F   | G   | H    | I    | J    |
|--------------|-------|-------|-------|-----|-----|-----|-----|------|------|------|
| BWNC00292522 | 2.92  | 2.50  | 2.20  | 0.7 | 1.5 | 0.5 | 2.0 | 2.54 | 1.02 | 1.27 |
| BWNC00372926 | 3.70  | 2.90  | 2.60  | 0.7 | 2.0 | 0.6 | 2.4 | 2.70 | 1.00 | 2.00 |

# SMD Wire Wound Ferrite Chip Inductors – BWNC Series

## Electrical Characteristics

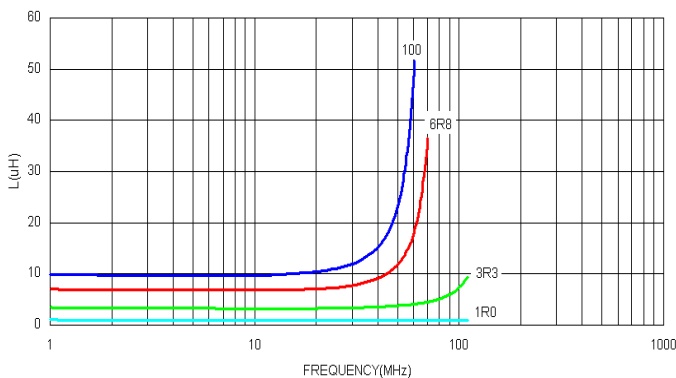
| Part Number        | Inductance (uH) | Tolerance (±%) | Q Min | Test Frequency (MHz) | SRF (MHz) Min | RDC (Ω) Max | IDC (mA) | Color Coding    |                 |                 |
|--------------------|-----------------|----------------|-------|----------------------|---------------|-------------|----------|-----------------|-----------------|-----------------|
|                    |                 |                |       |                      |               |             |          | 1 <sup>ST</sup> | 2 <sup>ND</sup> | 3 <sup>RD</sup> |
| BWNC002925221R0□00 | 1.0             | 10 / 5         | 25    | 7.96                 | 300           | 0.34        | 1500     | Brown           | Black           | Red             |
| BWNC002925221R2□00 | 1.2             | 10 / 5         | 25    | 7.96                 | 280           | 0.40        | 1400     | Brown           | Red             | Red             |
| BWNC002925221R5□00 | 1.5             | 10 / 5         | 25    | 7.96                 | 270           | 0.42        | 1400     | Brown           | Green           | Red             |
| BWNC002925221R8□00 | 1.8             | 10 / 5         | 25    | 7.96                 | 150           | 0.45        | 1200     | Brown           | Gray            | Red             |
| BWNC002925222R2□00 | 2.2             | 10 / 5         | 25    | 7.96                 | 140           | 0.50        | 1200     | Red             | Red             | Red             |
| BWNC002925223R3□00 | 3.3             | 10 / 5         | 25    | 7.96                 | 95            | 0.65        | 1000     | Orange          | Orange          | Red             |
| BWNC002925224R7□00 | 4.7             | 10 / 5         | 25    | 7.96                 | 90            | 0.80        | 800      | Yellow          | Violet          | Red             |
| BWNC002925226R8□00 | 6.8             | 10 / 5         | 25    | 7.96                 | 68            | 1.00        | 730      | Blue            | Gray            | Red             |
| BWNC00292522100□00 | 10              | 10 / 5         | 20    | 2.52                 | 45            | 1.50        | 700      | Brown           | Black           | Orange          |
| BWNC00292522150□00 | 15              | 10 / 5         | 20    | 2.52                 | 40            | 2.20        | 500      | Brown           | Green           | Orange          |
| BWNC00292522220□00 | 22              | 10 / 5         | 20    | 2.52                 | 25            | 2.70        | 470      | Red             | Red             | Orange          |
| BWNC00292522330□00 | 33              | 10 / 5         | 20    | 2.52                 | 25            | 4.00        | 400      | Orange          | Orange          | Orange          |
| BWNC00292522390□00 | 39              | 10 / 5         | 16    | 2.52                 | 20            | 7.00        | 320      | Orange          | White           | Orange          |
| BWNC00292522470□00 | 47              | 10 / 5         | 16    | 2.52                 | 20            | 8.00        | 300      | Yellow          | Violet          | Orange          |

**Note:** When ordering, please specify tolerance code. Tolerance : J=±5% , K=±10%

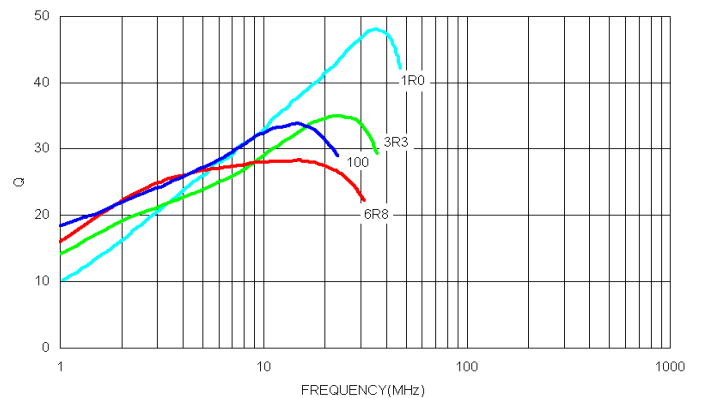
- Operating temperature range—40°C ~ 105°C (Including self - temperature rise)
- IDC for Inductance drop 10% from its value with current
- Measure Equipment :  
L & Q : Agilent HP4291A/Agilent HP4285A+Agilent HP16197A  
SRF : Agilent HP4291A  
RDC : HP4338B or Chroma 16502

## Test Instruments : Agilent HP4291A Material/Impedance Analyzer

### Typical L vs. Frequency



### Typical Q vs. Frequency



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# SMD Wire Wound Ferrite Chip Inductors – BWNC Series

## Electrical Characteristics

| Part Number        | Inductance<br>( $\mu$ H) | Tolerance<br>( $\pm$ %) | Q<br>Min | Test<br>Frequency<br>(MHz) | SRF<br>(MHz) Typ. | RDC<br>( $\Omega$ ) $\pm$ 30% | IDC<br>(mA) | Color Coding    |                 |                 |
|--------------------|--------------------------|-------------------------|----------|----------------------------|-------------------|-------------------------------|-------------|-----------------|-----------------|-----------------|
|                    |                          |                         |          |                            |                   |                               |             | 1 <sup>ST</sup> | 2 <sup>ND</sup> | 3 <sup>RD</sup> |
| BWNC00372926R33□00 | 0.33                     | 5 / 10 / 20             | 40       | 25.2                       | 650               | 0.07                          | 1600        | Orange          | Orange          | Brown           |
| BWNC00372926R47□00 | 0.47                     | 5 / 10                  | 40       | 25.2                       | 450               | 0.07                          | 1800        | Yellow          | Violet          | Brown           |
| BWNC003729261R0□00 | 1.0                      | 5 / 10                  | 20       | 7.96                       | 100               | 0.08                          | 1500        | Brown           | Black           | Red             |
| BWNC003729261R2□00 | 1.2                      | 5 / 10                  | 20       | 7.96                       | 90                | 0.12                          | 1400        | Brown           | Red             | Red             |
| BWNC003729261R5□00 | 1.5                      | 5 / 10                  | 20       | 7.96                       | 80                | 0.13                          | 1125        | Brown           | Green           | Red             |
| BWNC003729261R8□00 | 1.8                      | 5 / 10                  | 20       | 7.96                       | 70                | 0.13                          | 970         | Brown           | Gray            | Red             |
| BWNC003729262R2□00 | 2.2                      | 5 / 10                  | 20       | 7.96                       | 68                | 0.13                          | 970         | Red             | Red             | Red             |
| BWNC003729262R7□00 | 2.7                      | 5 / 10                  | 20       | 7.96                       | 62                | 0.15                          | 900         | Red             | Violet          | Red             |
| BWNC003729263R3□00 | 3.3                      | 5 / 10                  | 20       | 7.96                       | 54                | 0.16                          | 837         | Orange          | Orange          | Red             |
| BWNC003729264R7□00 | 4.7                      | 5 / 10                  | 20       | 7.96                       | 43                | 0.23                          | 675         | Yellow          | Violet          | Red             |
| BWNC003729265R6□00 | 5.6                      | 5 / 10                  | 20       | 7.96                       | 36                | 0.26                          | 620         | Green           | Blue            | Red             |
| BWNC003729266R8□00 | 6.8                      | 5 / 10                  | 20       | 7.96                       | 33                | 0.27                          | 600         | Blue            | Gray            | Red             |
| BWNC003729268R2□00 | 8.2                      | 5 / 10                  | 20       | 7.96                       | 30                | 0.32                          | 580         | Gray            | Red             | Red             |
| BWNC00372926100□00 | 10                       | 5 / 10                  | 15       | 2.52                       | 28                | 0.36                          | 520         | Brown           | Black           | Orange          |
| BWNC00372926120□00 | 12                       | 5 / 10                  | 15       | 2.52                       | 25                | 0.50                          | 500         | Brown           | Red             | Orange          |
| BWNC00372926150□00 | 15                       | 5 / 10                  | 15       | 2.52                       | 19                | 0.56                          | 480         | Brown           | Green           | Orange          |
| BWNC00372926180□00 | 18                       | 5 / 10                  | 15       | 2.52                       | 17                | 0.67                          | 330         | Brown           | Gray            | Orange          |
| BWNC00372926220□00 | 22                       | 5 / 10                  | 15       | 2.52                       | 16                | 0.77                          | 310         | Red             | Red             | Orange          |
| BWNC00372926270□00 | 27                       | 5 / 10                  | 15       | 2.52                       | 13                | 1.00                          | 280         | Red             | Violet          | Orange          |
| BWNC00372926330□00 | 33                       | 5 / 10                  | 15       | 2.52                       | 12                | 1.10                          | 270         | Orange          | Orange          | Orange          |
| BWNC00372926390□00 | 39                       | 5 / 10                  | 15       | 2.52                       | 11                | 1.40                          | 220         | Orange          | White           | Orange          |
| BWNC00372926470□00 | 47                       | 5 / 10                  | 15       | 2.52                       | 10                | 1.64                          | 210         | Yellow          | Violet          | Orange          |
| BWNC00372926560□00 | 56                       | 5 / 10                  | 15       | 2.52                       | 9                 | 2.49                          | 189         | Green           | Blue            | Orange          |
| BWNC00372926680□00 | 68                       | 5 / 10                  | 15       | 2.52                       | 9                 | 2.80                          | 189         | Blue            | Gray            | Orange          |
| BWNC00372926820□00 | 82                       | 5 / 10                  | 15       | 2.52                       | 6                 | 3.00                          | 145         | Gray            | Red             | Orange          |
| BWNC00372926101□00 | 100                      | 5 / 10                  | 15       | 0.796                      | 6                 | 3.70                          | 145         | Brown           | Black           | Yellow          |
| BWNC00372926151□00 | 150                      | 5 / 10                  | 15       | 0.796                      | 5                 | 6.10                          | 120         | Brown           | Green           | Yellow          |
| BWNC00372926181□00 | 180                      | 5 / 10                  | 15       | 0.796                      | 4                 | 8.00                          | 105         | Brown           | Gray            | Yellow          |
| BWNC00372926221□00 | 220                      | 5 / 10                  | 15       | 0.796                      | 4                 | 8.40                          | 100         | Red             | Red             | Yellow          |
| BWNC00372926331□00 | 330                      | 5 / 10                  | 15       | 0.796                      | 3.5               | 12.3                          | 80          | Orange          | Orange          | Yellow          |
| BWNC00372926391□00 | 390                      | 5 / 10                  | 15       | 0.796                      | 2.8               | 17.6                          | 75          | Orange          | White           | Yellow          |
| BWNC00372926471□00 | 470                      | 5 / 10                  | 15       | 0.796                      | 2.8               | 22.0                          | 75          | Yellow          | Violet          | Yellow          |
| BWNC00372926561□00 | 560                      | 5 / 10                  | 15       | 0.796                      | 2.5               | 23.0                          | 65          | Green           | Blue            | Yellow          |
| BWNC00372926681□00 | 680                      | 5 / 10                  | 15       | 0.796                      | 2                 | 28.0                          | 65          | Blue            | Gray            | Yellow          |

**Note: When ordering, please specify tolerance code. Tolerance : J= $\pm$ 5% , K= $\pm$ 10%**

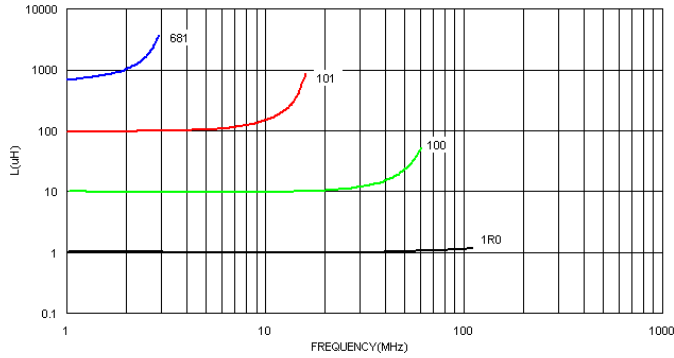
- Operating temperature range – 40°C ~ 105°C (Including self - temperature rise)
- IDC for Inductance drop 10% from its value with current
- Measure Equipment :  
L & Q : Agilent HP4291A(over 1MHz)/Agilent HP4285A+Agilent HP16197A (under 1MHz)  
SRF : Agilent HP4291A  
RDC : HP4338B or Chroma 16502

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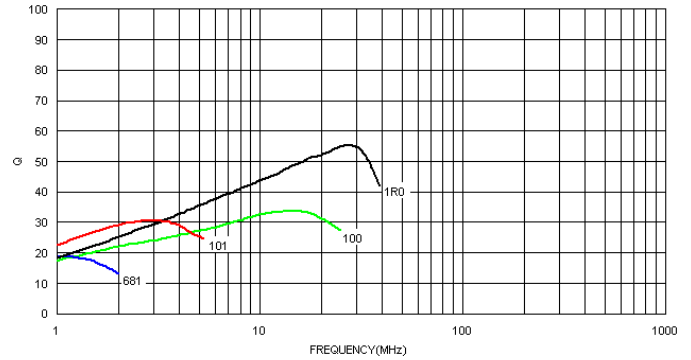
# SMD Wire Wound Ferrite Chip Inductors - BWNC Series

Test Instruments : Agilent HP4291A Material/Impedance Analyzer

Typical **L** vs. **F** Frequency

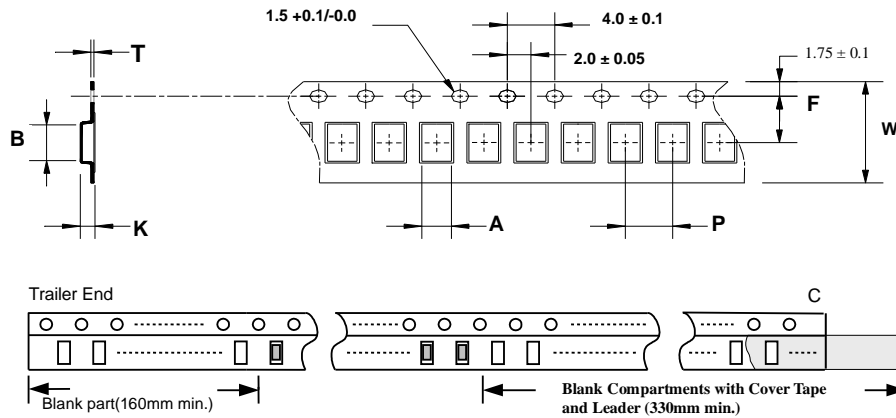


Typical **Q** vs. **F** Frequency

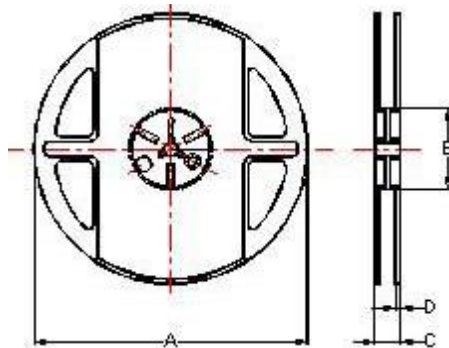


## Packaging Specifications

### Tape Dimensions



### Reel Dimensions



Dimensions in mm

| TYPE         | Tape Dimensions |      |      |   |   |     |      | Reel Dimensions |    |    |     | Quantity<br>PCS / Reel |
|--------------|-----------------|------|------|---|---|-----|------|-----------------|----|----|-----|------------------------|
|              | A               | B    | T    | W | P | F   | K    | A               | B  | C  | D   |                        |
| BWNC00292522 | 2.40            | 2.93 | 0.26 | 8 | 4 | 3.5 | 2.25 | 178             | 60 | 12 | 1.5 | 2000                   |
| BWNC00372926 | 2.85            | 3.58 | 0.25 | 8 | 4 | 3.5 | 2.53 | 178             | 60 | 16 | 1.4 | 2000                   |

单击下面可查看定价，库存，交付和生命周期等信息

[>>CHILISIN\(奇力新\)](#)