

SMD Wire Wound Ceramic Chip Inductors

BWCM 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 and custom designs are available.

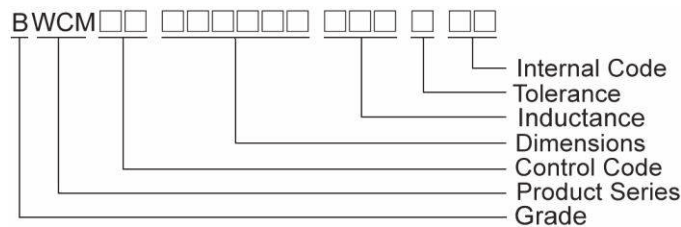
Features

- RoHS Compliant
- Ceramic body and wire wound construction provide high SRFs
- Exceptional Q value even at high frequencies
- Ceramic construction delivers the highest possible SRFs as well as high Q value
- Low DC resistance design supports low loss, high output and low power consumption
- CM series is standard for RF designers

Applications

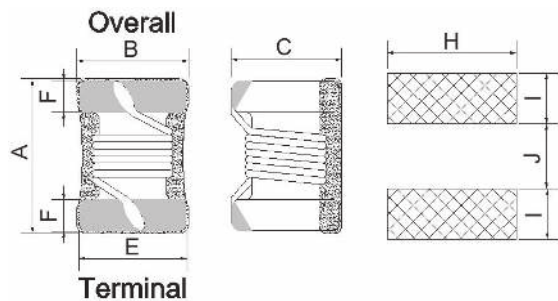
- RF products for cellular phone
- GPS receiver
- Base Station
- Repeater
- Wireless LAN/ mouse/ keyboard/ earphone
- Remote control
- Security system and other RF modules

Product Identification

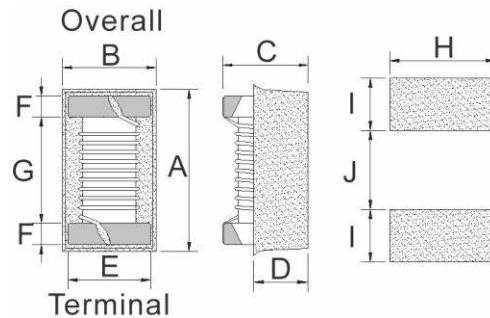


Shape and Dimensions / Recommended Pattern

BWCM00060404



BWCM00110705/181010



Dimensions

| | A | B | C | D | E | F | G | H | I | J |
|---------------------|-----------|-----------|-----------|------|------|------|------|------|------|------|
| BWCM00060404 | 0.53±0.05 | 0.40±0.05 | 0.40±0.05 | - | 0.38 | 0.10 | - | 0.40 | 0.21 | 0.23 |
| BWCM00110705 | 1.1±0.1 | 0.70±0.1 | 0.5±0.1 | 0.35 | 0.60 | 0.15 | 0.70 | 0.66 | 0.40 | 0.60 |
| BWCM00181010 | 1.80±0.1 | 1.00±0.1 | 0.95±0.1 | 0.60 | 0.90 | 0.23 | 1.15 | 1.15 | 0.57 | 0.86 |

SMD Wire Wound Ceramic Chip Inductors

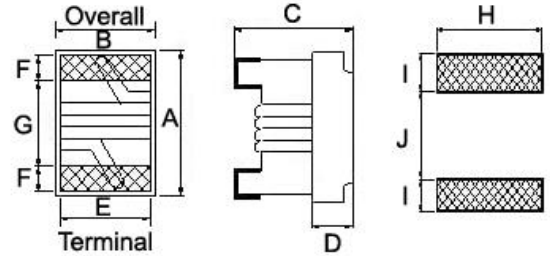
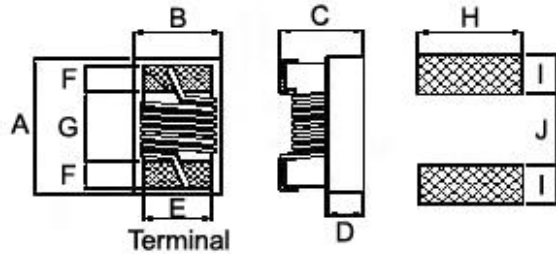
BWCM Series



Shape and Dimensions / Recommended Pattern

BWCM00120707

BWCM00161008



Dimensions

| | A | B | C | D | E | F | G | H | I | J |
|---------------------|-------------------------------------|----------|--------------------------------------|------|------|------|------|------|------|------|
| BWCM00120707 | 1.19 Max | 0.70 Max | 0.66 Max | 0.25 | 0.51 | 0.23 | 0.56 | 0.66 | 0.36 | 0.46 |
| BWCM00161008 | 1.6 ^{+0.2} _{-0.1} | 1.02±0.1 | 0.82 ^{+0.2} _{-0.1} | 0.35 | 0.70 | 0.30 | 0.95 | 1.02 | 0.64 | 0.64 |

Electrical Characteristics

| Part Number | Inductance (nH) | Tolerance (±%) | Test Frequency (MHz) | Q Typ. | Test Frequency (MHz) | SRF (GHz) Min | RDC (Ω) Max | I _{rms} (mA) Typ. |
|--------------------|-----------------|----------------|----------------------|--------|----------------------|---------------|-------------|----------------------------|
| BWCM000604041N0□00 | 1.0 | ±0.2nH | 250 | 48 | 900 | 19 | 0.03 | 900 |
| BWCM000604041N1□00 | 1.1 | ±0.2nH | 250 | 41 | 900 | 19 | 0.06 | 660 |
| BWCM000604041N7□00 | 1.7 | ±0.2nH | 250 | 41 | 900 | 19 | 0.07 | 600 |
| BWCM000604041N8□00 | 1.8 | ±0.2nH | 250 | 37 | 900 | 19 | 0.10 | 520 |
| BWCM000604041N9□00 | 1.9 | ±0.2nH | 250 | 41 | 900 | 19 | 0.08 | 620 |
| BWCM000604042N0□00 | 2.0 | ±0.2nH | 250 | 42 | 900 | 19 | 0.10 | 490 |
| BWCM000604042N1□00 | 2.1 | ±0.2nH | 250 | 35 | 900 | 19 | 0.16 | 400 |
| BWCM000604042N2□00 | 2.2 | ±0.2nH | 250 | 33 | 900 | 19 | 0.16 | 400 |
| BWCM000604042N7□00 | 2.7 | ±0.2nH | 250 | 46 | 900 | 15 | 0.06 | 720 |
| BWCM000604042N8□00 | 2.8 | ±0.2nH | 250 | 44 | 900 | 14 | 0.08 | 600 |
| BWCM000604042N9□00 | 2.9 | ±0.2nH | 250 | 41 | 900 | 13 | 0.10 | 540 |
| BWCM000604043N0□00 | 3.0 | ±0.2nH | 250 | 34 | 900 | 14 | 0.22 | 350 |
| BWCM000604043N1□00 | 3.1 | ±0.2nH | 250 | 48 | 900 | 12 | 0.07 | 720 |
| BWCM000604043N2□00 | 3.2 | ±0.2nH | 250 | 48 | 900 | 10 | 0.08 | 580 |
| BWCM000604043N3□00 | 3.3 | ±0.2nH | 250 | 47 | 900 | 11 | 0.11 | 520 |
| BWCM000604043N4□00 | 3.4 | ±0.2nH | 250 | 43 | 900 | 11 | 0.15 | 440 |
| BWCM000604043N5□00 | 3.5 | ±0.2nH | 250 | 43 | 900 | 12 | 0.15 | 440 |
| BWCM000604043N6□00 | 3.6 | ±0.2nH | 250 | 36 | 900 | 11 | 0.23 | 340 |
| BWCM000604043N7□00 | 3.7 | ±0.2nH | 250 | 38 | 900 | 11 | 0.23 | 340 |
| BWCM000604043N9□00 | 3.9 | ±0.2nH | 250 | 48 | 900 | 11 | 0.07 | 650 |
| BWCM000604044N3□00 | 4.3 | 5 | 100 | 45 | 900 | 11 | 0.12 | 480 |
| BWCM000604044N7□00 | 4.7 | 5 | 100 | 45 | 900 | 9.5 | 0.09 | 620 |
| BWCM000604045N1□00 | 5.1 | 5 | 100 | 45 | 900 | 9.5 | 0.14 | 480 |
| BWCM000604045N4□00 | 5.4 | 5 | 100 | 46 | 900 | 9.5 | 0.21 | 420 |
| BWCM000604045N6□00 | 5.6 | 5 | 100 | 37 | 900 | 8.3 | 0.33 | 330 |
| BWCM000604045N8□00 | 5.8 | 5 | 100 | 47 | 900 | 8.8 | 0.16 | 460 |
| BWCM000604046N2□00 | 6.2 | 5 | 100 | 39 | 900 | 9.9 | 0.22 | 360 |
| BWCM000604046N8□00 | 6.8 | 5 | 100 | 42 | 900 | 7.7 | 0.18 | 460 |

| | | | | | | | | |
|--------------------|-----|---|-----|----|-----|-----|------|-----|
| BWCM000604047N5□00 | 7.5 | 5 | 100 | 41 | 900 | 7.5 | 0.24 | 400 |
| BWCM000604048N2□00 | 8.2 | 5 | 100 | 40 | 900 | 8.5 | 0.26 | 290 |

Note: When ordering, please specify tolerance code. Tolerance : C=±0.2nH , J=±5%

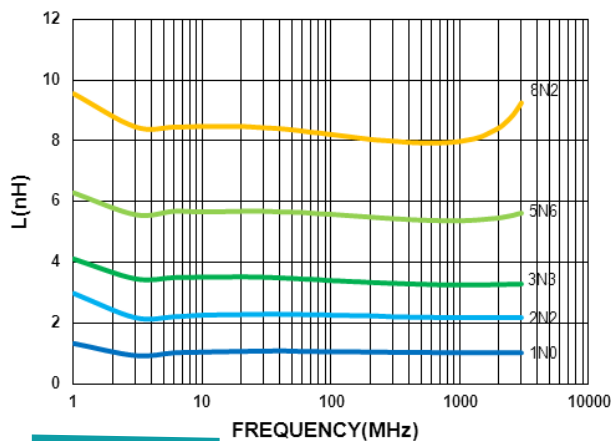
- Operating temperature range - 55°C ~ 125°C(Including self - temperature rise)
- Irms for a 20°C temperature rise from 25°C ambient with current
- Offset value : -0.48nH
- Measure Equipment :
 L & Q : HP4286A/HP4287A/AgilentE4991/Keysight E4982A
 SRF : Agilent HP8753D/ AgilentE4991
 RDC : HP4287A/Keysight E4982A
 Irms : HP4284A+HP42841A/HP4285A+HP42841A

| Part Number | Inductance (nH) | Tolerance (±%) | Test Frequency (MHz) | Q Typ. | Test Frequency (MHz) | SRF (GHz) Min | RDC (Ω) Max | Irms (mA) Typ. |
|--------------------|-----------------|----------------|----------------------|--------|----------------------|---------------|-------------|----------------|
| BWCM000604048N7□00 | 8.7 | 5 | 100 | 39 | 900 | 7.5 | 0.42 | 290 |
| BWCM000604049N1□00 | 9.1 | 5 | 100 | 46 | 900 | 6.4 | 0.22 | 460 |
| BWCM0006040410N□00 | 10 | 5 | 100 | 37 | 900 | 7.2 | 0.46 | 250 |
| BWCM0006040411N□00 | 11 | 5 | 100 | 37 | 900 | 7.0 | 0.47 | 260 |
| BWCM0006040412N□00 | 12.5 | 5 | 100 | 39 | 900 | 6.0 | 0.54 | 280 |
| BWCM0006040413N□00 | 13 | 5 | 100 | 39 | 900 | 5.9 | 0.54 | 280 |
| BWCM0006040414N□00 | 13.5 | 5 | 100 | 37 | 900 | 6.0 | 0.53 | 240 |
| BWCM0006040415N□00 | 15.5 | 5 | 100 | 38 | 900 | 5.7 | 0.60 | 230 |

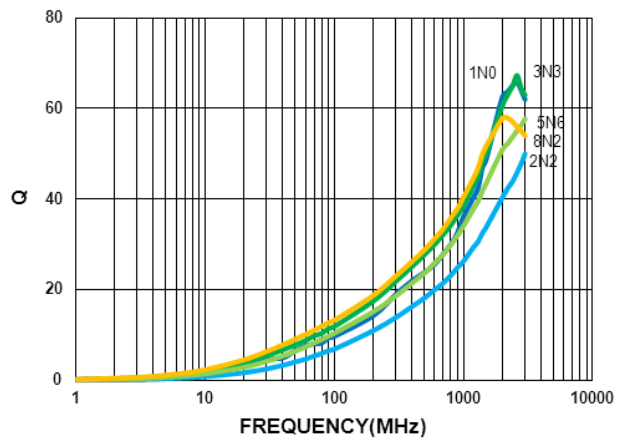
Note: When ordering, please specify tolerance code. Tolerance : C=±0.2nH , J=±5%

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- Measure Equipment :
 L & Q : HP4286A/HP4287A/AgilentE4991/Keysight E4982A
 SRF : Agilent HP8753D/ AgilentE4991
 RDC : HP4287A/Keysight E4982A
 Irms : HP4284A+HP42841A/HP4285A+HP42841A

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



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



Electrical Characteristics

| Part Number | Inductance (nH) | Tolerance (±%) | Test Frequency (MHz) | Q Typ. | Test Frequency (MHz) | SRF (GHz) Min | RDC (Ω) Max | I _{rms} (mA) Typ. |
|--------------------|-----------------|------------------------|----------------------|--------|----------------------|---------------|-------------|----------------------------|
| BWCM001107051N5□H8 | 1.5 | ±0.2nH/±0.5nH | 100 | 20 | 250 | 18 | 0.028 | 2100 |
| BWCM001107052N5□H8 | 2.5 | ±0.1nH/±0.2nH/±0.5nH/2 | 100 | 30 | 250 | 15.5 | 0.03 | 2100 |
| BWCM001107052N7□H8 | 2.7 | ±0.1nH/±0.2nH/±0.5nH/2 | 100 | 28 | 250 | 14 | 0.047 | 1500 |
| BWCM001107053N0□H8 | 3.0 | ±0.1nH/±0.2nH/±0.5nH/2 | 100 | 20 | 250 | 12.5 | 0.063 | 1350 |
| BWCM001107053N8□H8 | 3.8 | ±0.1nH/±0.2nH/±0.5nH/2 | 100 | 35 | 250 | 10 | 0.03 | 1950 |
| BWCM001107053N9□H8 | 3.9 | ±0.1nH/±0.2nH/±0.5nH/2 | 100 | 35 | 250 | 10 | 0.03 | 1950 |
| BWCM001107054N0□H8 | 4.0 | ±0.1nH/±0.2nH/±0.5nH/2 | 100 | 30 | 250 | 10 | 0.03 | 1950 |
| BWCM001107054N1□H8 | 4.1 | ±0.1nH/±0.2nH/±0.5nH/2 | 100 | 30 | 250 | 9.6 | 0.044 | 1800 |
| BWCM001107054N3□H8 | 4.3 | ±0.1nH/±0.2nH/±0.5nH/2 | 100 | 32 | 250 | 9.6 | 0.044 | 1800 |
| BWCM001107054N7□H8 | 4.7 | ±0.1nH/±0.2nH/±0.5nH/2 | 100 | 31 | 250 | 8 | 0.071 | 1200 |
| BWCM001107055N8□H8 | 5.8 | ±0.1nH/±0.2nH/±0.5nH/2 | 100 | 30 | 250 | 8 | 0.04 | 1770 |
| BWCM001107056N2□H8 | 6.2 | ±0.1nH/±0.2nH/±0.5nH/2 | 100 | 33 | 250 | 8 | 0.056 | 1600 |
| BWCM001107056N8□H8 | 6.8 | 2 / 5 | 100 | 30 | 250 | 7 | 0.068 | 1450 |
| BWCM001107057N1□H8 | 7.1 | 2 / 5 | 100 | 32 | 250 | 7 | 0.069 | 1420 |
| BWCM001107057N8□H8 | 7.8 | 2 / 5 | 100 | 30 | 250 | 7 | 0.05 | 1700 |
| BWCM001107057N9□H8 | 7.9 | 2 / 5 | 100 | 30 | 250 | 7 | 0.05 | 1700 |
| BWCM001107058N0□H8 | 8.0 | 2 / 5 | 100 | 30 | 250 | 7 | 0.05 | 1700 |
| BWCM001107058N2□H8 | 8.2 | 2 / 5 | 100 | 32 | 250 | 6.5 | 0.069 | 1500 |
| BWCM001107058N6□H8 | 8.6 | 2 / 5 | 100 | 31 | 250 | 6.5 | 0.07 | 1420 |
| BWCM001107058N7□H8 | 8.7 | 2 / 5 | 100 | 31 | 250 | 6.5 | 0.07 | 1420 |
| BWCM001107058N8□H8 | 8.8 | 2 / 5 | 100 | 31 | 250 | 6.5 | 0.07 | 1420 |
| BWCM001107058N9□H8 | 8.9 | 2 / 5 | 100 | 31 | 250 | 6.5 | 0.07 | 1420 |
| BWCM001107059N0□H8 | 9 | 2 / 5 | 100 | 30 | 250 | 6.5 | 0.07 | 1420 |
| BWCM001107059N1□H8 | 9.1 | 2 / 5 | 100 | 32 | 250 | 6.5 | 0.08 | 1400 |
| BWCM0011070511N□H8 | 11 | 2 / 5 | 100 | 32 | 250 | 6.2 | 0.083 | 1400 |
| BWCM0011070515N□H8 | 15 | 2 / 5 | 100 | 31 | 250 | 5.5 | 0.114 | 1150 |
| BWCM0011070518N□H8 | 18 | 2 / 5 | 100 | 30 | 250 | 5.2 | 0.13 | 1050 |
| BWCM0011070519N□H8 | 19 | 2 / 5 | 100 | 30 | 250 | 5 | 0.156 | 920 |
| BWCM0011070520N□H8 | 20 | 2 / 5 | 100 | 30 | 250 | 4.5 | 0.186 | 800 |
| BWCM0011070523N□H8 | 23 | 2 / 5 | 100 | 29 | 250 | 4.5 | 0.201 | 760 |

| | | | | | | | | |
|--------------------|----|-------|-----|----|-----|---|-------|-----|
| BWCM0011070524N□H8 | 24 | 2 / 5 | 100 | 31 | 250 | 4 | 0.212 | 770 |
| BWCM0011070527N□H8 | 27 | 2 / 5 | 100 | 30 | 250 | 4 | 0.288 | 680 |

Note: When ordering, please specify tolerance code. Tolerance : B=±0.1nH , C=±0.2nH , D=±0.5nH , G=±2% , J=±5%

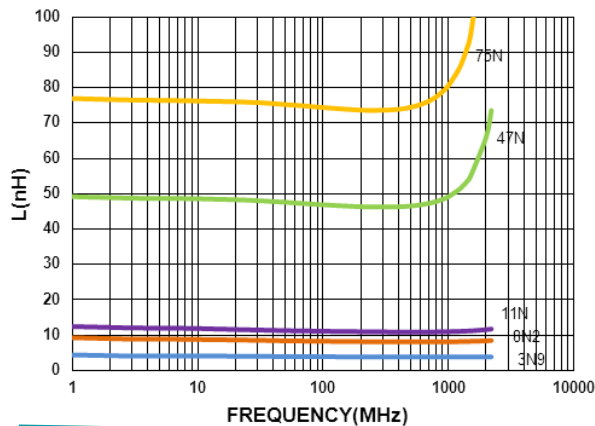
- Operating temperature range - 40°C ~ 125°C(Including self - temperature rise)
- Irms for a 15°C temperature rise from 25°C ambient with current
- Offset value : -0.556nH
- Measure Equipment :
 L & Q : Agilent E4991A+Agilent HP16197A
 SRF : Agilent HP8753D/Agilent HP8722ES
 RDC : Chroma 16502
 Irms : HP4284A+HP42841A/HP4285A+HP42841A

| Part Number | Inductance (nH) | Tolerance (±%) | Test Frequency (MHz) | Q Typ. | Test Frequency (MHz) | SRF (GHz) Min | RDC (Ω) Max | Irms (mA) Typ. |
|--------------------|-----------------|----------------|----------------------|--------|----------------------|---------------|-------------|----------------|
| BWCM0011070533N□H8 | 33 | 2 / 5 | 100 | 30 | 250 | 3.6 | 0.336 | 620 |
| BWCM0011070539N□H8 | 39 | 2 / 5 | 100 | 28 | 250 | 3.4 | 0.456 | 530 |
| BWCM0011070547N□H8 | 47 | 2 / 5 | 100 | 25 | 200 | 3.2 | 0.648 | 440 |
| BWCM0011070551N□H8 | 51 | 2 / 5 | 100 | 25 | 200 | 2.9 | 0.696 | 415 |
| BWCM0011070553N□H8 | 53 | 2 / 5 | 100 | 25 | 200 | 2.9 | 0.696 | 415 |
| BWCM0011070556N□H8 | 56 | 2 / 5 | 100 | 25 | 200 | 2.9 | 0.996 | 340 |
| BWCM0011070568N□H8 | 68 | 2 / 5 | 100 | 25 | 200 | 2.5 | 1.128 | 320 |
| BWCM0011070575N□H8 | 75 | 2 / 5 | 100 | 25 | 200 | 2.4 | 1.224 | 320 |

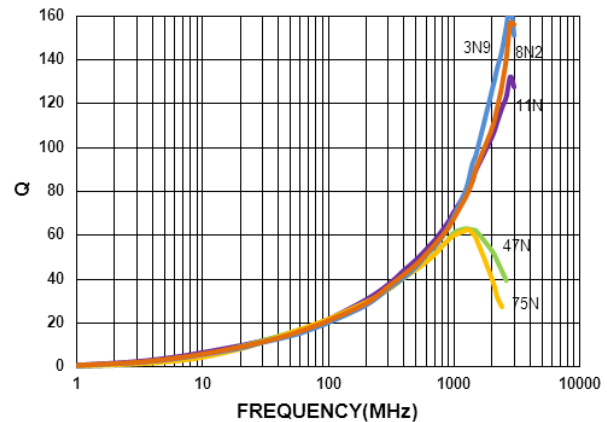
Note: When ordering, please specify tolerance code. Tolerance : B=±0.1nH , C=±0.2nH , D=±0.5nH , G=±2% , J=±5%

- Operating temperature range - 40°C ~ 125°C(Including self - temperature rise)
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- Offset value : -0.556nH
- Measure Equipment :
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 SRF : Agilent HP8753D/Agilent HP8722ES
 RDC : Chroma 16502
 Irms : HP4284A+HP42841A/HP4285A+HP42841A

Typical L vs. Frequency



Typical Q vs. Frequency



Electrical Characteristics

| Part Number | Inductance (nH) | Tolerance (±%) | Test Frequency (MHz) | Q Typ. | Test Frequency (MHz) | SRF (GHz) Min | RDC (Ω) Max | I _{rms} (mA) Typ. |
|--------------------|-----------------|------------------------|----------------------|--------|----------------------|---------------|-------------|----------------------------|
| BWCM001107052N2□L8 | 2.2 | ±0.1nH/±0.2nH/±0.5nH/2 | 100 | 30 | 250 | 15.5 | 0.022 | 2530 |
| BWCM001107052N4□L8 | 2.4 | ±0.1nH/±0.2nH/±0.5nH/2 | 100 | 30 | 250 | 15.5 | 0.022 | 2530 |
| BWCM001107053N3□L8 | 3.3 | ±0.1nH/±0.2nH/±0.5nH/2 | 100 | 30 | 250 | 14 | 0.03 | 2000 |
| BWCM001107053N4□L8 | 3.4 | ±0.1nH/±0.2nH/±0.5nH/2 | 100 | 30 | 250 | 10 | 0.03 | 1950 |
| BWCM001107053N5□L8 | 3.5 | ±0.1nH/±0.2nH/±0.5nH/2 | 100 | 30 | 250 | 10 | 0.03 | 1950 |
| BWCM001107053N6□L8 | 3.6 | ±0.1nH/±0.2nH/±0.5nH/2 | 100 | 30 | 250 | 10 | 0.03 | 1950 |
| BWCM001107055N0□L8 | 5 | ±0.1nH/±0.2nH/±0.5nH/2 | 100 | 32 | 250 | 10 | 0.04 | 1770 |
| BWCM001107055N1□L8 | 5.1 | ±0.1nH/±0.2nH/±0.5nH/2 | 100 | 35 | 250 | 8 | 0.04 | 1770 |
| BWCM001107055N2□L8 | 5.2 | ±0.1nH/±0.2nH/±0.5nH/2 | 100 | 35 | 250 | 8 | 0.04 | 1770 |
| BWCM001107055N3□L8 | 5.3 | ±0.1nH/±0.2nH/±0.5nH/2 | 100 | 35 | 250 | 8 | 0.04 | 1770 |
| BWCM001107055N4□L8 | 5.4 | ±0.1nH/±0.2nH/±0.5nH/2 | 100 | 35 | 250 | 8 | 0.04 | 1770 |
| BWCM001107055N5□L8 | 5.5 | ±0.1nH/±0.2nH/±0.5nH/2 | 100 | 35 | 250 | 8 | 0.04 | 1770 |
| BWCM001107055N6□L8 | 5.6 | ±0.1nH/±0.2nH/±0.5nH/2 | 100 | 35 | 250 | 8 | 0.04 | 1770 |
| BWCM001107055N7□L8 | 5.7 | ±0.1nH/±0.2nH/±0.5nH/2 | 100 | 30 | 250 | 8 | 0.04 | 1770 |
| BWCM001107057N2□L8 | 7.2 | 2 / 5 | 100 | 32 | 250 | 7 | 0.05 | 1700 |
| BWCM001107057N3□L8 | 7.3 | 2 / 5 | 100 | 32 | 250 | 7 | 0.05 | 1700 |
| BWCM001107057N4□L8 | 7.4 | 2 / 5 | 100 | 30 | 250 | 7 | 0.05 | 1700 |
| BWCM001107057N5□L8 | 7.5 | 2 / 5 | 100 | 35 | 250 | 7 | 0.05 | 1700 |
| BWCM001107057N6□L8 | 7.6 | 2 / 5 | 100 | 30 | 250 | 7 | 0.05 | 1700 |
| BWCM001107057N7□L8 | 7.7 | 2 / 5 | 100 | 30 | 250 | 7 | 0.05 | 1700 |
| BWCM001107059N2□L8 | 9.2 | 2 / 5 | 100 | 32 | 250 | 6 | 0.081 | 1400 |
| BWCM001107059N3□L8 | 9.3 | 2 / 5 | 100 | 34 | 250 | 6 | 0.081 | 1400 |
| BWCM001107059N4□L8 | 9.4 | 2 / 5 | 100 | 33 | 250 | 6 | 0.081 | 1400 |
| BWCM001107059N5□L8 | 9.5 | 2 / 5 | 100 | 32 | 250 | 6 | 0.081 | 1400 |
| BWCM001107059N6□L8 | 9.6 | 2 / 5 | 100 | 33 | 250 | 6 | 0.081 | 1400 |
| BWCM001107059N7□L8 | 9.7 | 2 / 5 | 100 | 33 | 250 | 6 | 0.081 | 1400 |
| BWCM001107059N8□L8 | 9.8 | 2 / 5 | 100 | 34 | 250 | 6 | 0.081 | 1400 |
| BWCM001107059N9□L8 | 9.9 | 2 / 5 | 100 | 32 | 250 | 6 | 0.081 | 1400 |

| | | | | | | | | |
|--------------------|----|-------|-----|----|-----|-----|-------|------|
| BWCM0011070510N□L8 | 10 | 2 / 5 | 100 | 31 | 250 | 6 | 0.081 | 1400 |
| BWCM0011070512N□L8 | 12 | 2 / 5 | 100 | 30 | 250 | 5.2 | 0.093 | 1240 |

Note: When ordering, please specify tolerance code. Tolerance : B=±0.1nH , C=±0.2nH , D=±0.5nH , G=±2% , J=±5%

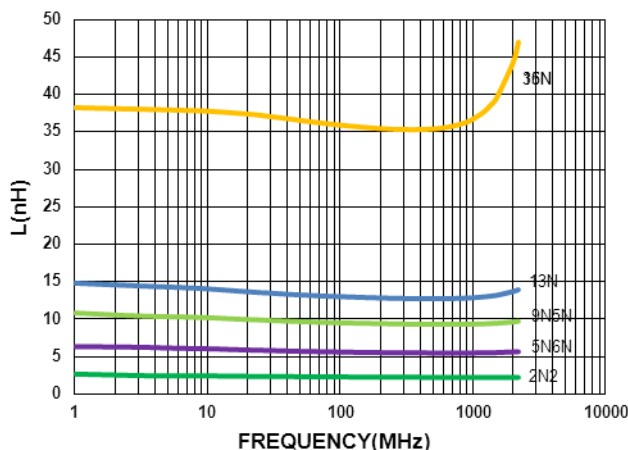
- Operating temperature range - 40°C ~ 125°C(Including self - temperature rise)
- Irms for a 15°C temperature rise from 25°C ambient with current
- Offset value : -0.556nH
- Measure Equipment :
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 SRF : Agilent HP8753D/Agilent HP8722ES
 RDC : Chroma 16502
 Irms : HP4284A+HP42841A/HP4285A+HP42841A

| Part Number | Inductance (nH) | Tolerance (±%) | Test Frequency (MHz) | Q Typ. | Test Frequency (MHz) | SRF (GHz) Min | RDC (Ω) Max | Irms (mA) Typ. |
|--------------------|-----------------|----------------|----------------------|--------|----------------------|---------------|-------------|----------------|
| BWCM0011070513N□L8 | 13 | 2 / 5 | 100 | 30 | 250 | 5.2 | 0.093 | 1240 |
| BWCM0011070516N□L8 | 16 | 2 / 5 | 100 | 31 | 250 | 5 | 0.126 | 1000 |
| BWCM0011070522N□L8 | 22 | 2 / 5 | 100 | 30 | 250 | 4.5 | 0.202 | 780 |
| BWCM0011070530N□L8 | 30 | 2 / 5 | 100 | 30 | 250 | 3.8 | 0.309 | 660 |
| BWCM0011070536N□L8 | 36 | 2 / 5 | 100 | 30 | 250 | 3.5 | 0.431 | 540 |
| BWCM0011070543N□L8 | 43 | 2 / 5 | 100 | 30 | 250 | 3.4 | 0.516 | 515 |

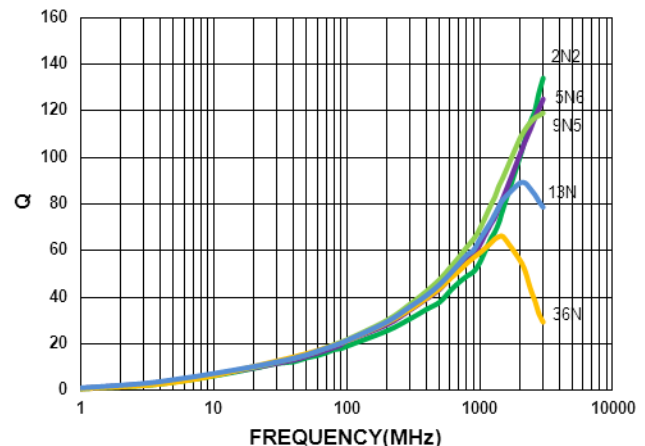
Note: When ordering, please specify tolerance code. Tolerance : B=±0.1nH , C=±0.2nH , D=±0.5nH , G=±2% , J=±5%

- Operating temperature range - 40°C ~ 125°C(Including self - temperature rise)
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 RDC : Chroma 16502
 Irms : HP4284A+HP42841A/HP4285A+HP42841A

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



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



Electrical Characteristics

| Part Number | Inductance (nH) | Tolerance (±%) | Test Frequency (MHz) | Q Min | Test Frequency (MHz) | SRF (GHz) Min | RDC (Ω) Max | I _{rms} (mA) Max |
|--------------------|-----------------|----------------------|----------------------|--------|----------------------|---------------|-------------|---------------------------|
| BWCM001207071N5□00 | 1.5 | ±0.1nH/±0.2nH/±0.5nH | 100 | 10 | 250 | 18.0 | 0.03 | 1000 |
| BWCM001207072N4□00 | 2.4 | ±0.1nH/±0.2nH/±0.5nH | 100 | 20 | 250 | 15.0 | 0.05 | 850 |
| BWCM001207072N5□00 | 2.5 | ±0.1nH/±0.2nH/±0.5nH | 100 | 20 | 250 | 15.0 | 0.05 | 850 |
| BWCM001207072N7□00 | 2.7 | ±0.1nH/±0.2nH/±0.5nH | 100 | 20 | 250 | 15.0 | 0.05 | 850 |
| BWCM001207072N9□00 | 2.9 | ±0.1nH/±0.2nH/±0.5nH | 100 | 20 | 250 | 15.0 | 0.07 | 750 |
| BWCM001207073N9□00 | 3.9 | 3 / 5 | 100 | 25 | 250 | 10.0 | 0.07 | 750 |
| BWCM001207074N1□00 | 4.1 | 3 / 5 | 100 | 25 | 250 | 10.0 | 0.07 | 750 |
| BWCM001207074N3□00 | 4.3 | 3 / 5 | 100 | 25 | 250 | 10.0 | 0.07 | 750 |
| BWCM001207074N7□00 | 4.7 | 3 / 5 | 100 | 25 | 250 | 8.0 | 0.07 | 750 |
| BWCM001207075N1□00 | 5.1 | 3 / 5 | 100 | 25 typ | 250 | 8.0 | 0.12 | 600 |
| BWCM001207075N8□00 | 5.8 | 3 / 5 | 100 | 25 | 250 | 8.0 | 0.12 | 700 |
| BWCM001207076N2□00 | 6.2 | 3 / 5 | 100 | 25 | 250 | 8.0 | 0.09 | 700 |
| BWCM001207076N8□00 | 6.8 | 3 / 5 | 100 | 25 | 250 | 6.0 | 0.09 | 700 |
| BWCM001207077N3□00 | 7.3 | 3 / 5 | 100 | 25 | 250 | 6.0 | 0.13 | 570 |
| BWCM001207077N5□00 | 7.5 | 3 / 5 | 100 | 25 | 250 | 6.0 | 0.13 | 570 |
| BWCM001207078N2□00 | 8.2 | 3 / 5 | 100 | 25 | 250 | 5.5 | 0.14 | 540 |
| BWCM001207078N7□00 | 8.7 | 3 / 5 | 100 | 25 | 250 | 5.5 | 0.14 | 540 |
| BWCM001207079N1□00 | 9.1 | 3 / 5 | 100 | 25 | 250 | 5.5 | 0.14 | 540 |
| BWCM001207079N5□00 | 9.5 | 3 / 5 | 100 | 25 | 250 | 5.5 | 0.14 | 540 |
| BWCM0012070710N□00 | 10 | 2 / 3 / 5 | 100 | 25 | 250 | 5.5 | 0.17 | 500 |
| BWCM0012070711N□00 | 11 | 2 / 3 / 5 | 100 | 30 | 250 | 5.5 | 0.14 | 500 |
| BWCM0012070712N□00 | 12 | 2 / 3 / 5 | 100 | 30 | 250 | 5.5 | 0.14 | 500 |
| BWCM0012070713N□00 | 13 | 2 / 3 / 5 | 100 | 25 | 250 | 5.0 | 0.21 | 430 |
| BWCM0012070715N□00 | 15 | 2 / 3 / 5 | 100 | 30 | 250 | 5.0 | 0.16 | 460 |
| BWCM0012070716N□00 | 16 | 2 / 3 / 5 | 100 | 25 | 250 | 4.5 | 0.24 | 370 |
| BWCM0012070718N□00 | 18 | 2 / 3 / 5 | 100 | 25 | 250 | 4.5 | 0.27 | 370 |
| BWCM0012070719N□00 | 19 | 2 / 3 / 5 | 100 | 25 | 250 | 4.5 | 0.27 | 370 |
| BWCM0012070720N□00 | 20 | 2 / 3 / 5 | 100 | 25 | 250 | 4.0 | 0.27 | 370 |
| BWCM0012070722N□00 | 22 | 2 / 3 / 5 | 100 | 25 | 250 | 4.0 | 0.30 | 310 |
| BWCM0012070723N□00 | 23 | 2 / 3 / 5 | 100 | 25 | 250 | 3.8 | 0.30 | 310 |

| | | | | | | | | |
|--------------------|----|-----------|-----|----|-----|-----|------|-----|
| BWCM0012070724N□00 | 24 | 2 / 3 / 5 | 100 | 25 | 250 | 3.5 | 0.52 | 280 |
| BWCM0012070727N□00 | 27 | 2 / 3 / 5 | 100 | 25 | 250 | 3.5 | 0.52 | 280 |

Note: When ordering, please specify tolerance code. Tolerance : B=±0.1nH , C=±0.2nH , D=±0.5nH , G=±2% , H=±3% , 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 : Agilent E4991A+Agilent HP16197A
 SRF : Agilent HP8753D/Agilent HP8722ES
 RDC : Chroma 16502
 Irms : HP4284A+HP42841A/HP4285A+HP42841A

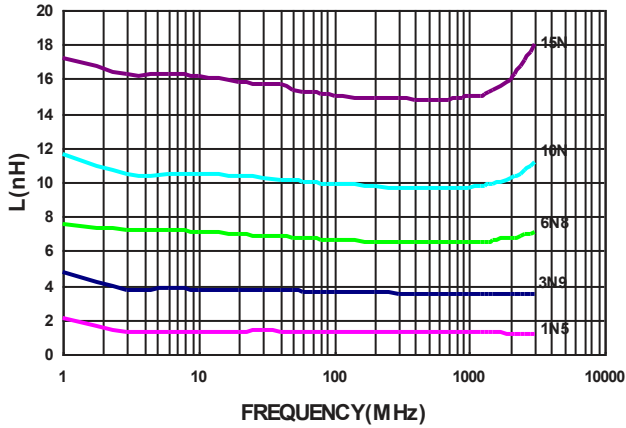
Electrical Characteristics

| Part Number | Inductance (nH) | Tolerance (±%) | Test Frequency (MHz) | Q Min | Test Frequency (MHz) | SRF (GHz) Min | RDC (Ω) Max | Irms (mA) Max |
|--------------------|-----------------|----------------|----------------------|-------|----------------------|---------------|-------------|---------------|
| BWCM0012070730N□00 | 30 | 2 / 3 / 5 | 100 | 25 | 250 | 3.3 | 0.58 | 270 |
| BWCM0012070733N□00 | 33 | 2 / 3 / 5 | 100 | 25 | 250 | 3.2 | 0.63 | 260 |
| BWCM0012070736N□00 | 36 | 2 / 3 / 5 | 100 | 25 | 250 | 3.1 | 0.63 | 260 |
| BWCM0012070739N□00 | 39 | 2 / 3 / 5 | 100 | 25 | 250 | 3.0 | 0.70 | 250 |
| BWCM0012070740N□00 | 40 | 2 / 3 / 5 | 100 | 25 | 250 | 3.0 | 0.70 | 250 |
| BWCM0012070747N□00 | 47 | 2 / 3 / 5 | 100 | 25 | 200 | 2.9 | 1.08 | 210 |
| BWCM0012070751N□00 | 51 | 2 / 3 / 5 | 100 | 25 | 200 | 2.85 | 1.08 | 210 |
| BWCM0012070756N□00 | 56 | 2 / 3 / 5 | 100 | 25 | 200 | 2.80 | 1.17 | 200 |
| BWCM0012070762N□00 | 62 | 2 / 3 / 5 | 100 | 20 | 200 | 2.60 | 1.82 | 145 |
| BWCM0012070768N□00 | 68 | 2 / 3 / 5 | 100 | 20 | 200 | 2.50 | 1.96 | 140 |
| BWCM0012070772N□00 | 72 | 2 / 3 / 5 | 100 | 20 | 150 | 2.50 | 2.10 | 135 |
| BWCM0012070775N□00 | 75 | 2 / 3 / 5 | 100 | 20 | 150 | 2.40 | 2.10 | 135 |
| BWCM0012070782N□00 | 82 | 2 / 3 / 5 | 100 | 20 | 150 | 2.30 | 2.24 | 130 |
| BWCM0012070791N□00 | 91 | 2 / 3 / 5 | 100 | 20 | 150 | 2.10 | 2.38 | 125 |
| BWCM00120707R10□00 | 100 | 2 / 3 / 5 | 100 | 20 | 150 | 1.50 | 2.52 | 120 |
| BWCM00120707R12□00 | 120 | 2 / 3 / 5 | 100 | 20 | 150 | 1.00 | 2.66 | 110 |

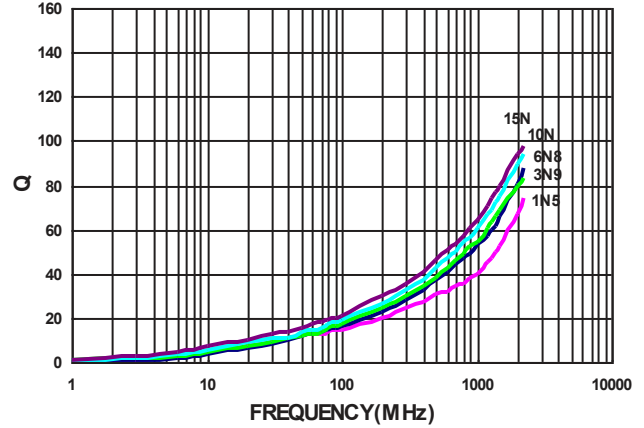
Note: When ordering, please specify tolerance code. Tolerance : B=±0.1nH , C=±0.2nH , D=±0.5nH , G=±2% , H=±3% , J=±5%

- 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 : Agilent E4991A+Agilent HP16197A
 SRF : Agilent HP8753D/Agilent HP8722ES
 RDC : Chroma 16502
 Irms : HP4284A+HP42841A/HP4285A+HP42841A

Typical **L** vs. **F**requency



Typical **Q** vs. **F**requency



Electrical Characteristics

| Part Number | Inductance (nH) | Tolerance (±%) | Test Frequency (MHz) | Q Min | Test Frequency (MHz) | SRF (GHz) Min | RDC (Ω) Max | I _{rms} (mA) Max |
|--------------------|-----------------|----------------------|----------------------|-------|----------------------|---------------|-------------|---------------------------|
| BWCM001610082N2□00 | 2.2 | ±0.1nH/±0.2nH/±0.5nH | 100 | 16 | 250 | 6.0 | 0.049 | 700 |
| BWCM001610083N6□00 | 3.6 | 3 / 5 | 100 | 25 | 250 | 6.0 | 0.059 | 850 |
| BWCM001610083N9□00 | 3.9 | 3 / 5 | 100 | 35 | 250 | 6.0 | 0.059 | 850 |
| BWCM001610084N3□00 | 4.3 | 3 / 5 | 100 | 35 | 250 | 6.0 | 0.059 | 850 |
| BWCM001610084N7□00 | 4.7 | 3 / 5 | 100 | 35 | 250 | 6.0 | 0.059 | 850 |
| BWCM001610085N6□00 | 5.6 | 3 / 5 | 100 | 35 | 250 | 6.0 | 0.082 | 750 |
| BWCM001610086N2□00 | 6.2 | 3 / 5 | 100 | 35 | 250 | 6.0 | 0.082 | 750 |
| BWCM001610086N8□00 | 6.8 | 3 / 5 | 100 | 35 | 250 | 6.0 | 0.082 | 750 |
| BWCM001610087N5□00 | 7.5 | 3 / 5 | 100 | 35 | 250 | 6.0 | 0.082 | 750 |
| BWCM001610088N2□00 | 8.2 | 3 / 5 | 100 | 35 | 250 | 6.0 | 0.110 | 650 |
| BWCM001610088N7□00 | 8.7 | 3 / 5 | 100 | 35 | 250 | 6.0 | 0.110 | 650 |
| BWCM001610089N1□00 | 9.1 | 3 / 5 | 100 | 35 | 250 | 6.0 | 0.110 | 650 |
| BWCM001610089N5□00 | 9.5 | 3 / 5 | 100 | 35 | 250 | 6.0 | 0.110 | 650 |
| BWCM0016100810N□00 | 10 | 2 / 3 / 5 | 100 | 35 | 250 | 6.0 | 0.110 | 650 |
| BWCM0016100811N□00 | 11 | 2 / 3 / 5 | 100 | 35 | 250 | 6.0 | 0.110 | 650 |
| BWCM0016100812N□00 | 12 | 2 / 3 / 5 | 100 | 35 | 250 | 6.0 | 0.130 | 600 |
| BWCM0016100813N□00 | 13 | 2 / 3 / 5 | 100 | 35 | 250 | 6.0 | 0.130 | 600 |
| BWCM0016100815N□00 | 15 | 2 / 3 / 5 | 100 | 40 | 250 | 6.0 | 0.130 | 600 |
| BWCM0016100816N□00 | 16 | 2 / 3 / 5 | 100 | 40 | 250 | 5.5 | 0.160 | 550 |
| BWCM0016100818N□00 | 18 | 2 / 3 / 5 | 100 | 40 | 250 | 5.5 | 0.160 | 550 |

| | | | | | | | | |
|--------------------|----|-----------|-----|----|-----|-----|-------|-----|
| BWCM0016100820N□00 | 20 | 2 / 3 / 5 | 100 | 40 | 250 | 4.9 | 0.160 | 550 |
| BWCM0016100822N□00 | 22 | 2 / 3 / 5 | 100 | 40 | 250 | 4.6 | 0.170 | 500 |
| BWCM0016100824N□00 | 24 | 2 / 3 / 5 | 100 | 40 | 250 | 3.8 | 0.210 | 500 |
| BWCM0016100827N□00 | 27 | 2 / 3 / 5 | 100 | 40 | 250 | 3.7 | 0.210 | 440 |
| BWCM0016100830N□00 | 30 | 2 / 3 / 5 | 100 | 40 | 250 | 3.3 | 0.230 | 420 |
| BWCM0016100833N□00 | 33 | 2 / 3 / 5 | 100 | 40 | 250 | 3.2 | 0.230 | 420 |
| BWCM0016100836N□00 | 36 | 2 / 3 / 5 | 100 | 40 | 250 | 2.9 | 0.260 | 400 |
| BWCM0016100839N□00 | 39 | 2 / 3 / 5 | 100 | 40 | 250 | 2.8 | 0.260 | 400 |
| BWCM0016100843N□00 | 43 | 2 / 3 / 5 | 100 | 40 | 200 | 2.7 | 0.290 | 380 |
| BWCM0016100847N□00 | 47 | 2 / 3 / 5 | 100 | 38 | 200 | 2.6 | 0.290 | 380 |
| BWCM0016100851N□00 | 51 | 2 / 3 / 5 | 100 | 38 | 200 | 2.5 | 0.330 | 370 |
| BWCM0016100856N□00 | 56 | 2 / 3 / 5 | 100 | 38 | 200 | 2.4 | 0.350 | 360 |

Note: When ordering, please specify tolerance code. Tolerance : B=±0.1nH , C=±0.2nH , D=±0.5nH , G=±2% , H=±3% , 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 : Agilent E4991A+Agilent HP16197A
 SRF : Agilent HP8753D/Agilent HP8722ES
 RDC : Chroma 16502
 Irms : HP4284A+HP42841A/HP4285A+HP42841A

Electrical Characteristics

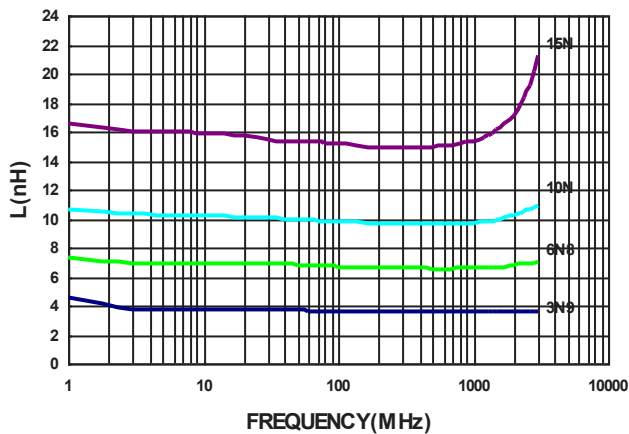
| Part Number | Inductance (nH) | Tolerance (±%) | Test Frequency (MHz) | Q Min | Test Frequency (MHz) | SRF (GHz) Min | RDC (Ω) Max | Irms (mA) Max |
|--------------------|-----------------|----------------|----------------------|-------|----------------------|---------------|-------------|---------------|
| BWCM0016100862N□00 | 62 | 2 / 3 / 5 | 100 | 38 | 200 | 2.3 | 0.510 | 280 |
| BWCM0016100868N□00 | 68 | 2 / 3 / 5 | 100 | 38 | 200 | 2.2 | 0.380 | 340 |
| BWCM0016100872N□00 | 72 | 2 / 3 / 5 | 100 | 34 | 150 | 2.1 | 0.560 | 270 |
| BWCM0016100875N□00 | 75 | 2 / 3 / 5 | 100 | 34 | 150 | 2.05 | 0.560 | 270 |
| BWCM0016100882N□00 | 82 | 2 / 3 / 5 | 100 | 34 | 150 | 2.00 | 0.600 | 250 |
| BWCM0016100891N□00 | 91 | 2 / 3 / 5 | 100 | 34 | 150 | 1.90 | 0.640 | 230 |
| BWCM00161008R10□00 | 100 | 2 / 3 / 5 | 100 | 34 | 150 | 1.80 | 0.680 | 220 |
| BWCM00161008R11□00 | 110 | 2 / 3 / 5 | 100 | 32 | 150 | 1.70 | 1.200 | 200 |
| BWCM00161008R12□00 | 120 | 2 / 3 / 5 | 100 | 32 | 150 | 1.60 | 1.300 | 180 |
| BWCM00161008R13□00 | 130 | 2 / 3 / 5 | 100 | 32 | 150 | 1.45 | 1.400 | 170 |
| BWCM00161008R15□00 | 150 | 2 / 3 / 5 | 100 | 32 | 150 | 1.40 | 1.500 | 160 |
| BWCM00161008R16□00 | 160 | 2 / 3 / 5 | 100 | 32 | 150 | 1.35 | 2.100 | 150 |
| BWCM00161008R18□00 | 180 | 2 / 3 / 5 | 100 | 25 | 100 | 1.30 | 2.200 | 140 |
| BWCM00161008R20□00 | 200 | 2 / 3 / 5 | 100 | 25 | 100 | 1.25 | 2.400 | 120 |

| | | | | | | | | |
|--------------------|-----|-----------|-----|----|-----|------|-------|-----|
| BWCM00161008R22□00 | 220 | 2 / 3 / 5 | 100 | 25 | 100 | 1.20 | 2.500 | 120 |
| BWCM00161008R27□00 | 270 | 2 / 3 / 5 | 100 | 30 | 100 | 0.96 | 3.400 | 110 |
| BWCM00161008R33□00 | 330 | 2 / 3 / 5 | 100 | 30 | 100 | 0.80 | 5.500 | 85 |
| BWCM00161008R39□00 | 390 | 2 / 3 / 5 | 100 | 30 | 100 | 0.80 | 6.200 | 80 |
| BWCM00161008R47□00 | 470 | 2 / 3 / 5 | 100 | 30 | 100 | 0.70 | 7.000 | 75 |

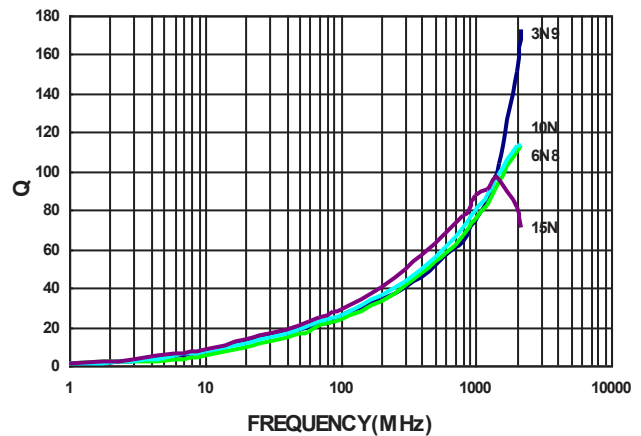
Note: When ordering, please specify tolerance code. Tolerance : B=±0.1nH , C=±0.2nH , D=±0.5nH , G=±2% , H=±3% , J=±5%

- 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 : Agilent E4991A+Agilent HP16197A
 SRF : Agilent HP8753D/Agilent HP8722ES
 RDC : Chroma 16502
 Irms : HP4284A+HP42841A/HP4285A+HP42841A

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



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



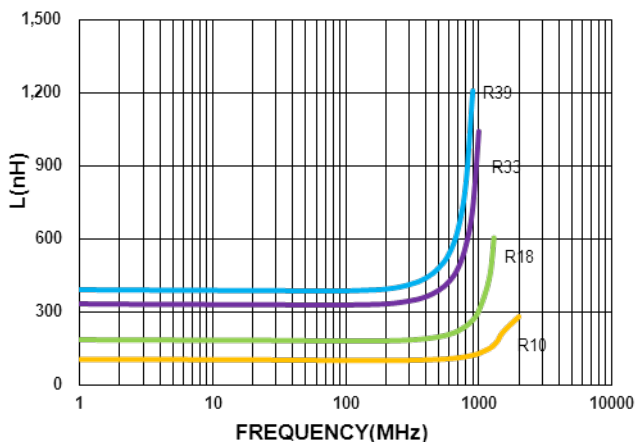
Electrical Characteristics

| Part Number | Inductance (nH) | Tolerance (±%) | Test Frequency (MHz) | Q Min | Test Frequency (MHz) | SRF (GHz) Min | RDC (Ω) Max | Irms (mA) Typ. |
|--------------------|-----------------|----------------|----------------------|-------|----------------------|---------------|-------------|----------------|
| BWCM00181010R10□H8 | 100 | 2 / 5 | 100 | 34 | 150 | 1.75 | 0.63 | 490 |
| BWCM00181010R11□H8 | 110 | 2 / 5 | 100 | 32 | 150 | 1.73 | 0.7 | 450 |
| BWCM00181010R12□H8 | 120 | 2 / 5 | 100 | 32 | 150 | 1.65 | 0.72 | 450 |
| BWCM00181010R15□H8 | 150 | 2 / 5 | 100 | 28 | 150 | 1.58 | 0.87 | 420 |
| BWCM00181010R18□H8 | 180 | 2 / 5 | 100 | 25 | 100 | 1.38 | 1.65 | 310 |
| BWCM00181010R20□H8 | 200 | 2 / 5 | 100 | 25 | 100 | 1.35 | 1.74 | 290 |
| BWCM00181010R21□H8 | 210 | 2 / 5 | 100 | 27 | 100 | 1.33 | 1.98 | 280 |
| BWCM00181010R22□H8 | 220 | 2 / 5 | 100 | 25 | 100 | 1.33 | 2.08 | 280 |
| BWCM00181010R25□H8 | 250 | 2 / 5 | 100 | 24 | 100 | 1.33 | 2.28 | 250 |
| BWCM00181010R27□H8 | 270 | 2 / 5 | 100 | 24 | 100 | 1.25 | 2.42 | 260 |
| BWCM00181010R30□H8 | 300 | 2 / 5 | 100 | 25 | 100 | 1.2 | 3.12 | 220 |
| BWCM00181010R33□H8 | 330 | 2 / 5 | 100 | 25 | 100 | 1.1 | 3.84 | 190 |
| BWCM00181010R36□H8 | 360 | 2 / 5 | 100 | 25 | 100 | 1.05 | 3.98 | 190 |
| BWCM00181010R39□H8 | 390 | 2 / 5 | 100 | 25 | 100 | 1 | 4.23 | 190 |

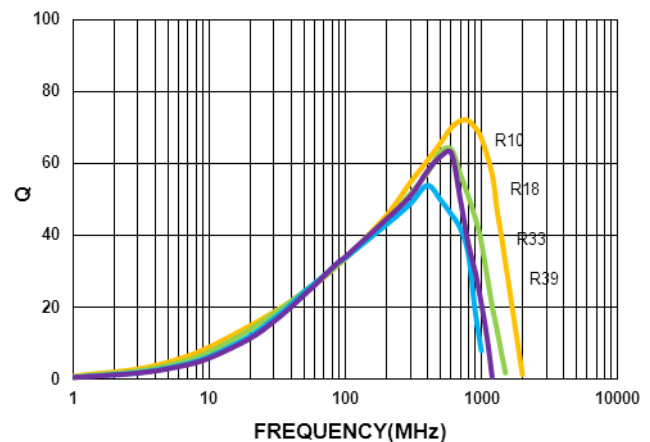
Note: When ordering, please specify tolerance code. Tolerance : G=±2% , J=±5%

- 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
- Offset value : -0.771nH
- Measure Equipment :
 L & Q : Agilent E4991A+Agilent HP16197A
 SRF : Agilent HP8753D/Agilent HP8722ES
 RDC : Chroma 16502
 I rms : HP4284A+HP42841A/HP4285A+HP42841A

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



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



Electrical Characteristics

| Part Number | Inductance (nH) | Tolerance (±%) | Test Frequency (MHz) | Q Min | Test Frequency (MHz) | SRF (GHz) Min | RDC (Ω) Max | I _{rms} (mA) Typ. |
|--------------------|-----------------|------------------|----------------------|-------|----------------------|---------------|-------------|----------------------------|
| BWCM001810102N2□L8 | 2.2 | ±0.2nH | 100 | 24 | 250 | 15 | 0.018 | 3200 |
| BWCM001810102N4□L8 | 2.4 | ±0.2nH | 100 | 18 | 250 | 15 | 0.026 | 2400 |
| BWCM001810103N9□L8 | 3.9 | ±0.1nH/±0.2nH/ 2 | 100 | 30 | 250 | 10 | 0.028 | 2200 |
| BWCM001810104N3□L8 | 4.3 | ±0.1nH/±0.2nH/ 2 | 100 | 35 | 250 | 11.6 | 0.036 | 2100 |
| BWCM001810104N7□L8 | 4.7 | ±0.1nH/±0.2nH/ 2 | 100 | 25 | 250 | 10.4 | 0.054 | 1500 |
| BWCM001810104N9□L8 | 4.9 | ±0.1nH/±0.2nH/ 2 | 100 | 23 | 250 | 7.3 | 0.081 | 1200 |
| BWCM001810105N6□L8 | 5.6 | ±0.2nH/ 2 | 100 | 38 | 250 | 6.65 | 0.04 | 1900 |
| BWCM001810106N8□L8 | 6.8 | ±0.2nH/ 2 | 100 | 40 | 250 | 6.65 | 0.04 | 1900 |
| BWCM001810107N5□L8 | 7.5 | ±0.2nH/ 2 | 100 | 35 | 250 | 7 | 0.048 | 1500 |
| BWCM001810108N2□L8 | 8.2 | ±0.2nH/ 2 | 100 | 38 | 250 | 4.75 | 0.052 | 1600 |
| BWCM001810108N7□L8 | 8.7 | ±0.2nH/ 2 | 100 | 38 | 250 | 4.75 | 0.052 | 1600 |
| BWCM001810109N1□L8 | 9.1 | ±0.2nH/ 2 | 100 | 38 | 250 | 4.75 | 0.052 | 1600 |
| BWCM001810109N5□L8 | 9.5 | ±0.2nH/ 2 | 100 | 38 | 250 | 4.75 | 0.052 | 1600 |
| BWCM0018101010N□L8 | 10 | 2 / 5 | 100 | 38 | 250 | 4.75 | 0.052 | 1600 |
| BWCM0018101011N□L8 | 11 | 2 / 5 | 100 | 40 | 250 | 4.75 | 0.052 | 1600 |
| BWCM0018101012N□L8 | 12 | 2 / 5 | 100 | 37 | 250 | 5 | 0.064 | 1500 |
| BWCM0018101013N□L8 | 13 | 2 / 5 | 100 | 37 | 250 | 5 | 0.064 | 1500 |
| BWCM0018101015N□L8 | 15 | 2 / 5 | 100 | 38 | 250 | 4.6 | 0.075 | 1400 |
| BWCM0018101016N□L8 | 16 | 2 / 5 | 100 | 40 | 250 | 4.6 | 0.075 | 1400 |
| BWCM0018101018N□L8 | 18 | 2 / 5 | 100 | 40 | 250 | 4.6 | 0.075 | 1400 |
| BWCM0018101022N□L8 | 22 | 2 / 5 | 100 | 40 | 250 | 3.45 | 0.086 | 1300 |
| BWCM0018101023N□L8 | 23 | 2 / 5 | 100 | 40 | 250 | 3.45 | 0.086 | 1300 |
| BWCM0018101024N□L8 | 24 | 2 / 5 | 100 | 40 | 250 | 3.45 | 0.086 | 1300 |
| BWCM0018101027N□L8 | 27 | 2 / 5 | 100 | 40 | 250 | 3.6 | 0.098 | 1200 |
| BWCM0018101028N□L8 | 28 | 2 / 5 | 100 | 40 | 250 | 3.6 | 0.098 | 1200 |
| BWCM0018101030N□L8 | 30 | 2 / 5 | 100 | 40 | 250 | 2.88 | 0.12 | 1100 |
| BWCM0018101033N□L8 | 33 | 2 / 5 | 100 | 40 | 250 | 3.15 | 0.11 | 1100 |
| BWCM0018101036N□L8 | 36 | 2 / 5 | 100 | 37 | 250 | 3 | 0.2 | 910 |

SMD Wire Wound Ceramic Chip Inductors

BWCM Series



| | | | | | | | | |
|--------------------|----|-------|-----|----|-----|------|------|------|
| BWCM0018101039N□L8 | 39 | 2 / 5 | 100 | 40 | 250 | 3.28 | 0.16 | 1000 |
| BWCM0018101043N□L8 | 43 | 2 / 5 | 100 | 40 | 250 | 2.78 | 0.21 | 840 |

Note: When ordering, please specify tolerance code. Tolerance : B=±0.1nH , C=±0.2nH , G=±2% , J=±5%

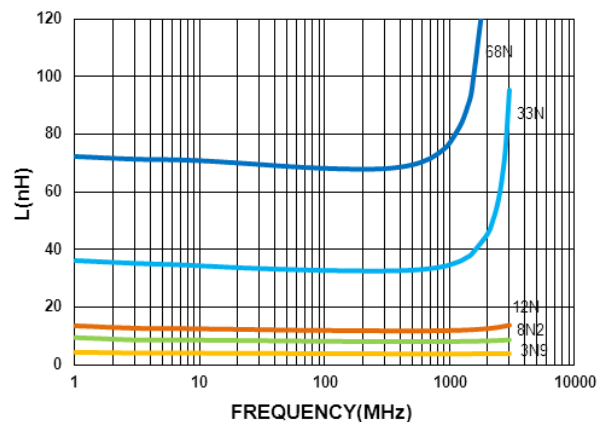
- Operating temperature range - 40°C ~ 125°C(Including self - temperature rise)
- Irms for a 15°C temperature rise from 25°C ambient with current
- Offset value : -0.771nH
- Measure Equipment :
 L & Q : Agilent E4991A+Agilent HP16197A
 SRF : Agilent HP8753D/Agilent HP8722ES
 RDC : Chroma 16502
 Irms : HP4284A+HP42841A/HP4285A+HP42841A

| Part Number | Inductance (nH) | Tolerance (±%) | Test Frequency (MHz) | Q Min | Test Frequency (MHz) | SRF (GHz) Min | RDC (Ω) Max | Irms (mA) Typ. |
|--------------------|-----------------|----------------|----------------------|-------|----------------------|---------------|-------------|----------------|
| BWCM0018101047N□L8 | 47 | 2 / 5 | 100 | 32 | 200 | 2.7 | 0.23 | 830 |
| BWCM0018101051N□L8 | 51 | 2 / 5 | 100 | 32 | 200 | 2.7 | 0.23 | 830 |
| BWCM0018101056N□L8 | 56 | 2 / 5 | 100 | 38 | 200 | 2.6 | 0.26 | 770 |
| BWCM0018101068N□L8 | 68 | 2 / 5 | 100 | 37 | 200 | 2.38 | 0.38 | 630 |
| BWCM0018101072N□L8 | 72 | 2 / 5 | 100 | 34 | 150 | 2.33 | 0.47 | 560 |
| BWCM0018101075N□L8 | 75 | 2 / 5 | 100 | 28 | 150 | 2.28 | 0.41 | 590 |
| BWCM0018101082N□L8 | 82 | 2 / 5 | 100 | 34 | 150 | 2.23 | 0.5 | 550 |
| BWCM0018101091N□L8 | 91 | 2 / 5 | 100 | 33 | 150 | 1.9 | 0.54 | 520 |

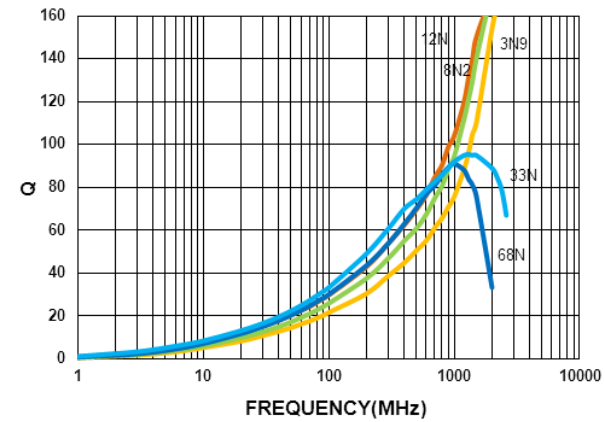
Note: When ordering, please specify tolerance code. Tolerance : B=±0.1nH , C=±0.2nH , G=±2% , J=±5%

- Operating temperature range - 40°C ~ 125°C(Including self - temperature rise)
- Irms for a 15°C temperature rise from 25°C ambient with current
- Offset value : -0.771nH
- Measure Equipment :
 L & Q : Agilent E4991A+Agilent HP16197A
 SRF : Agilent HP8753D/Agilent HP8722ES
 RDC : Chroma 16502
 Irms : HP4284A+HP42841A/HP4285A+HP42841A

Typical L vs. Frequency



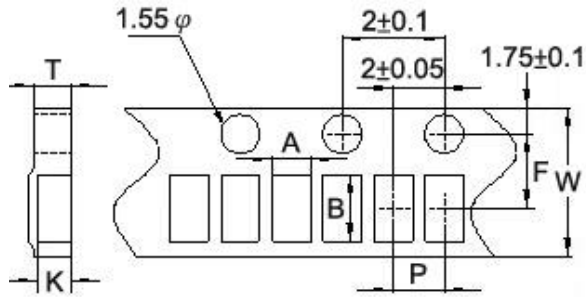
Typical Q vs. Frequency



Packaging Specifications

Tape Dimensions

Figure 1



Tape Material

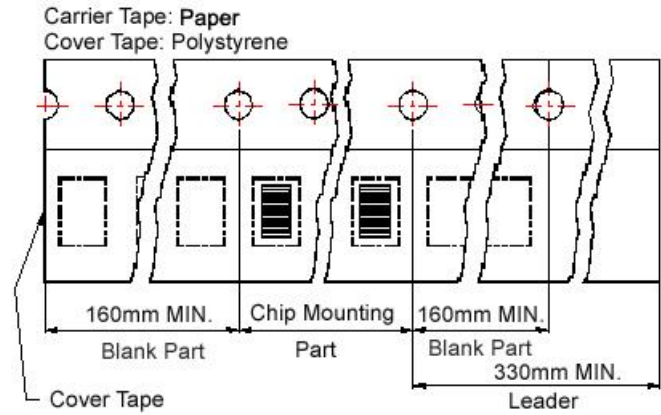
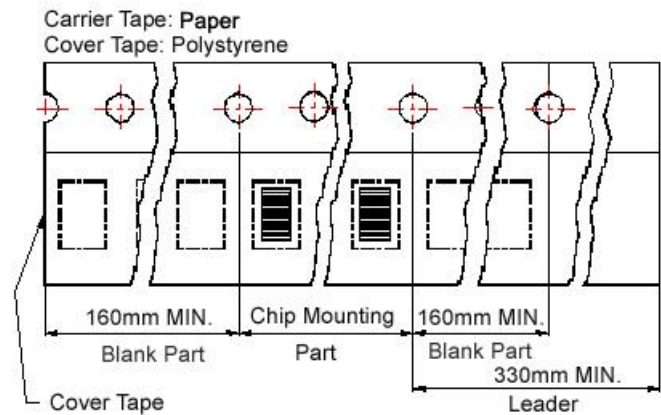
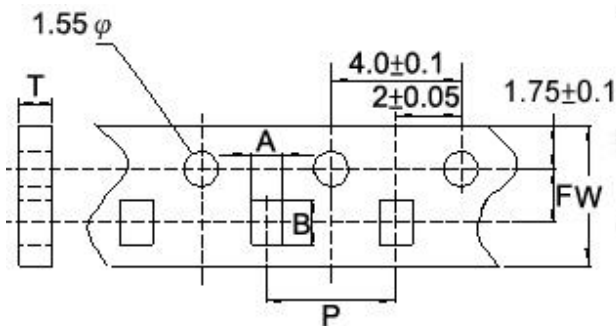
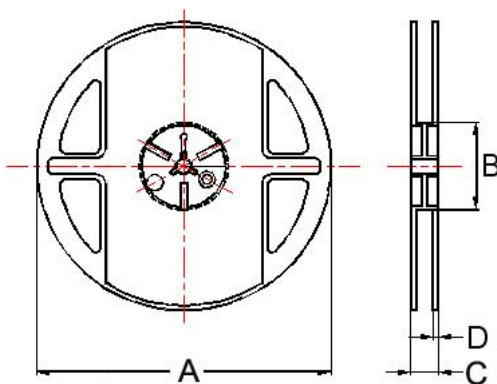


Figure 2



Reel Dimensions



SMD Wire Wound Ceramic Chip Inductors

BWCM Series



Dimensions in mm

| TYPE | Fig. | Tape Dimensions | | | | | | | Reel Dimensions | | | | Quantity |
|--------------|------|-----------------|------|------|---|---|-----|------|-----------------|----|----|-----|------------|
| | | A | B | T | W | P | F | K | A | B | C | D | PCS / Reel |
| BWCM00060404 | 1 | 0.79 | 0.89 | 0.65 | 8 | 2 | 3.5 | 0.45 | 178 | 60 | 12 | 1.5 | 4000 |
| BWCM00110705 | 1 | 0.85 | 1.25 | 0.75 | 8 | 2 | 3.5 | 0.60 | 178 | 60 | 12 | 1.5 | 4000 |
| BWCM00120707 | 1 | 0.67 | 1.20 | 0.75 | 8 | 2 | 3.5 | 0.59 | 178 | 60 | 12 | 1.5 | 4000 |
| BWCM00161008 | 2 | 1.20 | 1.80 | 1.05 | 8 | 4 | 3.5 | - | 178 | 60 | 12 | 1.5 | 4000 |
| BWCM00181010 | 2 | 1.20 | 2.00 | 1.10 | 8 | 4 | 3.5 | - | 178 | 60 | 12 | 1.5 | 4000 |

For More Information:

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