

BWCS Series



Due to accurate wire winding technology, these chip inductors are designed for filtering, impedance matching, resonance and choke circuits for RF designer. Both standard series custom designs are available.

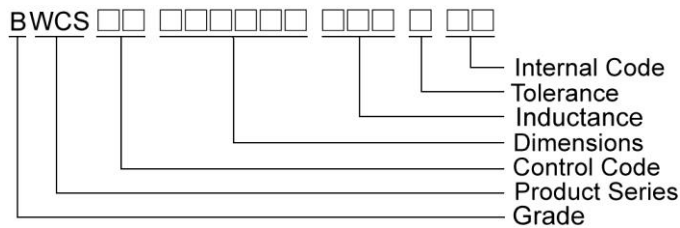
Features

- RoHS Compliant
- Ceramic body and wire wound construction provide high SRFs
- Exceptional Q values even at high frequencies
- Highest possible SRFs as well as excellent Q values
- The non-magnetic coil form assures utmost thermal stability, predictability and batch consistency
- CS series is standard for RF designers

Applications

- RF products for cellular phone
- GPS receiver
- Base Station
- Repeater
- Wireless LAN/ mouse/ keyboard/ earphone
- Remote control
- Security system and other RF modules

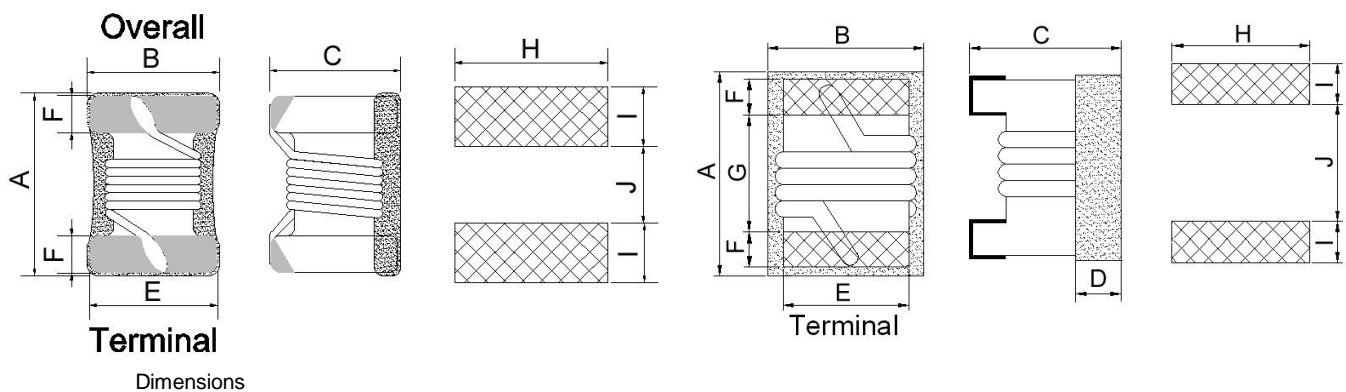
Product Identification



Shape and Dimensions / Recommended Pattern

BWCS00060404

BWCS00120707

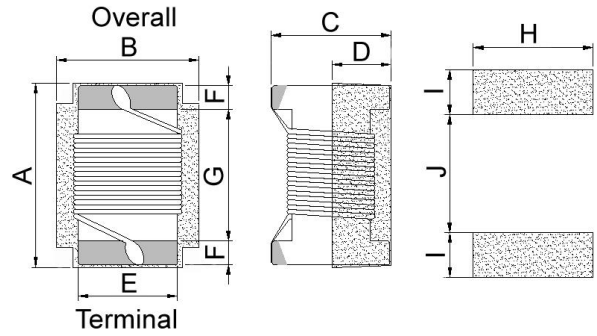
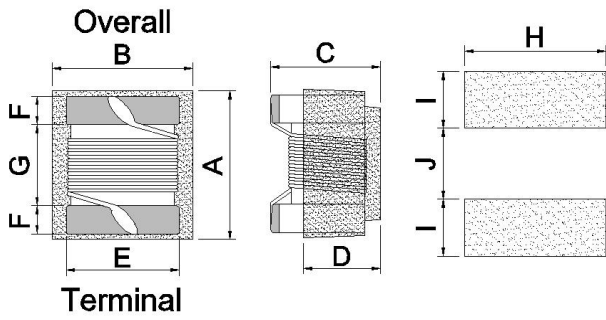


| | | A Max | B Max | C Max | D | E | F | G | H | I | J |
|---------------------|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| BWCS00060404 | inch | 0.023 | 0.018 | 0.018 | - | 0.015 | 0.004 | - | 0.018 | 0.007 | 0.009 |
| | mm | 0.58 | 0.46 | 0.45 | - | 0.38 | 0.1 | - | 0.46 | 0.18 | 0.23 |
| BWCS00120707 | inch | 0.047 | 0.025 | 0.026 | 0.010 | 0.020 | 0.009 | 0.022 | 0.026 | 0.014 | 0.018 |
| | mm | 1.19 | 0.64 | 0.66 | 0.25 | 0.51 | 0.23 | 0.56 | 0.66 | 0.36 | 0.46 |

SMD Wire Wound Ceramic Chip Inductors - BWCS Series

BWCS00161008/ 231715/ 292821

BWCS00493834



Dimensions

| | | A | B | C | D | E | F | G | H | I | J |
|---------------------|------|-------------------------------------|----------|--------------------------------------|-------|-------|-------|-------|-------|-------|-------|
| BWCS00161008 | mm | 1.6 ^{+0.2} _{-0.1} | 1.02±0.1 | 0.82 ^{+0.2} _{-0.1} | 0.51 | 0.76 | 0.33 | 0.86 | 1.02 | 0.64 | 0.64 |
| | | A Max | B Max | C Max | D | E | F | G | H | I | J |
| BWCS00231715 | inch | 0.093 | 0.068 | 0.06 | 0.028 | 0.050 | 0.020 | 0.040 | 0.070 | 0.040 | 0.030 |
| | mm | 2.35 | 1.73 | 1.52 | 0.71 | 1.27 | 0.51 | 1.02 | 1.78 | 1.02 | 0.76 |
| BWCS00292821 | inch | 0.115 | 0.110 | 0.083 | 0.046 | 0.080 | 0.020 | 0.060 | 0.100 | 0.040 | 0.050 |
| | mm | 2.92 | 2.79 | 2.1 | 1.16 | 2.03 | 0.51 | 1.52 | 2.54 | 1.02 | 1.27 |
| BWCS00493834 | inch | 0.197 | 0.154 | 0.135 | 0.07 | 0.1 | 0.025 | 0.128 | 0.12 | 0.045 | 0.118 |
| | mm | 4.95 | 3.81 | 3.43 | 1.78 | 2.54 | 0.64 | 3.25 | 3.05 | 1.14 | 3.00 |

SMD Wire Wound Ceramic Chip Inductors - BWCS Series

Electrical Characteristics

| Part Number | Inductance (nH) | Tolerance (±%) | Test Frequency (MHz) | Q Min | SRF (GHz) Typ | RDC (Ω) Max | Irms (mA) Typ |
|--------------------|--------------------|-------------------|----------------------------|----------|------------------|----------------|------------------|
| BWCS000604040N5□00 | 0.5 | 10 | 250 | 4 | 23.5 | 0.02 | 1250 |
| BWCS000604040N6□00 | 0.6 | 10 | 250 | 6 | 24.5 | 0.03 | 1000 |
| BWCS000604041N2□00 | 1.2 | 5 | 250 | 13 | 17.9 | 0.042 | 870 |
| BWCS000604041N3□00 | 1.3 | 5 | 250 | 11 | 17.6 | 0.048 | 820 |
| BWCS000604041N4□00 | 1.4 | 5 | 250 | 14 | 17 | 0.08 | 630 |
| BWCS000604041N5□00 | 1.5 | 5 | 250 | 11 | 17 | 0.09 | 600 |
| BWCS000604042N2□00 | 2.2 | 5 | 250 | 15 | 16.7 | 0.07 | 700 |
| BWCS000604042N3□00 | 2.3 | 5 | 250 | 18 | 16.5 | 0.07 | 670 |
| BWCS000604042N4□00 | 2.4 | 5 | 250 | 13 | 13 | 0.082 | 620 |
| BWCS000604042N5□00 | 2.5 | 5 | 250 | 16 | 12.5 | 0.165 | 440 |
| BWCS000604043N3□00 | 3.3 | 5 | 250 | 14 | 12.8 | 0.08 | 630 |
| BWCS000604043N4□00 | 3.4 | 5 | 250 | 11 | 12.7 | 0.08 | 630 |
| BWCS000604043N5□00 | 3.5 | 5 | 250 | 16 | 12.4 | 0.08 | 630 |
| BWCS000604043N6□00 | 3.6 | 5 | 250 | 18 | 12.5 | 0.105 | 550 |
| BWCS000604043N7□00 | 3.7 | 5 | 250 | 15 | 10.6 | 0.105 | 550 |
| BWCS000604043N8□00 | 3.8 | 5 | 250 | 16 | 10.2 | 0.18 | 420 |
| BWCS000604043N9□00 | 3.9 | 5 | 250 | 12 | 11.2 | 0.24 | 360 |
| BWCS000604044N8□00 | 4.8 | 5 | 250 | 17 | 11 | 0.096 | 570 |
| BWCS000604044N9□00 | 4.9 | 5 | 250 | 18 | 11.7 | 0.13 | 510 |
| BWCS000604045N0□00 | 5.0 | 5 | 250 | 18 | 11.5 | 0.13 | 510 |
| BWCS000604045N1□00 | 5.1 | 5 | 250 | 18 | 11.1 | 0.13 | 510 |
| BWCS000604045N2□00 | 5.2 | 5 | 250 | 18 | 10 | 0.17 | 430 |
| BWCS000604045N3□00 | 5.3 | 5 | 250 | 18 | 10.6 | 0.13 | 510 |
| BWCS000604045N4□00 | 5.4 | 5 | 250 | 18 | 10.2 | 0.13 | 510 |
| BWCS000604045N5□00 | 5.5 | 5 | 250 | 16 | 9.5 | 0.285 | 330 |
| BWCS000604046N7□00 | 6.7 | 5 | 250 | 18 | 6.8 | 0.15 | 460 |
| BWCS000604046N8□00 | 6.8 | 5 | 250 | 18 | 9.5 | 0.15 | 460 |
| BWCS000604046N9□00 | 6.9 | 5 | 250 | 18 | 9.3 | 0.15 | 460 |
| BWCS000604047N0□00 | 7.0 | 5 | 250 | 18 | 6.7 | 0.21 | 390 |
| BWCS000604047N1□00 | 7.1 | 5 | 250 | 18 | 9.5 | 0.25 | 390 |
| BWCS000604047N2□00 | 7.2 | 5 | 250 | 18 | 9.4 | 0.25 | 390 |
| BWCS000604047N3□00 | 7.3 | 5 | 250 | 18 | 9.3 | 0.25 | 390 |

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

- Operating temperature range—40°C ~ 125°C (Including self - temperature rise)
- Irms for a 15°C temperature rise from 25°C ambient with current
- Measure Equipment :
 L & Q : HP4286A/HP4287A/AgilentE4991/Keysight E4982A
 SRF : Agilent HP8753D/Agilent HP8722ES
 RDC : HP4287A
 Irms : HP4284A+HP42841A/HP4285A+HP42841A

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SMD Wire Wound Ceramic Chip Inductors - BWCS Series

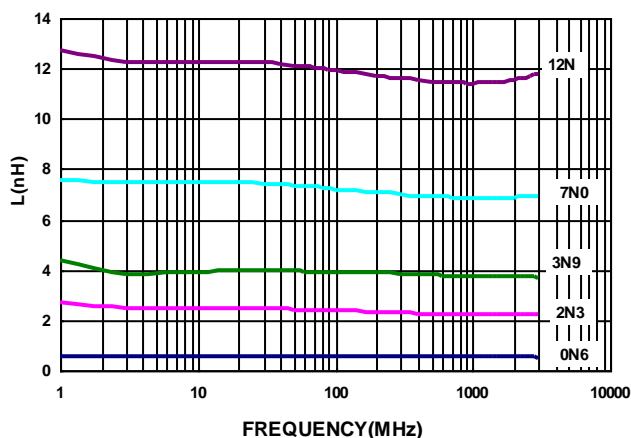
Electrical Characteristics

| Part Number | Inductance (nH) | Tolerance (±%) | Test Frequency (MHz) | Q Min | SRF (GHz) Typ | RDC (Ω) Max | Irms (mA) Typ |
|--------------------|-----------------|----------------|----------------------|-------|---------------|-------------|---------------|
| BWCS000604047N4□00 | 7.4 | 5 | 250 | 18 | 9.1 | 0.25 | 390 |
| BWCS000604047N5□00 | 7.5 | 5 | 250 | 15 | 6.8 | 0.34 | 300 |
| BWCS000604047N6□00 | 7.6 | 5 | 250 | 17 | 9.3 | 0.3 | 340 |
| BWCS000604047N7□00 | 7.7 | 5 | 250 | 17 | 9.2 | 0.3 | 340 |
| BWCS000604047N8□00 | 7.8 | 5 | 250 | 17 | 9.2 | 0.3 | 340 |
| BWCS000604047N9□00 | 7.9 | 5 | 250 | 17 | 9.1 | 0.3 | 340 |
| BWCS000604048N0□00 | 8.0 | 5 | 250 | 17 | 9.2 | 0.3 | 340 |
| BWCS000604048N1□00 | 8.1 | 5 | 250 | 17 | 9.1 | 0.3 | 340 |
| BWCS000604048N2□00 | 8.2 | 5 | 250 | 17 | 6.4 | 0.27 | 340 |
| BWCS000604048N4□00 | 8.4 | 5 | 250 | 15 | 8.9 | 0.38 | 300 |
| BWCS000604048N5□00 | 8.5 | 5 | 250 | 15 | 8.9 | 0.38 | 300 |
| BWCS000604048N7□00 | 8.7 | 5 | 250 | 15 | 6.3 | 0.38 | 300 |
| BWCS000604049N0□00 | 9.0 | 5 | 250 | 15 | 6.4 | 0.38 | 300 |
| BWCS000604049N4□00 | 9.4 | 5 | 250 | 16 | 6.4 | 0.4 | 280 |
| BWCS000604049N6□00 | 9.6 | 5 | 250 | 16 | 6.2 | 0.4 | 280 |
| BWCS0006040411N□00 | 11 | 5 | 250 | 16 | 5.7 | 0.44 | 280 |
| BWCS0006040412N□00 | 12 | 5 | 250 | 17 | 5.6 | 0.36 | 300 |
| BWCS0006040413N□00 | 13 | 5 | 250 | 16 | 6.7 | 0.5 | 270 |
| BWCS0006040414N□00 | 14 | 5 | 250 | 16 | 5.1 | 0.5 | 270 |

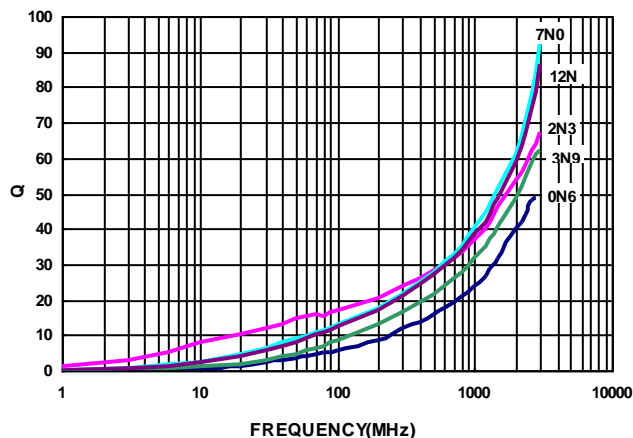
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- Operating temperature range – 40°C ~ 125°C (Including self - temperature rise)
- I_{rms} for a 15°C temperature rise from 25°C ambient with current
- Measure Equipment :
 L & Q : HP4286A/HP4287A/AgilentE4991/Keysight E4982A
 SRF : Agilent HP8753D/Agilent HP8722ES
 RDC : HP4287A
 I_{rms} : HP4284A+HP42841A/HP4285A+HP42841A

Typical L vs. Frequency



Typical Q vs. Frequency



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Electrical Characteristics

| Part Number | Inductance (nH) | Tolerance (±%) | Test Frequency (MHz) | Q Min | SRF (GHz) Min | RDC (Ω) Max | Irms (mA) Max |
|--------------------|-----------------|-----------------|----------------------|-------|---------------|-------------|---------------|
| BWCS001207071N0□00 | 1.0 | 10 / 5 / ±0.1nH | 250 | 16 | 12.7 | 0.045 | 1360 |
| BWCS001207071N2□00 | 1.2 | 10 / 5 / ±0.1nH | 250 | 10 | 10.4 | 0.140 | 640 |
| BWCS001207071N3□00 | 1.3 | 10 / ±0.1nH | 250 | 10 | 10.4 | 0.140 | 640 |
| BWCS001207071N9□00 | 1.9 | 10 / 5 / ±0.1nH | 250 | 16 | 11.3 | 0.070 | 1040 |
| BWCS001207072N0□00 | 2.0 | 10 / 5 / ±0.1nH | 250 | 16 | 11.1 | 0.070 | 1040 |
| BWCS001207072N2□00 | 2.2 | 10 / 5 / ±0.1nH | 250 | 19 | 10.8 | 0.070 | 960 |
| BWCS001207072N4□00 | 2.4 | 10 / 5 / ±0.1nH | 250 | 15 | 10.5 | 0.068 | 790 |
| BWCS001207072N5□00 | 2.5 | 10 / 5 / ±0.1nH | 250 | 13 | 10.4 | 0.150 | 640 |
| BWCS001207072N7□00 | 2.7 | 10 / 5 / ±0.1nH | 250 | 16 | 10.4 | 0.120 | 640 |
| BWCS001207073N3□00 | 3.3 | 10 / 5 / 3 | 250 | 19 | 7.00 | 0.066 | 840 |
| BWCS001207073N6□00 | 3.6 | 10 / 5 / 3 | 250 | 19 | 6.80 | 0.066 | 840 |
| BWCS001207073N9□00 | 3.9 | 10 / 5 / 3 | 250 | 19 | 6.00 | 0.066 | 840 |
| BWCS001207074N3□00 | 4.3 | 10 / 5 / 3 | 250 | 18 | 6.00 | 0.091 | 700 |
| BWCS001207074N7□00 | 4.7 | 10 / 5 / 3 | 250 | 15 | 4.77 | 0.130 | 640 |
| BWCS001207075N1□00 | 5.1 | 10 / 5 / 3 | 250 | 20 | 4.80 | 0.083 | 800 |
| BWCS001207075N6□00 | 5.6 | 10 / 5 / 3 | 250 | 20 | 4.80 | 0.083 | 760 |
| BWCS001207075N8□00 | 5.8 | 10 / 5 / 3 | 250 | 20 | 4.80 | 0.083 | 760 |
| BWCS001207076N2□00 | 6.2 | 10 / 5 / 3 | 250 | 20 | 4.80 | 0.083 | 760 |
| BWCS001207076N8□00 | 6.8 | 10 / 5 / 3 | 250 | 20 | 4.80 | 0.083 | 680 |
| BWCS001207077N3□00 | 7.3 | 10 / 5 / 3 | 250 | 20 | 4.80 | 0.12 | 680 |
| BWCS001207077N5□00 | 7.5 | 10 / 5 / 3 | 250 | 22 | 4.80 | 0.10 | 680 |
| BWCS001207078N2□00 | 8.2 | 10 / 5 / 3 | 250 | 22 | 4.40 | 0.10 | 680 |
| BWCS001207078N7□00 | 8.7 | 10 / 5 / 3 | 250 | 18 | 4.10 | 0.20 | 480 |
| BWCS001207079N0□00 | 9.0 | 10 / 5 / 3 | 250 | 22 | 4.16 | 0.10 | 680 |
| BWCS001207079N1□00 | 9.1 | 10 / 5 / 3 | 250 | 22 | 4.16 | 0.10 | 680 |
| BWCS001207079N5□00 | 9.5 | 10 / 5 / 3 | 250 | 18 | 4.00 | 0.20 | 480 |
| BWCS0012070710N□00 | 10 | 10 / 5 / 3 / 2 | 250 | 21 | 3.90 | 0.20 | 480 |
| BWCS0012070711N□00 | 11 | 10 / 5 / 3 / 2 | 250 | 24 | 3.68 | 0.12 | 640 |
| BWCS0012070712N□00 | 12 | 10 / 5 / 3 / 2 | 250 | 24 | 3.60 | 0.12 | 640 |
| BWCS0012070713N□00 | 13 | 10 / 5 / 3 / 2 | 250 | 24 | 3.45 | 0.21 | 440 |
| BWCS0012070715N□00 | 15 | 10 / 5 / 3 / 2 | 250 | 24 | 3.28 | 0.17 | 560 |
| BWCS0012070716N□00 | 16 | 10 / 5 / 3 / 2 | 250 | 24 | 3.10 | 0.22 | 560 |

Note: When ordering, please specify tolerance code. Tolerance : B=±0.1nH , G=±2% , H=±3% , J=±5% , K=±10%

- Operating temperature range – 40°C ~ 125°C (Including self - temperature rise)
- I_{rms} for a 15°C temperature rise from 25°C ambient with current
- Measure Equipment :
 L & Q : Agilent E4991A+Agilent HP16197A
 SRF : Agilent HP8753D/Agilent HP8722ES
 RDC : HP4287A
 I_{rms} : HP4284A+HP42841A/HP4285A+HP42841A

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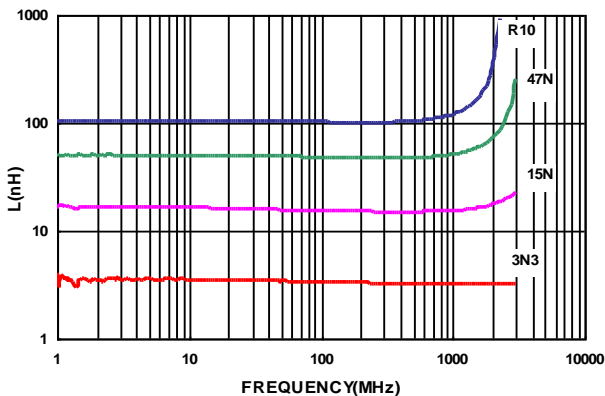
Electrical Characteristics

| Part Number | Inductance (nH) | Tolerance (±%) | Test Frequency (MHz) | Q Min | SRF (GHz) Min | RDC (Ω) Max | Irms (mA) Max |
|--------------------|-----------------|----------------|----------------------|-------|---------------|-------------|---------------|
| BWCS0012070718N□00 | 18 | 10 / 5 / 3 / 2 | 250 | 25 | 3.10 | 0.23 | 420 |
| BWCS0012070719N□00 | 19 | 10 / 5 / 3 / 2 | 250 | 24 | 3.04 | 0.20 | 480 |
| BWCS0012070720N□00 | 20 | 10 / 5 / 3 / 2 | 250 | 25 | 3.00 | 0.25 | 420 |
| BWCS0012070722N□00 | 22 | 10 / 5 / 3 / 2 | 250 | 25 | 2.80 | 0.30 | 400 |
| BWCS0012070723N□00 | 23 | 10 / 5 / 3 / 2 | 250 | 22 | 2.72 | 0.30 | 400 |
| BWCS0012070724N□00 | 24 | 10 / 5 / 3 / 2 | 250 | 25 | 2.70 | 0.30 | 400 |
| BWCS0012070727N□00 | 27 | 10 / 5 / 3 / 2 | 250 | 24 | 2.48 | 0.30 | 400 |
| BWCS0012070730N□00 | 30 | 10 / 5 / 3 / 2 | 250 | 25 | 2.35 | 0.35 | 400 |
| BWCS0012070733N□00 | 33 | 10 / 5 / 3 / 2 | 250 | 24 | 2.35 | 0.40 | 400 |
| BWCS0012070736N□00 | 36 | 10 / 5 / 3 / 2 | 250 | 24 | 2.32 | 0.44 | 320 |
| BWCS0012070739N□00 | 39 | 10 / 5 / 3 / 2 | 250 | 25 | 2.10 | 0.55 | 200 |
| BWCS0012070740N□00 | 40 | 10 / 5 / 3 / 2 | 250 | 24 | 2.24 | 0.65 | 320 |
| BWCS0012070743N□00 | 43 | 10 / 5 / 3 / 2 | 250 | 25 | 2.03 | 0.81 | 100 |
| BWCS0012070747N□00 | 47 | 10 / 5 / 3 / 2 | 250 | 20 | 2.10 | 0.83 | 150 |
| BWCS0012070751N□00 | 51 | 10 / 5 / 3 / 2 | 250 | 25 | 1.75 | 0.82 | 100 |
| BWCS0012070756N□00 | 56 | 10 / 5 / 3 / 2 | 250 | 22 | 1.76 | 0.97 | 100 |
| BWCS0012070768N□00 | 68 | 10 / 5 / 3 / 2 | 250 | 22 | 1.62 | 1.12 | 100 |
| BWCS0012070782N□00 | 82 | 10 / 5 / 3 / 2 | 250 | 20 | 1.26 | 1.55 | 50 |
| BWCS00120707R10□00 | 100 | 10 / 5 / 3 / 2 | 250 | 20 | 1.16 | 2.00 | 30 |
| BWCS00120707R18□00 | 180 | 10 / 5 / 3 / 2 | 100 | 8 | 0.70 | 2.70 | 50 |
| BWCS00120707R22□00 | 220 | 10 / 5 / 3 / 2 | 100 | 8 | 0.70 | 4.00 | 50 |

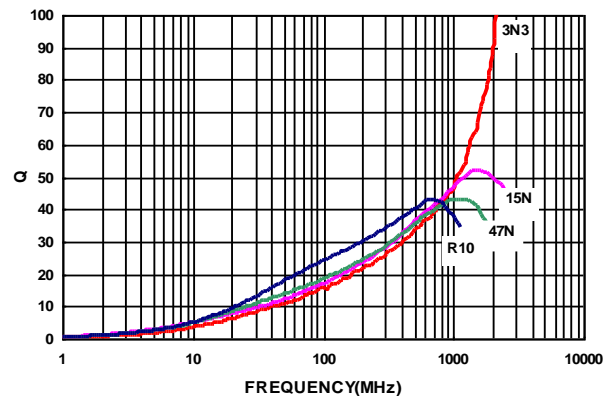
Note: When ordering, please specify tolerance code. Tolerance : B=±0.1nH , G=±2% , H=±3% , J=±5% , K=±10%

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 SRF : Agilent HP8753D/Agilent HP8722ES
 RDC : HP4287A
 Irms : HP4284A+HP42841A/HP4285A+HP42841A

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



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



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SMD Wire Wound Ceramic Chip Inductors – BWCS Series

Electrical Characteristics

| Part Number | Inductance (nH) | Tolerance (±%) | Test Frequency (MHz) | Q Min | SRF (MHz) Min | RDC (Ω) Max | I _{rms} (mA) Max | Color |
|--------------------|-----------------|-----------------|----------------------|-------|---------------|-------------|---------------------------|--------|
| BWCS001610081N6□00 | 1.6 | 10 / 5 / ±0.1nH | 250 | 24 | 12500 | 0.030 | 700 | Red |
| BWCS001610081N8□00 | 1.8 | 10 / 5 / ±0.1nH | 250 | 16 | 12500 | 0.045 | 700 | Black |
| BWCS001610082N2□00 | 2.2 | 10 / 5 / ±0.1nH | 250 | 13 | 12500 | 0.250 | 700 | Yellow |
| BWCS001610083N3□00 | 3.3 | 10 / 5 / 3 / 2 | 250 | 35 | 5900 | 0.045 | 700 | Blue |
| BWCS001610083N6□00 | 3.6 | 10 / 5 / 3 / 2 | 250 | 22 | 5900 | 0.063 | 700 | Red |
| BWCS001610083N9□00 | 3.9 | 10 / 5 / 3 / 2 | 250 | 22 | 6900 | 0.080 | 700 | Brown |
| BWCS001610084N3□00 | 4.3 | 10 / 5 / 3 / 2 | 250 | 22 | 5900 | 0.063 | 700 | Orange |
| BWCS001610084N7□00 | 4.7 | 10 / 5 / 3 / 2 | 250 | 20 | 5800 | 0.116 | 700 | Violet |
| BWCS001610085N1□00 | 5.1 | 10 / 5 / 3 / 2 | 250 | 20 | 5700 | 0.140 | 700 | Green |
| BWCS001610085N6□00 | 5.6 | 10 / 5 / 3 / 2 | 250 | 20 | 5800 | 0.170 | 700 | Yellow |
| BWCS001610086N3□00 | 6.3 | 10 / 5 / 3 / 2 | 250 | 20 | 5700 | 0.140 | 700 | White |
| BWCS001610086N8□00 | 6.8 | 10 / 5 / 3 / 2 | 250 | 27 | 5800 | 0.110 | 700 | Red |
| BWCS001610087N5□00 | 7.5 | 10 / 5 / 3 / 2 | 250 | 28 | 4800 | 0.106 | 700 | Brown |
| BWCS001610088N2□00 | 8.2 | 10 / 5 / 3 / 2 | 250 | 28 | 4700 | 0.109 | 700 | White |
| BWCS001610088N7□00 | 8.7 | 10 / 5 / 3 / 2 | 250 | 28 | 4600 | 0.109 | 700 | Yellow |
| BWCS001610089N1□00 | 9.1 | 10 / 5 / 3 / 2 | 250 | 28 | 4800 | 0.120 | 700 | Violet |
| BWCS001610089N5□00 | 9.5 | 10 / 5 / 3 / 2 | 250 | 28 | 5400 | 0.135 | 700 | Blue |
| BWCS0016100810N□00 | 10 | 10 / 5 / 3 / 2 | 250 | 31 | 4800 | 0.130 | 700 | Orange |
| BWCS0016100811N□00 | 11 | 10 / 5 / 3 / 2 | 250 | 33 | 4000 | 0.086 | 700 | Gray |
| BWCS0016100812N□00 | 12 | 10 / 5 / 3 / 2 | 250 | 35 | 4000 | 0.130 | 700 | Yellow |
| BWCS0016100813N□00 | 13 | 10 / 5 / 3 / 2 | 250 | 30 | 4000 | 0.160 | 700 | Black |
| BWCS0016100815N□00 | 15 | 10 / 5 / 3 / 2 | 250 | 35 | 4000 | 0.170 | 700 | Green |
| BWCS0016100816N□00 | 16 | 10 / 5 / 3 / 2 | 250 | 34 | 3300 | 0.104 | 700 | White |
| BWCS0016100818N□00 | 18 | 10 / 5 / 3 / 2 | 250 | 35 | 3100 | 0.170 | 700 | Blue |
| BWCS0016100820N□00 | 20 | 10 / 5 / 3 / 2 | 250 | 38 | 3000 | 0.190 | 700 | Red |
| BWCS0016100822N□00 | 22 | 10 / 5 / 3 / 2 | 250 | 38 | 3000 | 0.190 | 700 | Violet |
| BWCS0016100823N□00 | 23 | 10 / 5 / 3 / 2 | 250 | 38 | 2850 | 0.190 | 700 | Orange |
| BWCS0016100824N□00 | 24 | 10 / 5 / 3 / 2 | 250 | 37 | 2650 | 0.135 | 700 | Black |
| BWCS0016100827N□00 | 27 | 10 / 5 / 3 / 2 | 250 | 40 | 2800 | 0.220 | 600 | Gray |
| BWCS0016100830N□00 | 30 | 10 / 5 / 3 / 2 | 250 | 37 | 2250 | 0.144 | 600 | Brown |
| BWCS0016100833N□00 | 33 | 10 / 5 / 3 / 2 | 250 | 40 | 2300 | 0.220 | 600 | White |
| BWCS0016100836N□00 | 36 | 10 / 5 / 3 / 2 | 250 | 38 | 2080 | 0.250 | 600 | Red |
| BWCS0016100839N□00 | 39 | 10 / 5 / 3 / 2 | 250 | 40 | 2200 | 0.250 | 600 | Black |
| BWCS0016100843N□00 | 43 | 10 / 5 / 3 / 2 | 250 | 39 | 2000 | 0.280 | 600 | Orange |

Note: When ordering, please specify tolerance code. Tolerance : B=±0.1nH , G=±2% , H=±3% , J=±5% , K=±10%

- Operating temperature range – 40°C ~ 125°C (Including self - temperature rise)
- I_{rms} for a 15°C temperature rise from 25°C ambient with current
- Measure Equipment :

L & Q : Agilent E4991A+Agilent HP16197A

SRF : Agilent HP8753D/Agilent E4991A

RDC : Chroma 16502

I_{rms} : HP4284A+HP42841A/HP4285A+HP42841A

Please be sure to request approval specifications that provide further details of the products. Kindly note 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 Chilisin approval. Please contact our sales department before

SMD Wire Wound Ceramic Chip Inductors – BWCS Series

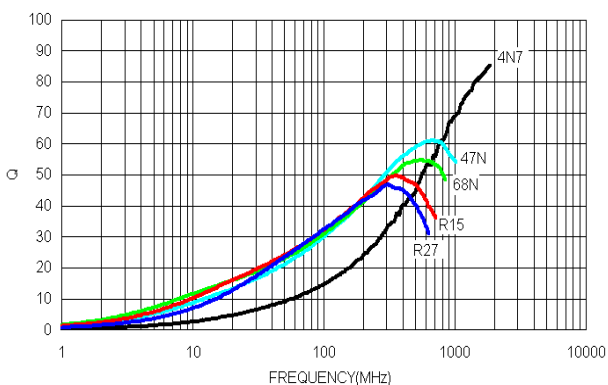
Electrical Characteristics

| Part Number | Inductance (nH) | Tolerance (±%) | Test Frequency (MHz) | Q Min | SRF (MHz) Min | RDC (Ω) Max | Irms (mA) Max | Color |
|--------------------|-----------------|----------------|----------------------|-------|---------------|-------------|---------------|--------|
| BWCS0016100847N□00 | 47 | 10 / 5 / 3 / 2 | 200 | 38 | 2000 | 0.280 | 600 | Brown |
| BWCS0016100851N□00 | 51 | 10 / 5 / 3 / 2 | 200 | 38 | 1900 | 0.310 | 600 | Brown |
| BWCS0016100856N□00 | 56 | 10 / 5 / 3 / 2 | 200 | 38 | 1900 | 0.310 | 600 | Red |
| BWCS0016100868N□00 | 68 | 10 / 5 / 3 / 2 | 200 | 37 | 1700 | 0.340 | 600 | Orange |
| BWCS0016100872N□00 | 72 | 10 / 5 / 3 / 2 | 150 | 34 | 1700 | 0.490 | 400 | Yellow |
| BWCS0016100882N□00 | 82 | 10 / 5 / 3 / 2 | 150 | 34 | 1700 | 0.540 | 400 | Green |
| BWCS0016100891N□00 | 91 | 10 / 5 / 3 / 2 | 150 | 34 | 1400 | 0.580 | 400 | Black |
| BWCS00161008R10□00 | 100 | 10 / 5 / 3 / 2 | 150 | 34 | 1400 | 0.580 | 400 | Blue |
| BWCS00161008R11□00 | 110 | 10 / 5 / 3 / 2 | 150 | 32 | 1350 | 0.610 | 300 | Violet |
| BWCS00161008R12□00 | 120 | 10 / 5 / 3 / 2 | 150 | 32 | 1300 | 0.750 | 300 | Gray |
| BWCS00161008R15□00 | 150 | 10 / 5 / 3 / 2 | 150 | 28 | 990 | 0.920 | 280 | White |
| BWCS00161008R16□00 | 160 | 10 / 5 / 3 / 2 | 100 | 25 | 990 | 1.250 | 240 | Yellow |
| BWCS00161008R18□00 | 180 | 10 / 5 / 3 / 2 | 100 | 25 | 990 | 1.250 | 240 | Black |
| BWCS00161008R20□00 | 200 | 10 / 5 / 3 / 2 | 100 | 25 | 900 | 2.100 | 200 | Red |
| BWCS00161008R21□00 | 210 | 10 / 5 / 3 / 2 | 100 | 27 | 895 | 2.060 | 200 | Gray |
| BWCS00161008R22□00 | 220 | 10 / 5 / 3 / 2 | 100 | 25 | 900 | 2.100 | 200 | Brown |
| BWCS00161008R24□00 | 240 | 10 / 5 / 3 / 2 | 100 | 25 | 900 | 2.200 | 200 | Green |
| BWCS00161008R25□00 | 250 | 10 / 5 / 3 / 2 | 100 | 25 | 822 | 3.550 | 120 | Violet |
| BWCS00161008R27□00 | 270 | 10 / 5 / 3 / 2 | 100 | 24 | 900 | 2.800 | 170 | Red |
| BWCS00161008R33□00 | 330 | 10 / 5 / 3 / 2 | 100 | 25 | 900 | 3.890 | 100 | Orange |
| BWCS00161008R39□00 | 390 | 10 / 5 / 3 / 2 | 100 | 25 | 900 | 4.350 | 100 | Yellow |
| BWCS00161008R47□00 | 470 | 10 / 5 / 3 / 2 | 100 | 25 | 500 | 4.500 | 100 | Brown |
| BWCS00161008R56□00 | 560 | 10 / 5 / 3 / 2 | 100 | 23 | 460 | 4.700 | 90 | Blue |

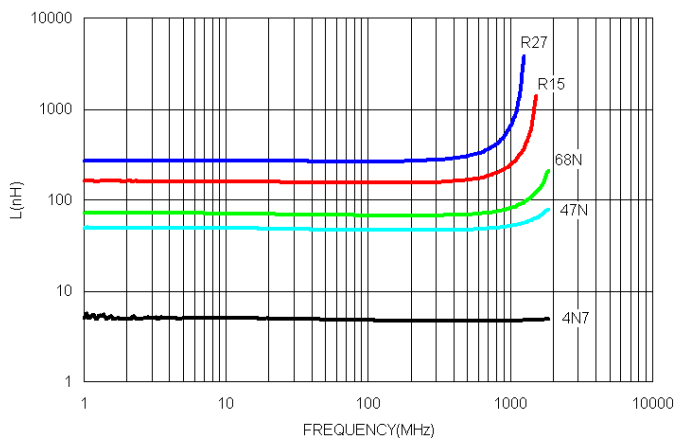
Note: When ordering, please specify tolerance code. Tolerance : B=±0.1nH , G=±2% , H=±3% , J=±5% , K=±10%

- Operating temperature range – 40°C ~ 125°C (Including self - temperature rise)
- I rms for a 15°C temperature rise from 25°C ambient with current
- Measure Equipment :
 L & Q : Agilent E4991A+Agilent HP16197A
 SRF : Agilent HP8753D/Agilent E4991A
 RDC : Chroma 16502
 I rms : HP4284A+HP42841A/HP4285A+HP42841A

Typical L vs. Frequency



Typical Q vs. Frequency



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SMD Wire Wound Ceramic Chip Inductors – BWCS Series

Electrical Characteristics

| Part Number | Inductance (nH) | Tolerance (±%) | Test Frequency (MHz) | Q Min | Test Frequency (MHz) | SRF (MHz) Min | RDC (Ω) Max | Irms (mA) Max | Color |
|--------------------|-----------------|----------------|----------------------|-------|----------------------|---------------|-------------|---------------|--------|
| BWCS002317152N7□00 | 2.7 | 10 / 5 / 2 | 250 | 50 | 1500 | 7900 | 0.06 | 800 | Yellow |
| BWCS002317152N8□00 | 2.8 | 10 / 5 / 2 | 250 | 80 | 1500 | 7900 | 0.06 | 800 | Gray |
| BWCS002317153N0□00 | 3.0 | 10 / 5 / 2 | 250 | 65 | 1500 | 7900 | 0.06 | 800 | White |
| BWCS002317153N3□00 | 3.3 | 10 / 5 / 2 | 250 | 50 | 1500 | 7900 | 0.08 | 600 | Black |
| BWCS002317155N6□00 | 5.6 | 10 / 5 / 2 | 250 | 65 | 1000 | 5500 | 0.08 | 600 | Orange |
| BWCS002317156N8□00 | 6.8 | 10 / 5 / 2 | 250 | 50 | 1000 | 5500 | 0.11 | 600 | Brown |
| BWCS002317157N5□00 | 7.5 | 10 / 5 / 2 | 250 | 50 | 1000 | 4500 | 0.14 | 600 | Green |
| BWCS002317158N2□00 | 8.2 | 10 / 5 / 2 | 250 | 50 | 1000 | 4700 | 0.12 | 600 | Red |
| BWCS0023171510N□00 | 10 | 10 / 5 / 2 | 250 | 60 | 500 | 4200 | 0.10 | 600 | Blue |
| BWCS0023171512N□00 | 12 | 10 / 5 / 2 | 250 | 50 | 500 | 4000 | 0.15 | 600 | Orange |
| BWCS0023171515N□00 | 15 | 10 / 5 / 2 | 250 | 50 | 500 | 3400 | 0.17 | 600 | Yellow |
| BWCS0023171518N□00 | 18 | 10 / 5 / 2 | 250 | 50 | 500 | 3300 | 0.20 | 600 | Green |
| BWCS0023171522N□00 | 22 | 10 / 5 / 2 | 250 | 55 | 500 | 2600 | 0.22 | 500 | Blue |
| BWCS0023171524N□00 | 24 | 10 / 5 / 2 | 250 | 50 | 500 | 2000 | 0.22 | 500 | Gray |
| BWCS0023171527N□00 | 27 | 10 / 5 / 2 | 250 | 55 | 500 | 2500 | 0.25 | 500 | Violet |
| BWCS0023171533N□00 | 33 | 10 / 5 / 2 | 250 | 60 | 500 | 2050 | 0.27 | 500 | Gray |
| BWCS0023171536N□00 | 36 | 10 / 5 / 2 | 250 | 55 | 500 | 1700 | 0.27 | 500 | Orange |
| BWCS0023171539N□00 | 39 | 10 / 5 / 2 | 250 | 60 | 500 | 2000 | 0.29 | 500 | White |
| BWCS0023171543N□00 | 43 | 10 / 5 / 2 | 200 | 60 | 500 | 1650 | 0.34 | 500 | Yellow |
| BWCS0023171547N□00 | 47 | 10 / 5 / 2 | 200 | 60 | 500 | 1650 | 0.31 | 500 | Black |
| BWCS0023171556N□00 | 56 | 10 / 5 / 2 | 200 | 60 | 500 | 1550 | 0.34 | 500 | Brown |
| BWCS0023171568N□00 | 68 | 10 / 5 / 2 | 200 | 60 | 500 | 1450 | 0.38 | 500 | Red |
| BWCS0023171582N□00 | 82 | 10 / 5 / 2 | 150 | 65 | 500 | 1300 | 0.42 | 400 | Orange |
| BWCS0023171591N□00 | 91 | 10 / 5 / 2 | 150 | 65 | 500 | 1200 | 0.48 | 400 | Black |
| BWCS00231715R10□00 | 100 | 10 / 5 / 2 | 150 | 65 | 500 | 1200 | 0.46 | 400 | Yellow |
| BWCS00231715R11□00 | 110 | 10 / 5 / 2 | 150 | 50 | 250 | 1000 | 0.48 | 400 | Brown |
| BWCS00231715R12□00 | 120 | 10 / 5 / 2 | 150 | 50 | 250 | 1100 | 0.51 | 400 | Green |
| BWCS00231715R15□00 | 150 | 10 / 5 / 2 | 100 | 50 | 250 | 920 | 0.56 | 400 | Blue |
| BWCS00231715R18□00 | 180 | 10 / 5 / 2 | 100 | 50 | 250 | 870 | 0.64 | 400 | Violet |
| BWCS00231715R20□00 | 200 | 10 / 5 / 2 | 100 | 50 | 250 | 860 | 0.68 | 400 | Red |
| BWCS00231715R22□00 | 220 | 10 / 5 / 2 | 100 | 50 | 250 | 850 | 0.70 | 400 | Gray |
| BWCS00231715R24□00 | 240 | 10 / 5 / 2 | 100 | 44 | 250 | 690 | 1.00 | 350 | Red |

Note: When ordering, please specify tolerance code. Tolerance : G=±2% , J=±5% , K=±10%

- Operating temperature range – 40°C ~ 125°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 HP8753D/Agilent E4991A
 - RDC : Chroma 16502
 - Irms : HP4284A+HP42841A/HP4285A+HP42841A

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SMD Wire Wound Ceramic Chip Inductors – BWCS Series

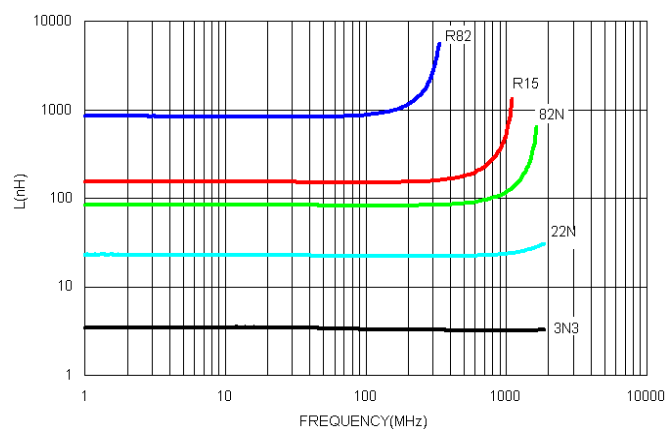
Electrical Characteristics

| Part Number | Inductance (nH) | Tolerance (±%) | Test Frequency (MHz) | Q Min | Test Frequency (MHz) | SRF (MHz) Min | RDC (Ω) Max | Irms (mA) Max | Color |
|--------------------|-----------------|----------------|----------------------|-------|----------------------|---------------|-------------|---------------|--------|
| BWCS00231715R25□00 | 250 | 10 / 5 / 2 | 100 | 45 | 250 | 660 | 1.20 | 350 | Yellow |
| BWCS00231715R27□00 | 270 | 10 / 5 / 2 | 100 | 48 | 250 | 650 | 1.00 | 350 | White |
| BWCS00231715R30□00 | 300 | 10 / 5 / 2 | 100 | 25 | 250 | 450 | 1.40 | 310 | Orange |
| BWCS00231715R33□00 | 330 | 10 / 5 / 2 | 100 | 48 | 250 | 600 | 1.40 | 310 | Black |
| BWCS00231715R39□00 | 390 | 10 / 5 / 2 | 100 | 48 | 250 | 560 | 1.50 | 290 | Brown |
| BWCS00231715R47□00 | 470 | 10 / 5 / 2 | 50 | 33 | 100 | 450 | 1.76 | 250 | Violet |
| BWCS00231715R51□00 | 510 | 10 / 5 / 2 | 25 | 23 | 50 | 340 | 1.90 | 230 | Gray |
| BWCS00231715R56□00 | 560 | 10 / 5 / 2 | 25 | 23 | 50 | 340 | 1.90 | 230 | Orange |
| BWCS00231715R62□00 | 620 | 10 / 5 / 2 | 25 | 23 | 50 | 220 | 2.20 | 210 | Yellow |
| BWCS00231715R68□00 | 680 | 10 / 5 / 2 | 25 | 23 | 50 | 188 | 2.20 | 190 | Green |
| BWCS00231715R82□00 | 820 | 10 / 5 / 2 | 25 | 23 | 50 | 215 | 2.35 | 180 | Blue |
| BWCS002317151R0□00 | 1000 | 10 / 5 / 2 | 25 | 20 | 50 | 100 | 2.50 | 170 | Gray |
| BWCS002317151R2□00 | 1200 | 10 / 5 | 7.9 | 18 | 25 | 100 | 2.50 | 170 | White |
| BWCS002317151R8□00 | 1800 | 10 / 5 / 2 | 7.9 | 16 | 7.9 | 80 | 2.50 | 170 | Orange |
| BWCS002317152R2□00 | 2200 | 10 / 5 / 2 | 7.9 | 16 | 7.9 | 65 | 3.90 | 140 | Gray |
| BWCS002317153R3□00 | 3300 | 10 / 5 / 2 | 7.9 | 15 | 7.9 | 40 | 4.40 | 90 | Red |
| BWCS002317154R7□00 | 4700 | 10 / 5 / 2 | 7.9 | 15 | 7.9 | 40 | 6.40 | 90 | Yellow |

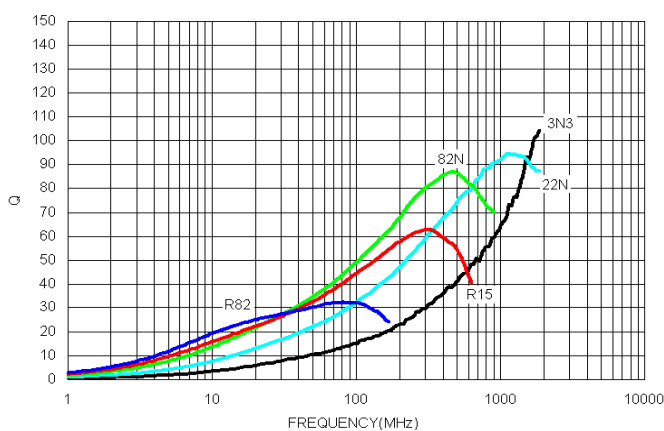
Note: When ordering, please specify tolerance code. Tolerance : G=±2% , J=±5% , K=±10%

- Operating temperature range – 40°C ~ 125°C (Including self - temperature rise)
- I_{rms} for a 15°C temperature rise from 25°C ambient with current
- Measure Equipment :
 L & Q : Agilent E4991A+Agilent HP16197A
 SRF : Agilent HP8753D/Agilent E4991A
 RDC : Chroma 16502
 I_{rms} : HP4284A+HP42841A/HP4285A+HP42841A

Typical L vs. Frequency



Typical Q vs. Frequency



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SMD Wire Wound Ceramic Chip Inductors – BWCS Series

Electrical Characteristics

| Part Number | Inductance (nH) | Tolerance (±%) | Test Frequency (MHz) | Q Min | Test Frequency (MHz) | SRF (MHz) | RDC (Ω) | I _{rms} (mA) | Color Coding | | | offset value (nH) |
|--------------------|--------------------|-------------------|----------------------------|----------|----------------------------|--------------|------------|--------------------------|-----------------|-----------------|-----------------|-------------------------|
| | | | | | | | | | 1 ST | 2 ND | 3 RD | |
| BWCS0029282110N□00 | 10 | 10 / 5 / 2 | 50 | 50 | 500 | 4100 | 0.08 | 1000 | Brown | Black | Black | -0.4 |
| BWCS0029282112N□00 | 12 | 10 / 5 / 2 | 50 | 50 | 500 | 3300 | 0.09 | 1000 | Brown | Red | Black | -0.6 |
| BWCS0029282115N□00 | 15 | 10 / 5 / 2 | 50 | 50 | 500 | 2500 | 0.10 | 1000 | Brown | Green | Black | -0.9 |
| BWCS0029282118N□00 | 18 | 10 / 5 / 2 | 50 | 50 | 350 | 2500 | 0.11 | 1000 | Brown | Gray | Black | -0.4 |
| BWCS0029282122N□00 | 22 | 10 / 5 / 2 | 50 | 55 | 350 | 2400 | 0.12 | 1000 | Red | Red | Black | -0.9 |
| BWCS0029282127N□00 | 27 | 10 / 5 / 2 | 50 | 55 | 350 | 1600 | 0.13 | 1000 | Red | Violet | Black | -1 |
| BWCS0029282133N□00 | 33 | 10 / 5 / 2 | 50 | 60 | 350 | 1600 | 0.14 | 1000 | Orange | Orange | Black | -1.3 |
| BWCS0029282139N□00 | 39 | 10 / 5 / 2 | 50 | 60 | 350 | 1500 | 0.15 | 1000 | Orange | White | Black | -1.4 |
| BWCS0029282147N□00 | 47 | 10 / 5 / 2 | 50 | 65 | 350 | 1500 | 0.16 | 1000 | Yellow | Violet | Black | -1 |
| BWCS0029282156N□00 | 56 | 10 / 5 / 2 | 50 | 65 | 350 | 1300 | 0.18 | 1000 | Green | Blue | Black | -3.5 |
| BWCS0029282168N□00 | 68 | 10 / 5 / 2 | 50 | 65 | 350 | 1300 | 0.20 | 1000 | Blue | Gray | Black | -3.5 |
| BWCS0029282182N□00 | 82 | 10 / 5 / 2 | 50 | 60 | 350 | 1000 | 0.22 | 1000 | Gray | Red | Black | -3.6 |
| BWCS00292821R10□00 | 100 | 10 / 5 / 2 | 25 | 60 | 350 | 1000 | 0.56 | 650 | Brown | Black | Brown | -6 |
| BWCS00292821R12□00 | 120 | 10 / 5 / 2 | 25 | 60 | 350 | 950 | 0.63 | 650 | Brown | Red | Brown | -5 |
| BWCS00292821R15□00 | 150 | 10 / 5 / 2 | 25 | 45 | 100 | 850 | 0.70 | 580 | Brown | Green | Brown | -5 |
| BWCS00292821R18□00 | 180 | 10 / 5 / 2 | 25 | 45 | 100 | 750 | 0.77 | 620 | Brown | Gray | Brown | -2 |
| BWCS00292821R20□00 | 200 | 10 / 5 / 2 | 25 | 45 | 100 | 700 | 0.84 | 500 | Red | Black | Brown | 0 |
| BWCS00292821R22□00 | 220 | 10 / 5 / 2 | 25 | 45 | 100 | 700 | 0.84 | 500 | Red | Red | Brown | -15 |
| BWCS00292821R27□00 | 270 | 10 / 5 / 2 | 25 | 45 | 100 | 600 | 0.91 | 500 | Red | Violet | Brown | -15 |
| BWCS00292821R33□00 | 330 | 10 / 5 / 2 | 25 | 45 | 100 | 570 | 1.05 | 450 | Orange | Orange | Brown | -20 |
| BWCS00292821R39□00 | 390 | 10 / 5 / 2 | 25 | 45 | 100 | 500 | 1.12 | 470 | Orange | White | Brown | -25 |
| BWCS00292821R47□00 | 470 | 10 / 5 / 2 | 25 | 45 | 100 | 450 | 1.19 | 470 | Yellow | Violet | Brown | -35 |
| BWCS00292821R56□00 | 560 | 10 / 5 / 2 | 25 | 45 | 100 | 415 | 1.33 | 400 | Green | Blue | Brown | -32 |
| BWCS00292821R62□00 | 620 | 10 / 5 / 2 | 25 | 45 | 100 | 375 | 1.40 | 300 | Blue | Red | Brown | -40 |
| BWCS00292821R68□00 | 680 | 10 / 5 / 2 | 25 | 45 | 100 | 375 | 1.47 | 400 | Blue | Gray | Brown | -50 |
| BWCS00292821R75□00 | 750 | 10 / 5 / 2 | 25 | 45 | 100 | 360 | 1.54 | 360 | Violet | Green | Brown | -50 |
| BWCS00292821R82□00 | 820 | 10 / 5 / 2 | 25 | 45 | 100 | 350 | 1.61 | 400 | Gray | Red | Brown | -55 |
| BWCS00292821R91□00 | 910 | 10 / 5 / 2 | 25 | 35 | 50 | 320 | 1.68 | 380 | White | Brown | Brown | -80 |
| BWCS002928211R0□00 | 1000 | 10 / 5 / 2 | 25 | 35 | 50 | 290 | 1.75 | 370 | Brown | Black | Red | -80 |
| BWCS002928211R2□00 | 1200 | 10 / 5 / 2 | 7.9 | 35 | 50 | 250 | 2.0 | 310 | Brown | Red | Red | -17.8 |
| BWCS002928211R5□00 | 1500 | 10 / 5 / 2 | 7.9 | 28 | 50 | 200 | 2.3 | 330 | Brown | Green | Red | -29.3 |
| BWCS002928211R8□00 | 1800 | 10 / 5 / 2 | 7.9 | 28 | 50 | 160 | 2.6 | 300 | Brown | Gray | Red | -42.2 |

Note: When ordering, please specify tolerance code. Tolerance : G=±2% , J=±5% , K=±10%

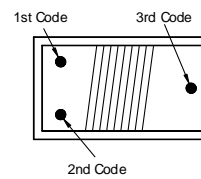
- Operating temperature range – 40°C ~ 125°C (Including self - temperature rise)
- I_{rms} for a 15°C temperature rise from 25°C ambient with current
- Measure Equipment :

L & Q : Agilent E4991A+Agilent HP16197A

SRF : Agilent HP8753D/Agilent E4991A

RDC : Chroma 16502

I_{rms} : HP4284A+HP42841A/HP4285A+HP42841A



COLOR CODING

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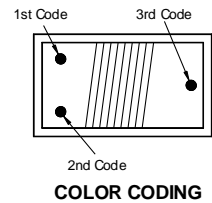
SMD Wire Wound Ceramic Chip Inductors – BWCS Series

Electrical Characteristics

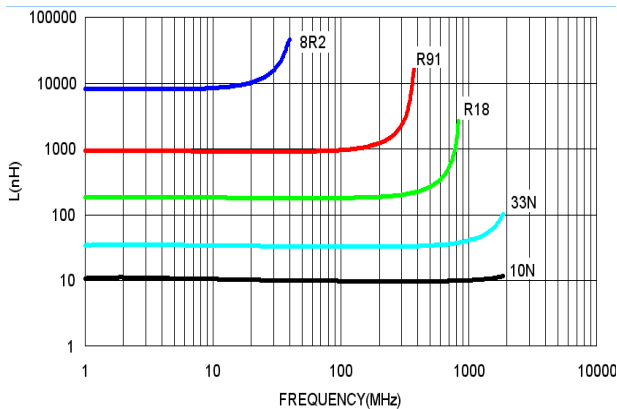
| Part Number | Inductance (nH) | Tolerance (±%) | Test Frequency (MHz) | Q Min | Test Frequency (MHz) | SRF (MHz) | RDC (Ω) | I _{rms} (mA) | Color Coding | | | offset value (nH) |
|--------------------|-----------------|----------------|----------------------|-------|----------------------|-----------|---------|-----------------------|-----------------|-----------------|-----------------|-------------------|
| | | | | | | | | | 1 ST | 2 ND | 3 RD | |
| BWCS002928212R2□00 | 2200 | 10 / 5 / 2 | 7.9 | 28 | 50 | 160 | 2.8 | 280 | Red | Red | Red | -89.6 |
| BWCS002928212R7□00 | 2700 | 10 / 5 / 2 | 7.9 | 22 | 25 | 140 | 3.2 | 290 | Red | Violet | Red | -75 |
| BWCS002928213R3□00 | 3300 | 10 / 5 / 2 | 7.9 | 22 | 25 | 110 | 3.4 | 290 | Orange | Orange | Red | -145.6 |
| BWCS002928213R9□00 | 3900 | 10 / 5 / 2 | 7.9 | 20 | 25 | 100 | 3.6 | 260 | Orange | White | Red | -155.5 |
| BWCS002928214R7□00 | 4700 | 10 / 5 / 2 | 7.9 | 20 | 25 | 90 | 4.0 | 260 | Yellow | Violet | Red | -227.7 |
| BWCS002928215R6□00 | 5600 | 10 / 5 / 2 | 7.9 | 18 | 7.9 | 45 | 4.0 | 240 | Green | Blue | Red | 0 |
| BWCS002928216R8□00 | 6800 | 10 / 5 / 2 | 7.9 | 18 | 7.9 | 40 | 4.9 | 200 | Blue | Gray | Red | 0 |
| BWCS002928218R2□00 | 8200 | 10 / 5 / 2 | 7.9 | 18 | 7.9 | 25 | 6.0 | 170 | Gray | Red | Red | 0 |
| BWCS00292821100□00 | 10000 | 10 / 5 / 2 | 2.52 | 18 | 7.9 | 25 | 8.0 | 150 | Brown | Black | Orange | 0 |
| BWCS00292821150□00 | 15000 | 10 / 5 / 2 | 2.52 | 15 | 7.9 | 20 | 11 | 100 | Brown | Green | Orange | 0 |

Note: When ordering, please specify tolerance code. Tolerance : G=±2% , J=±5% , K=±10%

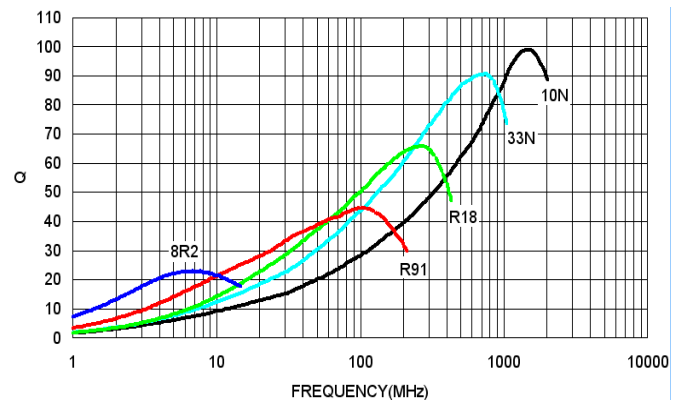
- Operating temperature range – 40°C ~ 125°C (Including self - temperature rise)
- I_{rms} for a 15°C temperature rise from 25°C ambient with current
- Measure Equipment :
 L & Q : Agilent E4991A+Agilent HP16197A
 SRF : Agilent HP8753D/Agilent E4991A
 RDC : Chroma 16502
 I_{rms} : HP4284A+HP42841A/HP4285A+HP42841A



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



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



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SMD Wire Wound Ceramic Chip Inductors – BWCS Series

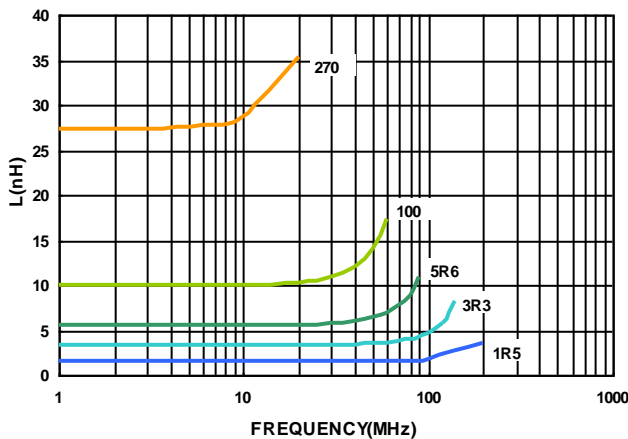
Electrical Characteristics

| Part Number | Inductance (uH) | Tolerance (±%) | Test Frequency (MHz) | Q Min | Test Frequency (MHz) | SRF (MHz) Min | RDC (Ω) Max | Irms (mA) Typ |
|--------------------|-----------------|----------------|----------------------|-------|----------------------|---------------|-------------|---------------|
| BWCS004938341R0□00 | 1.0 | 5 | 7.9 | 60 | 50 | 310 | 1.2 | 480 |
| BWCS004938341R2□00 | 1.2 | 5 | 7.9 | 62 | 50 | 230 | 1.2 | 480 |
| BWCS004938341R5□00 | 1.5 | 5 / 2 | 7.9 | 65 | 50 | 210 | 1.6 | 430 |
| BWCS004938341R8□00 | 1.8 | 5 | 7.9 | 68 | 50 | 190 | 2.0 | 380 |
| BWCS004938342R2□00 | 2.2 | 5 / 2 | 7.9 | 63 | 50 | 170 | 2.2 | 340 |
| BWCS004938342R7□00 | 2.7 | 5 / 2 | 7.9 | 60 | 50 | 160 | 3.2 | 300 |
| BWCS004938343R3□00 | 3.3 | 5 / 2 | 7.9 | 60 | 50 | 145 | 3.8 | 270 |
| BWCS004938343R9□00 | 3.9 | 5 / 2 | 7.9 | 61 | 50 | 130 | 5.0 | 240 |
| BWCS004938344R7□00 | 4.7 | 5 | 7.9 | 60 | 50 | 115 | 5.4 | 230 |
| BWCS004938345R6□00 | 5.6 | 5 | 7.9 | 42 | 50 | 100 | 5.7 | 220 |
| BWCS004938346R8□00 | 6.8 | 5 | 7.9 | 32 | 50 | 90 | 6.6 | 210 |
| BWCS004938348R2□00 | 8.2 | 5 / 2 | 7.9 | 35 | 50 | 80 | 7.0 | 200 |
| BWCS00493834100□00 | 10 | 5 | 7.9 | 27 | 50 | 70 | 7.7 | 190 |
| BWCS00493834120□00 | 12 | 5 | 2.5 | 34 | 10 | 58 | 8.7 | 180 |
| BWCS00493834150□00 | 15 | 5 / 2 | 2.5 | 32 | 10 | 48 | 9.6 | 170 |
| BWCS00493834180□00 | 18 | 5 | 2.5 | 28 | 10 | 36 | 10.5 | 160 |
| BWCS00493834220□00 | 22 | 5 / 2 | 2.5 | 28 | 10 | 34 | 11.5 | 155 |
| BWCS00493834270□00 | 27 | 5 | 2.5 | 28 | 10 | 30 | 12.5 | 150 |
| BWCS00493834330□00 | 33 | 5 / 2 | 2.5 | 20 | 10 | 20 | 13.5 | 145 |

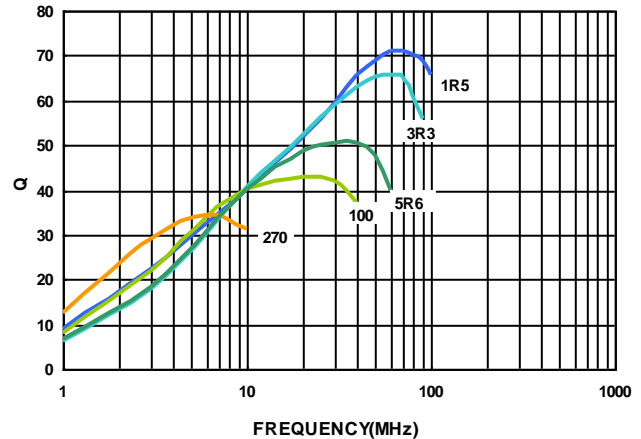
Note: When ordering, please specify tolerance code. Tolerance : G=±2% , J=±5%

- Operating temperature range—40°C~125°C (Including self - temperature rise)
- Irms for a 15°C temperature rise from 25°C ambient with current
- Measure Equipment :
 L & Q : HP4286A/HP4287A/AgilentE4991/Keysight E4982A
 SRF : Agilent HP8753D/Agilent E4991A
 RDC : Chroma 16502
 Irms : HP4284A+HP42841A/HP4285A+HP42841A

Typical L vs. Frequency



Typical Q vs. Frequency



Please be sure to request approval specifications that provide further details of the products. Kindly note 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 Chilisin approval. Please contact our sales department before

SMD Wire Wound Ceramic Chip Inductors - BWCS Series

Packaging Specifications

Tape Dimensions

Figure 1

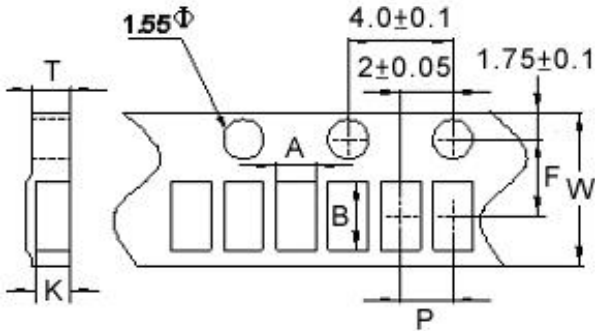


Figure 2

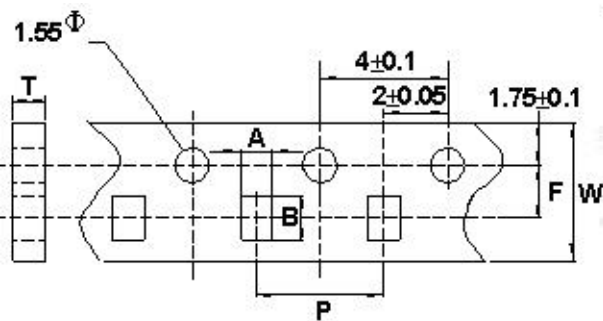
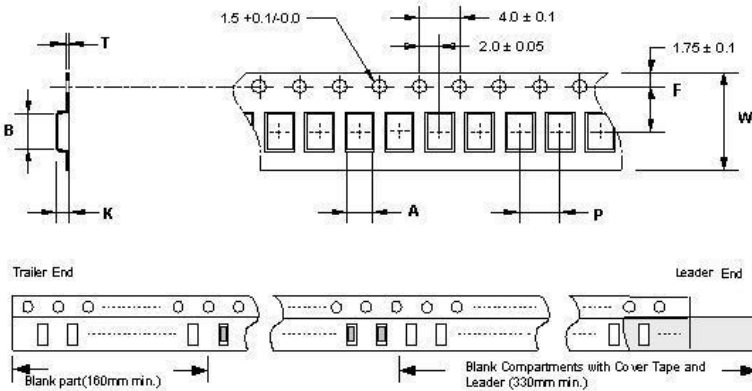
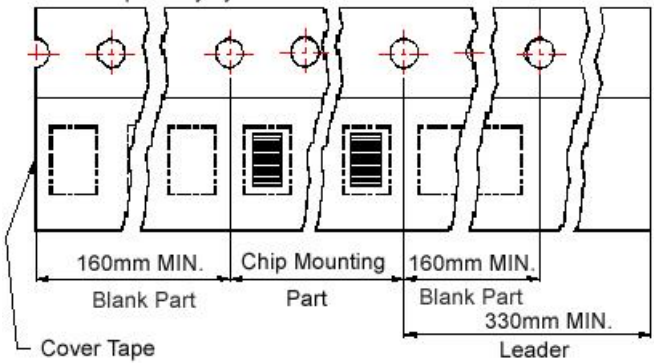


Figure 3

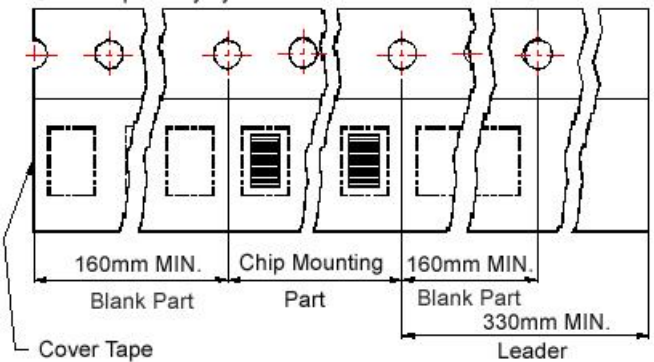


Tape Material

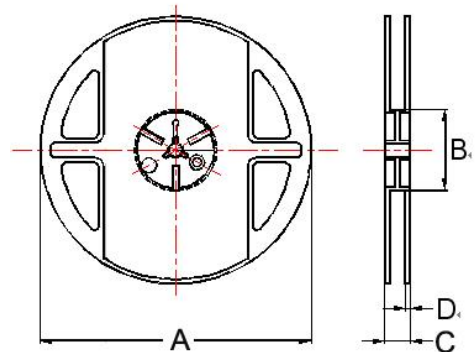
Carrier Tape: Paper
Cover Tape: Polystyrene



Carrier Tape: Paper
Cover Tape: Polystyrene



Reel Dimensions



Dimensions in mm

| TYPE | Fig. | Tape Dimensions | | | | | | | Reel Dimensions | | | | Quantity PCS / Reel |
|--------------|------|-----------------|------|------|----|---|-----|------|-----------------|----|----|-----|------------------------|
| | | A | B | T | W | P | F | K | A | B | C | D | |
| BWCS00060404 | 1 | 0.47 | 0.60 | 0.65 | 8 | 2 | 3.5 | 0.45 | 178 | 60 | 12 | 1.5 | 4000 |
| BWCS00120707 | 1 | 0.67 | 1.20 | 0.75 | 8 | 2 | 3.5 | 0.59 | 178 | 60 | 12 | 1.5 | 4000 |
| BWCS00161008 | 2 | 1.25 | 1.90 | 1.05 | 8 | 4 | 3.5 | - | 178 | 60 | 12 | 1.5 | 4000 |
| BWCS00231715 | 3 | 1.85 | 2.45 | 0.23 | 8 | 4 | 3.5 | 1.70 | 178 | 60 | 12 | 1.5 | 2000 |
| BWCS00292821 | 3 | 2.80 | 2.95 | 0.23 | 8 | 4 | 3.5 | 2.20 | 178 | 60 | 12 | 1.5 | 2000 |
| BWCS00493834 | 3 | 3.90 | 4.90 | 0.30 | 12 | 8 | 5.5 | 3.20 | 178 | 60 | 16 | 1.4 | 600 |

单击下面可查看定价，库存，交付和生命周期等信息

[>>CHILISIN\(奇力新\)](#)