

# SMD Wire Wound Ferrite Chip Inductors

BWLS Series



BWLS Series is the newest in open type ferrite wire wound chip inductors. The wire wound ferrite construction supports higher SRF, lower DCR and superior Q values than other ferrite chip inductors.

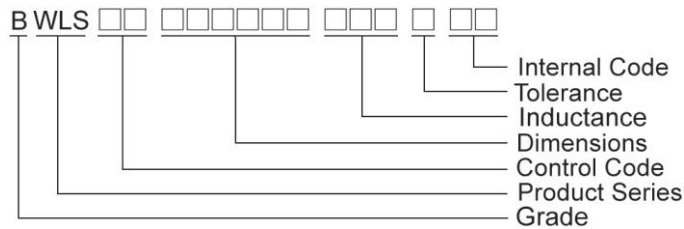
## Features

- RoHS compliant
- Very strong solderability by reflow soldering and soldering iron
- Highly accurate dimensions
- Can be mounted automatically
- Terminals are highly resistant to external forces
- Highly resistant to mechanical shocks and pressure
- Highly reliable in environments of sudden temperature change and humidity
- Low DCR & better Q value in ferrite series

## Applications

- Telecom and datacom applications such as xDSL
- Cable modem
- Set-top box
- CATV filter/tuner
- Wireless LAN, etc

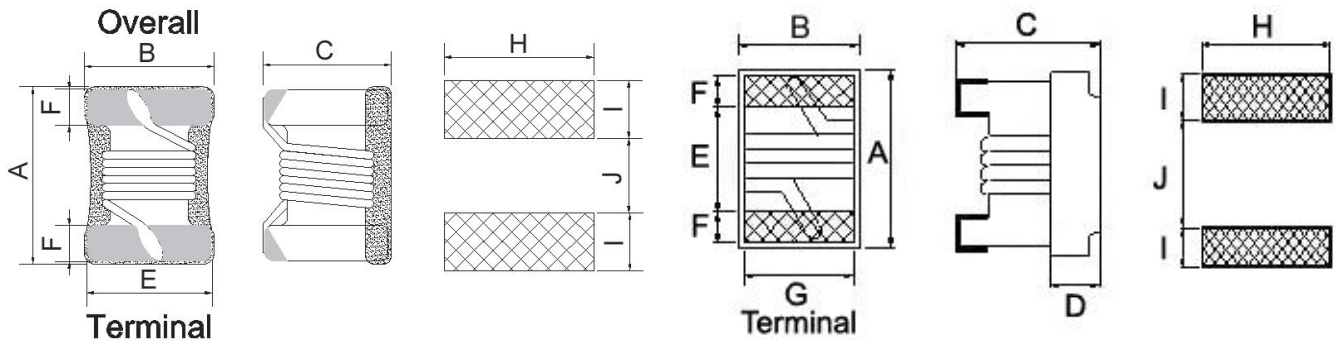
## Product Identification



## Shape and Dimensions / Recommended Pattern

**BWLS00060404**

**BWLS00100606/161109/241715/302522**



Dimensions in mm

| TYPE         | A Max                               | B Max    | C Max                               | D    | E    | F    | G    | H    | I    | J    |
|--------------|-------------------------------------|----------|-------------------------------------|------|------|------|------|------|------|------|
| BWLS00060404 | 0.58                                | 0.46     | 0.45                                | -    | 0.38 | 0.12 | -    | 0.46 | 0.18 | 0.22 |
| BWLS00100606 | 1.02±0.1                            | 0.55±0.1 | 0.56±0.1                            | 0.25 | 0.54 | 0.23 | 0.50 | 0.65 | 0.38 | 0.44 |
| BWLS00161109 | 1.6 <sup>+0.2</sup> <sub>-0.1</sub> | 1.1±0.1  | 0.9 <sup>+0.2</sup> <sub>-0.1</sub> | 0.38 | 0.86 | 0.33 | 0.76 | 1.02 | 0.64 | 0.64 |
| BWLS00241715 | 2.4                                 | 1.72     | 1.52                                | 0.70 | 1.02 | 0.50 | 1.27 | 1.78 | 1.02 | 0.76 |
| BWLS00302522 | 2.99                                | 2.50     | 2.20                                | 0.70 | 1.52 | 0.51 | 2.03 | 2.54 | 1.02 | 1.27 |

## Electrical Characteristics

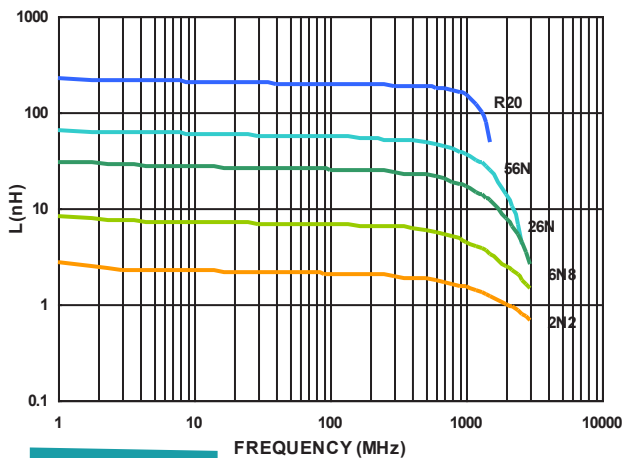
| Part Number        | Inductance (nH) | Tolerance (±%) | Test Frequency (MHz) | Q Typ. | SRF (MHz)Min. | RDC (Ω)Max. | Irms (mA)Typ. |
|--------------------|-----------------|----------------|----------------------|--------|---------------|-------------|---------------|
| BWLS000604042N2□00 | 2.2             | 10             | 100                  | 5      | 3000          | 0.09        | 1600          |
| BWLS000604046N8□00 | 6.8             | 10 / 5         | 100                  | 6      | 2400          | 0.11        | 950           |
| BWLS000604047N8□00 | 7.8             | 10 / 5         | 100                  | 7      | 2500          | 0.11        | 1050          |
| BWLS0006040415N□00 | 15              | 10 / 5         | 100                  | 7      | 2300          | 0.12        | 750           |
| BWLS0006040417N□00 | 17              | 10 / 5         | 100                  | 7      | 2400          | 0.13        | 750           |
| BWLS0006040426N□00 | 26              | 10 / 5         | 100                  | 7      | 2200          | 0.20        | 750           |
| BWLS0006040428N□00 | 28              | 10 / 5         | 100                  | 7      | 2400          | 0.2.        | 700           |
| BWLS0006040439N□00 | 39              | 10 / 5         | 100                  | 7      | 2300          | 0.24        | 580           |
| BWLS0006040443N□00 | 43              | 10 / 5         | 100                  | 7      | 2200          | 0.24        | 600           |
| BWLS0006040456N□00 | 56              | 10 / 5         | 100                  | 7      | 2200          | 0.26        | 550           |
| BWLS0006040459N□00 | 59              | 10 / 5         | 100                  | 7      | 2200          | 0.26        | 500           |
| BWLS0006040476N□00 | 76              | 10 / 5         | 100                  | 7      | 2000          | 0.30        | 500           |
| BWLS0006040478N□00 | 78              | 10 / 5         | 100                  | 7      | 2000          | 0.30        | 500           |
| BWLS00060404R10□00 | 100             | 10 / 5         | 100                  | 7      | 1500          | 0.41        | 430           |
| BWLS00060404R13□00 | 130             | 10 / 5         | 100                  | 7      | 1500          | 0.44        | 400           |
| BWLS00060404R16□00 | 160             | 10 / 5         | 100                  | 7      | 1400          | 0.71        | 350           |
| BWLS00060404R20□00 | 200             | 10 / 5         | 50                   | 9      | 1400          | 0.95        | 260           |

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

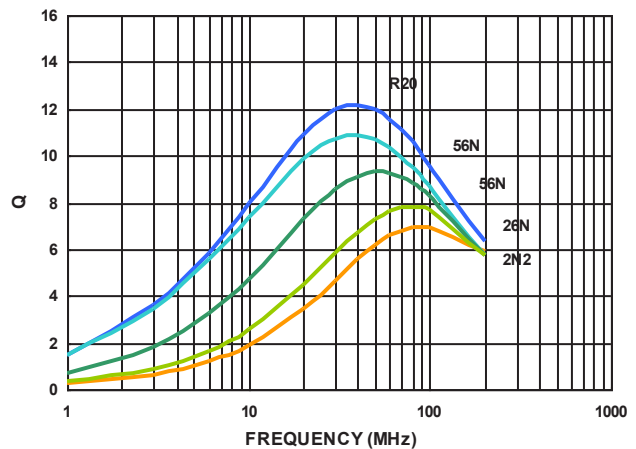
- Operating temperature range - 25°C ~ 105°C(Including self - temperature rise)
- I<sub>rms</sub> for a 15°C temperature rise from 25°C ambient with current
- Measure Equipment :  
 L & Q : Agilent E4991A+Agilent HP16197A  
 SRF : Agilent E4991A  
 RDC : HP4287  
 I<sub>rms</sub> : HP4284A+HP42841A

**Test Instruments** : Agilent E4991A Material/Impedance Analyzer

**Typical L vs. Frequency**



**Typical Q vs. Frequency**



## Electrical Characteristics

| Part Number        | Inductance<br>( $\mu$ H) | Tolerance<br>( $\pm$ %) | Test Frequency<br>(MHz) | Q<br>Typ. | SRF<br>(MHz)Typ. | RDC<br>( $\Omega$ ) Max | Irms<br>(mA)Typ. |
|--------------------|--------------------------|-------------------------|-------------------------|-----------|------------------|-------------------------|------------------|
| BWLS0010060618N□00 | 0.018                    | 10 / 5                  | 100                     | 10        | 2600             | 0.055                   | 1600             |
| BWLS0010060620N□00 | 0.020                    | 10 / 5                  | 100                     | 10        | 2600             | 0.050                   | 1600             |
| BWLS0010060622N□00 | 0.022                    | 10                      | 100                     | 10        | 2500             | 0.072                   | 1300             |
| BWLS0010060633N□00 | 0.033                    | 10 / 5                  | 100                     | 10        | 2300             | 0.060                   | 1400             |
| BWLS0010060636N□00 | 0.036                    | 10 / 5                  | 100                     | 10        | 2300             | 0.092                   | 1000             |
| BWLS0010060639N□00 | 0.039                    | 10 / 5                  | 100                     | 10        | 2200             | 0.150                   | 830              |
| BWLS0010060651N□00 | 0.051                    | 10                      | 100                     | 10        | 1930             | 0.070                   | 1100             |
| BWLS0010060656N□00 | 0.056                    | 10                      | 100                     | 10        | 1900             | 0.125                   | 900              |
| BWLS0010060672N□00 | 0.072                    | 10 / 5                  | 100                     | 10        | 1650             | 0.100                   | 900              |
| BWLS0010060678N□00 | 0.078                    | 10 / 5                  | 100                     | 10        | 1600             | 0.190                   | 850              |
| BWLS00100606R10□00 | 0.10                     | 10                      | 100                     | 9         | 1400             | 0.160                   | 900              |
| BWLS00100606R14□00 | 0.14                     | 10 / 5                  | 50                      | 11        | 1220             | 0.260                   | 540              |
| BWLS00100606R18□00 | 0.18                     | 10                      | 50                      | 11        | 1150             | 0.330                   | 560              |
| BWLS00100606R20□00 | 0.20                     | 10 / 5                  | 50                      | 11        | 1000             | 0.440                   | 400              |
| BWLS00100606R22□00 | 0.22                     | 10 / 5                  | 50                      | 11        | 1150             | 0.530                   | 380              |
| BWLS00100606R25□00 | 0.25                     | 10 / 5                  | 25                      | 11        | 900              | 0.360                   | 520              |
| BWLS00100606R27□00 | 0.27                     | 10                      | 25                      | 11        | 860              | 0.550                   | 360              |
| BWLS00100606R30□00 | 0.30                     | 10 / 5                  | 25                      | 11        | 860              | 0.410                   | 420              |
| BWLS00100606R33□00 | 0.33                     | 10 / 5                  | 7.9                     | 11        | 820              | 0.680                   | 350              |
| BWLS00100606R36□00 | 0.36                     | 10 / 5                  | 7.9                     | 11        | 810              | 0.575                   | 360              |
| BWLS00100606R39□00 | 0.39                     | 10 / 5                  | 7.9                     | 11        | 760              | 0.890                   | 300              |
| BWLS00100606R42□00 | 0.42                     | 10 / 5                  | 7.9                     | 11        | 700              | 1.100                   | 340              |
| BWLS00100606R47□00 | 0.47                     | 10                      | 7.9                     | 11        | 650              | 0.730                   | 310              |
| BWLS00100606R56□00 | 0.56                     | 10 / 5                  | 7.9                     | 11        | 600              | 1.100                   | 200              |

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

- Operating temperature range - 25°C ~ 105°C(Including self - temperature rise)
- Irms for a 15°C temperature rise from 25°C ambient with current
- Measure Equipment :  
L & Q : Agilent E4991A+Agilent HP16197A  
SRF : Agilent E4991A  
RDC : Chroma 16502  
Irms : HP4284A+HP42841A

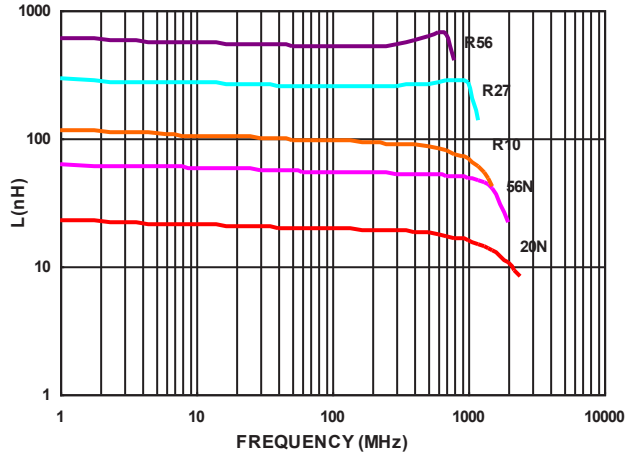
# SMD Wire Wound Ferrite Chip Inductors

BWLS Series

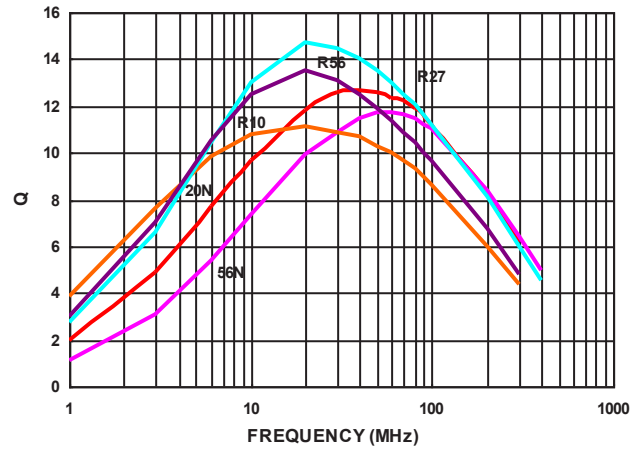


Test Instruments : Agilent E4991A Material/Impedance Analyzer

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



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



## Electrical Characteristics

| Part Number        | Inductance<br>( $\mu$ H) | Tolerance<br>( $\pm$ %) | Test Frequency<br>(MHz) | Q<br>Typ. | SRF<br>(MHz) Min | RDC<br>( $\Omega$ ) Max | IDC<br>(mA) | Color  |
|--------------------|--------------------------|-------------------------|-------------------------|-----------|------------------|-------------------------|-------------|--------|
| BWLS0016110947N□00 | 0.047                    | 10 / 5                  | 7.9                     | 17        | 1700             | 0.075                   | 1500        | Black  |
| BWLS0016110972N□00 | 0.072                    | 10 / 5                  | 7.9                     | 17        | 1700             | 0.12                    | 1500        | Brown  |
| BWLS00161109R10□00 | 0.10                     | 10 / 5                  | 7.9                     | 17        | 1650             | 0.13                    | 1500        | Red    |
| BWLS00161109R12□00 | 0.12                     | 10 / 5                  | 7.9                     | 17        | 1350             | 0.15                    | 1500        | Orange |
| BWLS00161109R15□00 | 0.15                     | 10 / 5                  | 7.9                     | 17        | 1350             | 0.15                    | 1450        | Yellow |
| BWLS00161109R18□00 | 0.18                     | 10 / 5                  | 7.9                     | 17        | 1150             | 0.15                    | 1400        | Green  |
| BWLS00161109R22□00 | 0.22                     | 10 / 5                  | 7.9                     | 17        | 1050             | 0.16                    | 1350        | Blue   |
| BWLS00161109R24□00 | 0.24                     | 10 / 5                  | 7.9                     | 17        | 1050             | 0.19                    | 1300        | Violet |
| BWLS00161109R27□00 | 0.27                     | 10 / 5                  | 7.9                     | 17        | 1050             | 0.30                    | 1050        | Gray   |
| BWLS00161109R33□00 | 0.33                     | 10 / 5                  | 7.9                     | 17        | 850              | 0.46                    | 1200        | White  |
| BWLS00161109R39□00 | 0.39                     | 10 / 5                  | 7.9                     | 17        | 810              | 0.51                    | 1200        | Black  |
| BWLS00161109R47□00 | 0.47                     | 10 / 5                  | 7.9                     | 17        | 720              | 0.62                    | 1050        | Brown  |
| BWLS00161109R56□00 | 0.56                     | 10 / 5                  | 7.9                     | 17        | 600              | 0.44                    | 850         | Red    |
| BWLS00161109R68□00 | 0.68                     | 10 / 5                  | 7.9                     | 17        | 600              | 0.52                    | 850         | Orange |
| BWLS00161109R78□00 | 0.78                     | 10 / 5                  | 7.9                     | 17        | 460              | 0.83                    | 850         | Yellow |
| BWLS00161109R82□00 | 0.82                     | 10 / 5                  | 7.9                     | 17        | 480              | 0.69                    | 750         | Green  |
| BWLS00161109R91□00 | 0.91                     | 10 / 5                  | 7.9                     | 17        | 330              | 0.76                    | 670         | Black  |
| BWLS001611091R0□00 | 1.0                      | 10 / 5                  | 7.9                     | 18        | 310              | 0.81                    | 600         | Blue   |
| BWLS001611091R2□00 | 1.2                      | 10 / 5                  | 7.9                     | 17        | 270              | 0.87                    | 550         | Violet |
| BWLS001611091R5□00 | 1.5                      | 10 / 5                  | 7.9                     | 17        | 270              | 1.06                    | 540         | Gray   |
| BWLS001611091R8□00 | 1.8                      | 10 / 5                  | 7.9                     | 17        | 230              | 1.10                    | 520         | White  |
| BWLS001611092R2□00 | 2.2                      | 10 / 5                  | 7.9                     | 17        | 140              | 1.20                    | 500         | Black  |
| BWLS001611092R7□00 | 2.7                      | 10 / 5                  | 7.9                     | 17        | 105              | 1.50                    | 480         | Brown  |
| BWLS001611093R3□00 | 3.3                      | 10 / 5                  | 7.9                     | 17        | 84               | 1.50                    | 440         | Red    |
| BWLS001611093R9□00 | 3.9                      | 10 / 5                  | 7.9                     | 17        | 80               | 1.60                    | 430         | Orange |
| BWLS001611094R7□00 | 4.7                      | 10 / 5                  | 7.9                     | 18        | 69               | 2.10                    | 420         | Yellow |
| BWLS001611095R6□00 | 5.6                      | 10 / 5                  | 7.9                     | 18        | 65               | 2.60                    | 400         | Green  |
| BWLS001611096R8□00 | 6.8                      | 10 / 5                  | 7.9                     | 19        | 55               | 3.10                    | 400         | Blue   |
| BWLS001611097R8□00 | 7.8                      | 10 / 5                  | 7.9                     | 17        | 47               | 3.50                    | 400         | Violet |
| BWLS001611098R2□00 | 8.2                      | 10 / 5                  | 7.9                     | 17        | 42               | 3.80                    | 400         | Gray   |

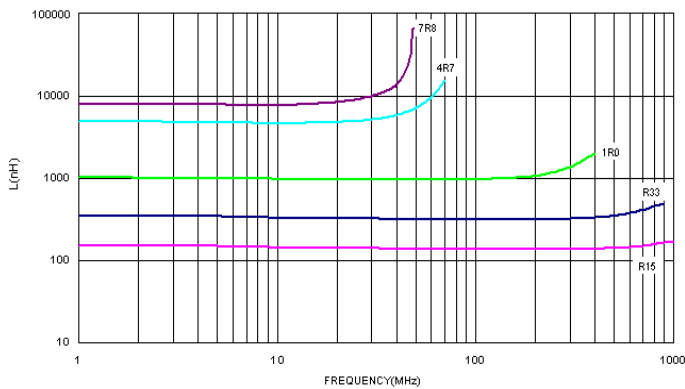
|                    |    |        |     |    |    |      |     |       |
|--------------------|----|--------|-----|----|----|------|-----|-------|
| BWLS00161109100□00 | 10 | 10 / 5 | 7.9 | 19 | 40 | 4.80 | 300 | White |
|--------------------|----|--------|-----|----|----|------|-----|-------|

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

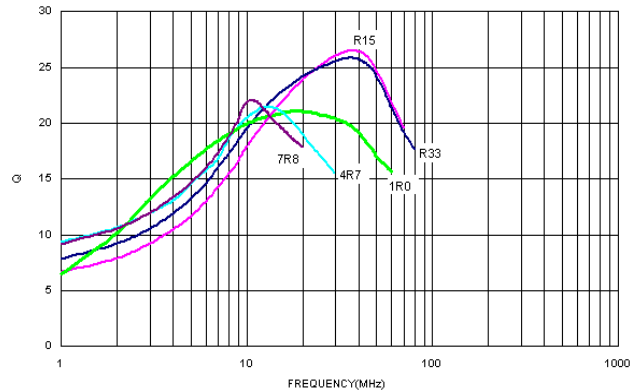
- Operating temperature range - 25°C ~ 105°C(Including self - temperature rise)
- IDC for Inductance drop 10% from its value without current
- Measure Equipment :  
 L & Q : Agilent E4991A+Agilent HP16197A  
 SRF : Agilent HP8753D/Agilent E4991A  
 RDC : Chroma 16502  
 IDC : HP4284A+HP42841A/HP4285A+HP42841A

**Test Instruments :** Agilent E4991A Material/Impedance Analyzer

**Typical L vs. Frequency**



**Typical Q vs. Frequency**



## Electrical Characteristics

| Part Number        | Inductance (uH) | Tolerance (±%) | Test Frequency (MHz) | Q Typ. | SRF (MHz) Min | RDC (Ω) Max | IDC (mA) | Color  |
|--------------------|-----------------|----------------|----------------------|--------|---------------|-------------|----------|--------|
| BWLS0024171578N□00 | 0.078           | 10 / 5         | 7.9                  | 19     | 1440          | 0.06        | 2000     | Black  |
| BWLS0024171590N□00 | 0.090           | 10             | 7.9                  | 19     | 1200          | 0.07        | 2000     | Red    |
| BWLS00241715R11□00 | 0.11            | 10 / 5         | 7.9                  | 19     | 1200          | 0.07        | 2000     | Brown  |
| BWLS00241715R47□00 | 0.47            | 10 / 5         | 7.9                  | 19     | 480           | 0.40        | 800      | Red    |
| BWLS00241715R56□00 | 0.56            | 10 / 5         | 7.9                  | 35     | 480           | 0.40        | 800      | Yellow |
| BWLS00241715R68□00 | 0.68            | 10 / 5         | 7.9                  | 20     | 480           | 0.40        | 800      | Orange |
| BWLS00241715R91□00 | 0.91            | 10 / 5         | 7.9                  | 20     | 400           | 0.69        | 700      | Yellow |
| BWLS002417151R0□00 | 1.0             | 10 / 5         | 7.9                  | 20     | 400           | 0.69        | 700      | Yellow |
| BWLS002417151R2□00 | 1.2             | 10 / 5         | 7.9                  | 20     | 330           | 0.83        | 700      | Red    |
| BWLS002417151R5□00 | 1.5             | 10 / 5         | 7.9                  | 20     | 330           | 0.83        | 700      | Green  |
| BWLS002417151R8□00 | 1.8             | 10 / 5         | 7.9                  | 20     | 300           | 1.00        | 650      | Blue   |
| BWLS002417152R2□00 | 2.2             | 10 / 5         | 7.9                  | 20     | 250           | 1.10        | 650      | Violet |
| BWLS002417152R7□00 | 2.7             | 10 / 5         | 7.9                  | 23     | 200           | 1.25        | 650      | Gray   |
| BWLS002417153R3□00 | 3.3             | 10 / 5         | 7.9                  | 23     | 160           | 1.45        | 650      | White  |
| BWLS002417153R9□00 | 3.9             | 10 / 5         | 7.9                  | 23     | 90            | 1.50        | 600      | Black  |
| BWLS002417154R7□00 | 4.7             | 10 / 5         | 7.9                  | 20     | 70            | 1.60        | 530      | Brown  |
| BWLS002417155R6□00 | 5.6             | 10 / 5         | 7.9                  | 20     | 65            | 1.70        | 500      | Red    |
| BWLS002417156R8□00 | 6.8             | 10 / 5         | 7.9                  | 20     | 45            | 1.95        | 470      | Orange |
| BWLS002417158R2□00 | 8.2             | 10 / 5         | 2.5                  | 16     | 45            | 2.10        | 450      | Yellow |
| BWLS00241715100□00 | 10              | 10 / 5         | 2.5                  | 16     | 40            | 2.40        | 400      | Green  |
| BWLS00241715120□00 | 12              | 10 / 5         | 2.5                  | 16     | 38            | 3.20        | 360      | Red    |
| BWLS00241715150□00 | 15              | 10 / 5         | 2.5                  | 16     | 30            | 3.55        | 350      | Blue   |
| BWLS00241715180□00 | 18              | 10 / 5         | 2.5                  | 16     | 25            | 4.90        | 300      | Orange |
| BWLS00241715220□00 | 22              | 10 / 5         | 2.5                  | 16     | 20            | 5.45        | 270      | Violet |
| BWLS00241715270□00 | 27              | 10 / 5         | 2.5                  | 16     | 19            | 7.80        | 240      | Gray   |
| BWLS00241715330□00 | 33              | 10 / 5         | 2.5                  | 16     | 16            | 9.50        | 210      | White  |
| BWLS00241715470□00 | 47              | 10 / 5         | 2.5                  | 16     | 15            | 14.50       | 180      | Brown  |

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

- Operating temperature range - 25°C ~ 105°C(Including self - temperature rise)
- IDC for Inductance drop 10% from its value without current
- Measure Equipment :  
 L & Q : Agilent E4991A+Agilent HP16197A  
 SRF : Agilent E4991A  
 RDC : HP4338B or Chroma 16502  
 IDC : HP4284A+HP42841A/HP4285A+HP42841A

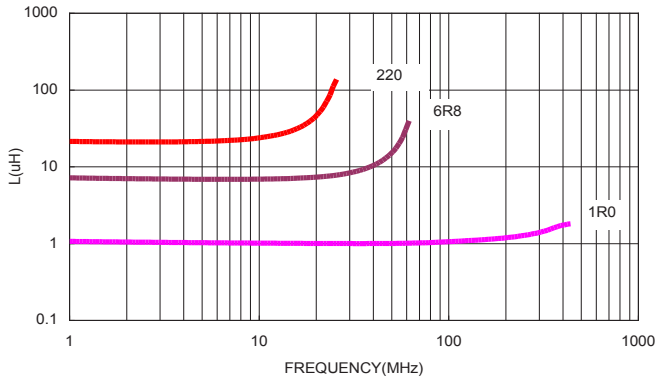
# SMD Wire Wound Ferrite Chip Inductors

BWLS Series

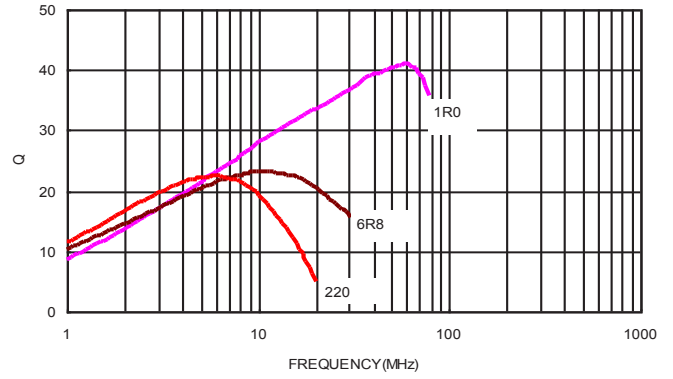


**Test Instruments** : Agilent E4991A Material/Impedance Analyzer

**Typical L vs. Frequency**



**Typical Q vs. Frequency**





## Electrical Characteristics

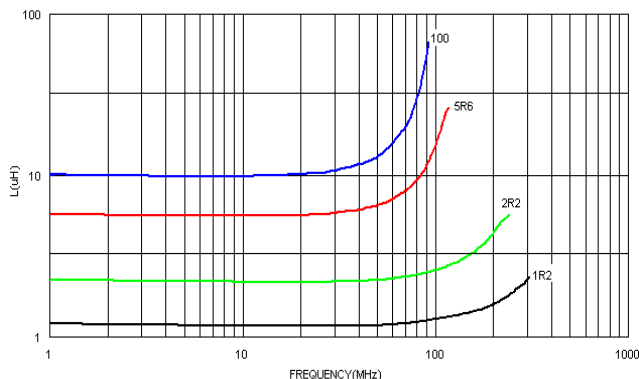
| Part Number        | Inductance (uH) | Tolerance (±%) | Test Frequency (MHz) | Q Typ. | Test Frequency (MHz) | SRF (MHz) Min | RDC (Ω) Max | IDC (mA) | Color Coding    |                 |                 |
|--------------------|-----------------|----------------|----------------------|--------|----------------------|---------------|-------------|----------|-----------------|-----------------|-----------------|
|                    |                 |                |                      |        |                      |               |             |          | 1 <sup>ST</sup> | 2 <sup>ND</sup> | 3 <sup>RD</sup> |
| BWLS003025221R2□00 | 1.2             | 10 / 5         | 7.9                  | 55     | 50                   | 350           | 0.50        | 1200     | Brown           | Red             | Red             |
| BWLS003025221R5□00 | 1.5             | 10 / 5         | 7.9                  | 58     | 50                   | 300           | 0.65        | 1200     | Brown           | Green           | Red             |
| BWLS003025221R8□00 | 1.8             | 10 / 5         | 7.9                  | 54     | 50                   | 280           | 0.75        | 1050     | Brown           | Gray            | Red             |
| BWLS003025222R2□00 | 2.2             | 10 / 5         | 7.9                  | 48     | 50                   | 250           | 0.90        | 950      | Red             | Red             | Red             |
| BWLS003025222R7□00 | 2.7             | 10 / 5         | 7.9                  | 51     | 50                   | 200           | 1.00        | 950      | Red             | Violet          | Red             |
| BWLS003025223R3□00 | 3.3             | 10 / 5         | 7.9                  | 58     | 50                   | 200           | 1.15        | 900      | Orange          | Orange          | Red             |
| BWLS003025223R9□00 | 3.9             | 10 / 5         | 7.9                  | 37     | 7.9                  | 170           | 1.25        | 850      | Orange          | White           | Red             |
| BWLS003025224R7□00 | 4.7             | 10 / 5         | 7.9                  | 37     | 7.9                  | 130           | 1.35        | 700      | Yellow          | Violet          | Red             |
| BWLS003025225R6□00 | 5.6             | 10 / 5         | 7.9                  | 36     | 7.9                  | 110           | 1.45        | 700      | Green           | Blue            | Red             |
| BWLS003025226R8□00 | 6.8             | 10 / 5         | 7.9                  | 33     | 7.9                  | 105           | 1.60        | 600      | Blue            | Gray            | Red             |
| BWLS003025228R2□00 | 8.2             | 10 / 5         | 7.9                  | 40     | 7.9                  | 90            | 1.80        | 550      | Gray            | Red             | Red             |
| BWLS00302522100□00 | 10              | 10 / 5         | 7.9                  | 40     | 7.9                  | 85            | 2.40        | 500      | Brown           | Black           | Orange          |
| BWLS00302522120□00 | 12              | 10 / 5         | 7.9                  | 40     | 7.9                  | 80            | 2.40        | 450      | Brown           | Red             | Orange          |
| BWLS00302522150□00 | 15              | 10 / 5         | 7.9                  | 35     | 7.9                  | 38            | 2.40        | 450      | Brown           | Green           | Orange          |
| BWLS00302522390□00 | 39              | 10 / 5         | 2.5                  | 33     | 2.5                  | 26            | 10          | 170      | Orange          | White           | Orange          |

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

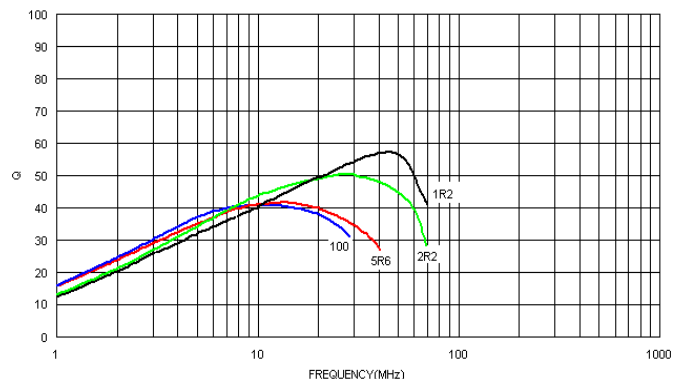
- Operating temperature range - 25°C ~ 105°C(Including self - temperature rise)
- IDC for Inductance drop 10% from its value without current
- Measure Equipment :
  - L & Q : Agilent E4991A+Agilent HP16197A
  - SRF : Agilent E4991A
  - RDC : HP4338B or Chroma 16502
  - IDC : HP4284A+HP42841A/HP4285A+HP42841A

**Test Instruments : Agilent E4991A Material/Impedance Analyzer**

**Typical L vs. Frequency**



**Typical Q vs. Frequency**



## Packaging Specifications

### Tape Dimensions

Figure 1

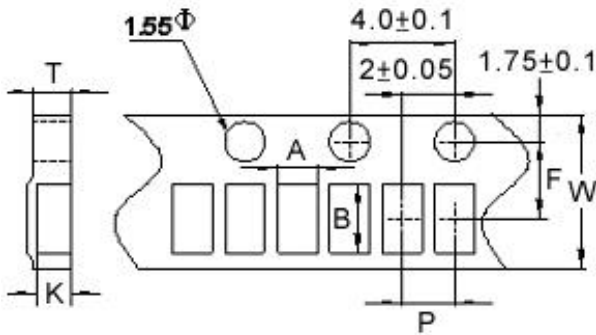
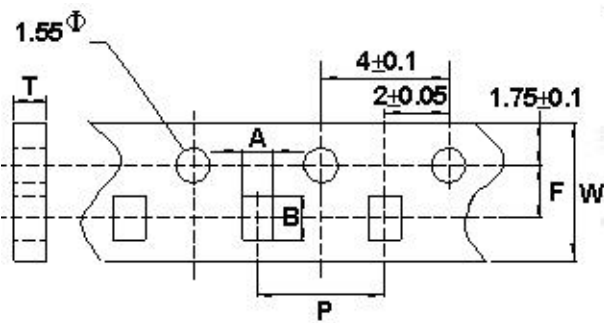
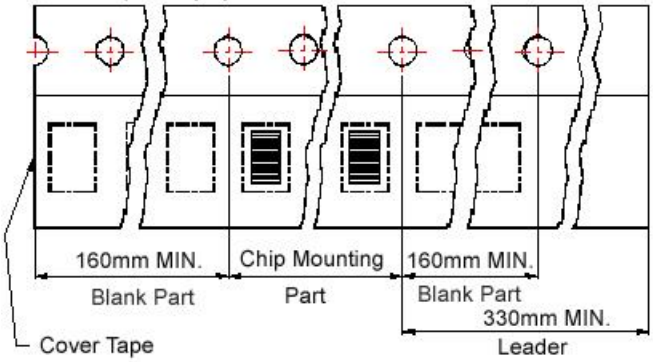


Figure 2



### Tape Material

Carrier Tape: Paper  
Cover Tape: Polystyrene



Carrier Tape: Paper  
Cover Tape: Polystyrene

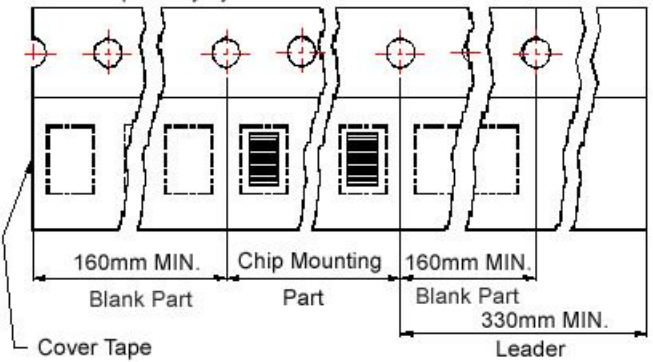
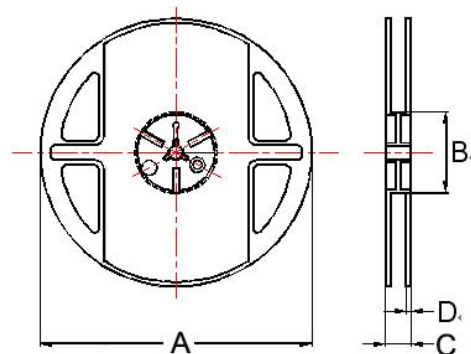
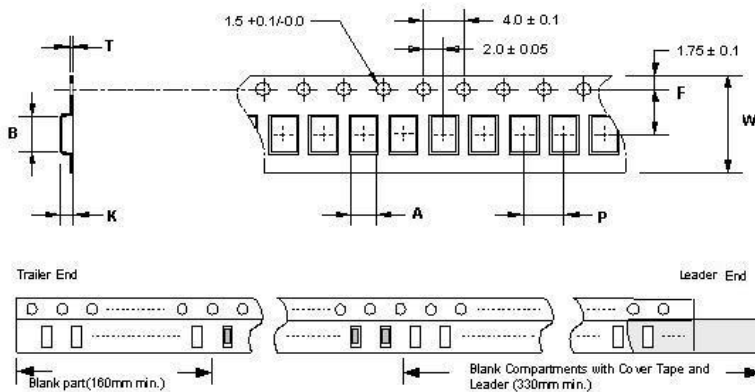


Figure 3

### Reel Dimensions



# SMD Wire Wound Ferrite Chip Inductors

BWLS Series



## Dimensions in mm

| TYPE         | Fig. | Tape Dimensions |      |      |   |   |     |      | Reel Dimensions |    |    |     | Quantity   |
|--------------|------|-----------------|------|------|---|---|-----|------|-----------------|----|----|-----|------------|
|              |      | A               | B    | T    | W | P | F   | K    | A               | B  | C  | D   | PCS / REEL |
| BWLS00060404 | 1    | 0.44            | 0.64 | 0.61 | 8 | 2 | 3.5 | 045  | 178             | 60 | 12 | 1.5 | 4000       |
| BWLS00100606 | 1    | 0.67            | 1.20 | 0.75 | 8 | 2 | 3.5 | 0.59 | 178             | 60 | 12 | 1.5 | 4000       |
| BWLS00161109 | 2    | 1.25            | 1.90 | 1.05 | 8 | 4 | 3.5 | -    | 178             | 60 | 12 | 1.5 | 4000       |
| BWLS00241715 | 3    | 1.60            | 2.42 | 0.22 | 8 | 4 | 3.5 | 1.45 | 178             | 60 | 12 | 1.5 | 2000       |
| BWLS00302522 | 3    | 2.40            | 2.93 | 0.26 | 8 | 4 | 3.5 | 2.25 | 178             | 60 | 12 | 1.5 | 2000       |

## For More Information:

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