

BSCH Series



The BSCH Series is a type of ceramic chip inductor produced using the multilayer technology. The series provides excellent Q factor and SRF characteristics and is suitable for high frequency applications.

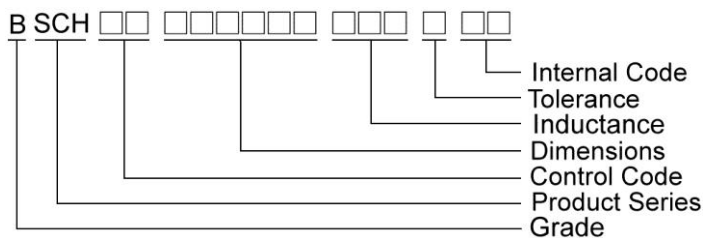
Features

- RoHS compliant
- Excellent Q factor and SRF characteristics
- Small size of 1005/1608 is suitable for small portable devices
- Supports operating frequency up to 6GHz with nominal inductance values from 1.0nH to 470nH.

Applications

- RF resonance and impedance matching circuit
- RF and wireless communication
- Information technology equipment, computers, telecommunications, radar detectors, automotive electronics, cellular phones, pagers, PDAs, keyless remote systems
- L-C filter configurations

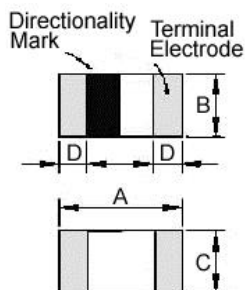
Product Identification



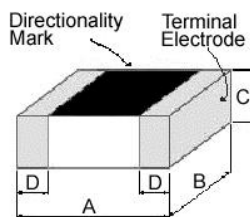
- Product series identification:
 - BSCH00060303 Top side half mark.
 - BSCH00100505 Top side full mark.
 - BSCH00160808 Top side full mark.

Shape and Dimensions

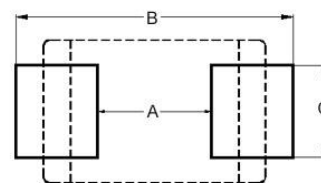
BSCH00060303



BSCH00100505 / 160808



Recommended Pattern



Dimensions in mm

| TYPE | A | B | C | D |
|--------------|----------|----------|----------|-----------|
| BSCH00060303 | 0.6±0.03 | 0.3±0.03 | 0.3±0.03 | 0.15±0.05 |
| BSCH00100505 | 1.0±0.10 | 0.5±0.10 | 0.5±0.10 | 0.25±0.10 |
| BSCH00160808 | 1.6±0.15 | 0.8±0.15 | 0.8±0.15 | 0.3±0.2 |

Dimensions in mm

| TYPE | A | B | C |
|--------------|-----------|-------------|-----------|
| BSCH00060303 | 0.3 | 0.75 ~ 1.05 | 0.3 |
| BSCH00100505 | 0.4 | 1.2 ~ 1.4 | 0.5 |
| BSCH00160808 | 0.7 ~ 0.8 | 1.8 ~ 2.0 | 0.6 ~ 0.8 |

SMD Ceramic Multilayer Chip Inductors – BSCH Series

Electrical Characteristics

| Part Number | Inductance (nH) | Tolerance (±%) | Test Frequency (MHz) | Q Min | SRF (MHz) Min | RDC (Ω) Max | Rated Current (mA) Max |
|--------------------|-----------------|----------------|----------------------|-------|---------------|-------------|------------------------|
| BSCH000603031N0□00 | 1.0 | ±0.3nH | 100 | 4 | >10000 | 0.11 | 470 |
| BSCH000603031N2□00 | 1.2 | ±0.3nH | 100 | 4 | >10000 | 0.12 | 450 |
| BSCH000603031N5□00 | 1.5 | ±0.3nH | 100 | 4 | >10000 | 0.13 | 430 |
| BSCH000603031N8□00 | 1.8 | ±0.3nH | 100 | 4 | >10000 | 0.16 | 390 |
| BSCH000603032N0□00 | 2.0 | ±0.3nH | 100 | 4 | >10000 | 0.17 | 380 |
| BSCH000603032N2□00 | 2.2 | ±0.3nH | 100 | 4 | 8800 | 0.19 | 360 |
| BSCH000603032N4□00 | 2.4 | ±0.3nH | 100 | 4 | 8300 | 0.20 | 350 |
| BSCH000603032N7□00 | 2.7 | ±0.3nH | 100 | 4 | 7700 | 0.21 | 340 |
| BSCH000603033N0□00 | 3.0 | ±0.3nH | 100 | 4 | 7200 | 0.22 | 330 |
| BSCH000603033N3□00 | 3.3 | ±0.3nH | 100 | 4 | 6700 | 0.23 | 320 |
| BSCH000603033N6□00 | 3.6 | ±0.3nH | 100 | 4 | 6400 | 0.25 | 310 |
| BSCH000603033N9□00 | 3.9 | ±0.3nH | 100 | 4 | 6000 | 0.27 | 300 |
| BSCH000603034N3□00 | 4.3 | ±0.3nH | 100 | 4 | 5700 | 0.30 | 280 |
| BSCH000603034N7□00 | 4.7 | ±0.3nH | 100 | 4 | 5300 | 0.30 | 280 |
| BSCH000603035N1□00 | 5.1 | ±0.3nH | 100 | 4 | 5000 | 0.33 | 270 |
| BSCH000603035N6□00 | 5.6 | ±0.3nH | 100 | 4 | 4600 | 0.36 | 260 |
| BSCH000603036N2□00 | 6.2 | ±0.3nH | 100 | 4 | 4200 | 0.38 | 250 |
| BSCH000603036N8□00 | 6.8 | 5 | 100 | 4 | 3900 | 0.39 | 250 |
| BSCH000603037N5□00 | 7.5 | 5 | 100 | 4 | 3600 | 0.41 | 240 |
| BSCH000603038N2□00 | 8.2 | 5 | 100 | 4 | 3400 | 0.45 | 230 |
| BSCH000603039N1□00 | 9.1 | 5 | 100 | 4 | 3200 | 0.48 | 220 |
| BSCH0006030310N□00 | 10 | 5 | 100 | 4 | 2900 | 0.51 | 220 |
| BSCH0006030312N□00 | 12 | 5 | 100 | 4 | 2700 | 0.68 | 190 |
| BSCH0006030315N□00 | 15 | 5 | 100 | 4 | 2300 | 0.71 | 180 |
| BSCH0006030318N□00 | 18 | 5 | 100 | 4 | 2100 | 0.81 | 170 |
| BSCH0006030322N□00 | 22 | 5 | 100 | 4 | 1800 | 1.00 | 150 |
| BSCH0006030327N□00 | 27 | 5 | 100 | 4 | 1800 | 1.35 | 120 |
| BSCH0006030333N□00 | 33 | 5 | 100 | 4 | 1700 | 1.47 | 110 |
| BSCH0006030339N□00 | 39 | 5 | 100 | 4 | 1500 | 1.72 | 100 |
| BSCH0006030347N□00 | 47 | 5 | 100 | 4 | 1300 | 1.90 | 100 |
| BSCH0006030356N□00 | 56 | 5 | 100 | 4 | 1100 | 2.27 | 80 |
| BSCH0006030368N□00 | 68 | 5 | 100 | 4 | 1100 | 2.66 | 80 |
| BSCH0006030382N□00 | 82 | 5 | 100 | 4 | 1000 | 3.37 | 70 |

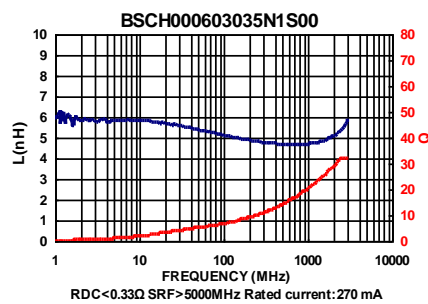
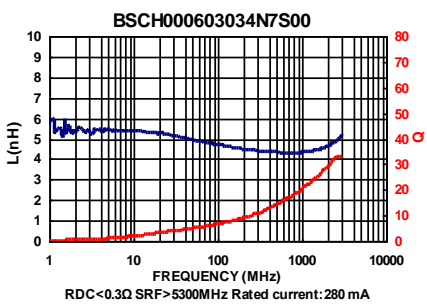
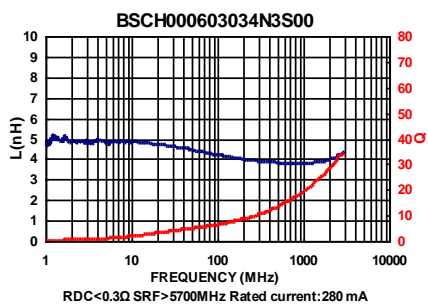
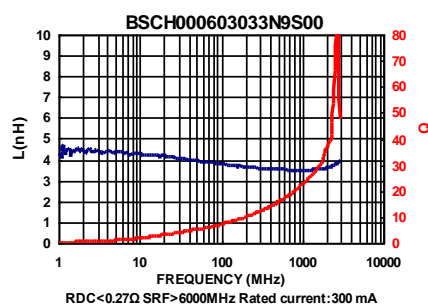
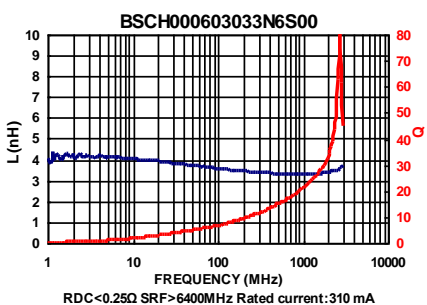
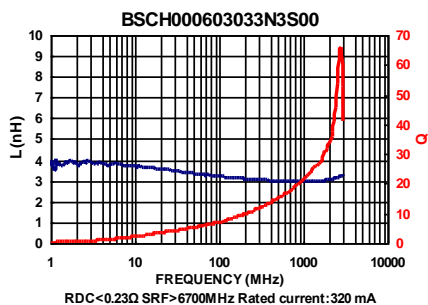
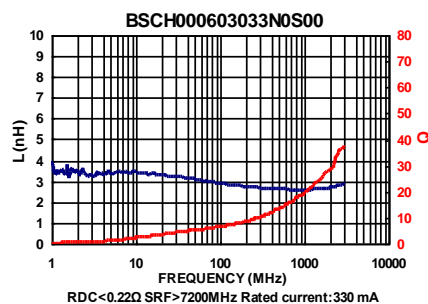
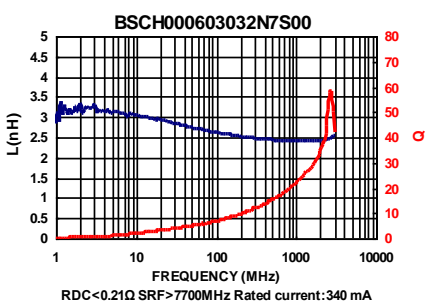
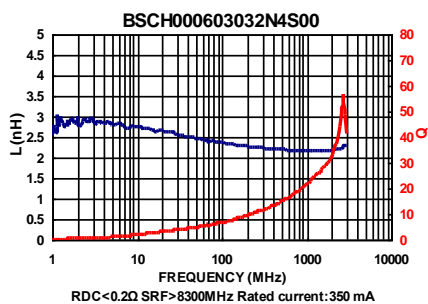
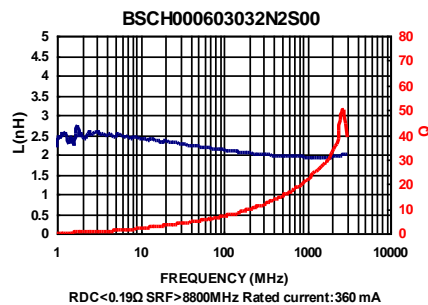
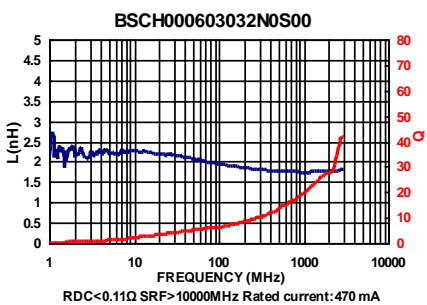
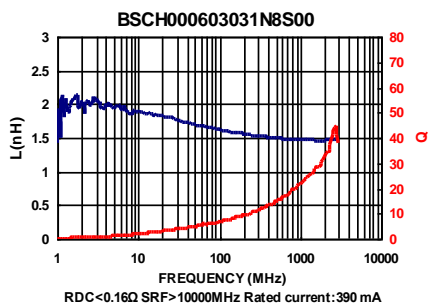
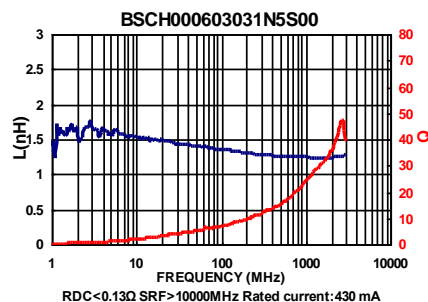
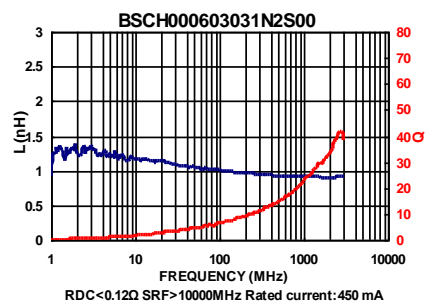
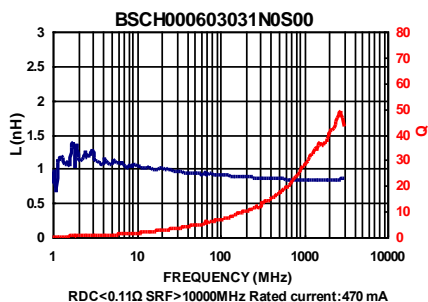
Note: When ordering, please specify tolerance code. Tolerance : S=±0.3nH , J=±5%

- Operating temperature range - 55°C ~ 125°C(Including self - temperature rise)
- Rate Current :Applied the current to coils, the temperature rise shall not be more than 30°C
- Residual impedance of short chip : 0.19nH
- Measure Equipment :
L & Q : Agilent E4991A+Agilent 16197A
SRF : Agilent E4991A or HP19196C
RDC : HP4338B or CHEN HWA 502

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SMD Ceramic Multilayer Chip Inductors – BSCH Series

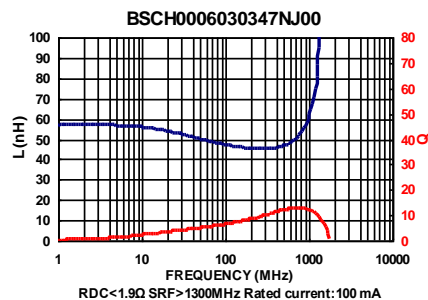
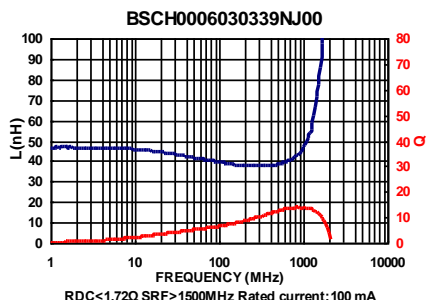
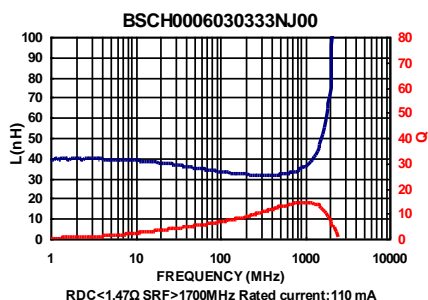
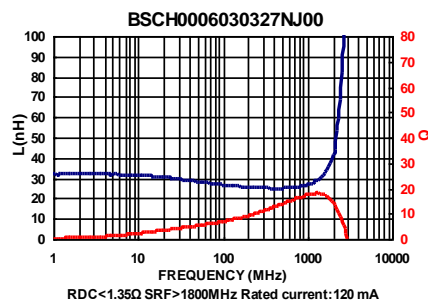
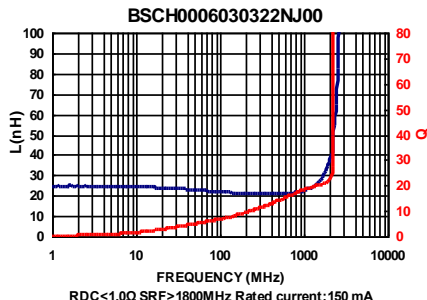
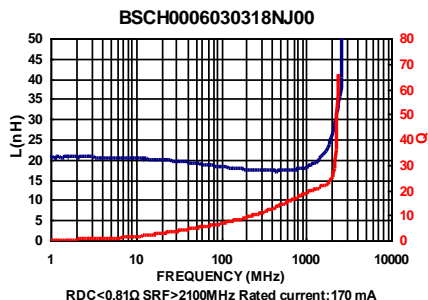
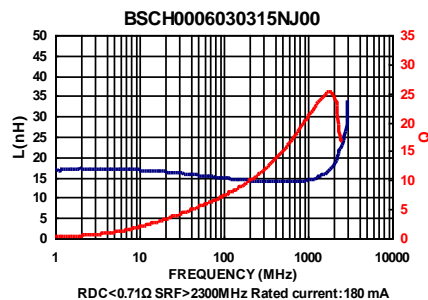
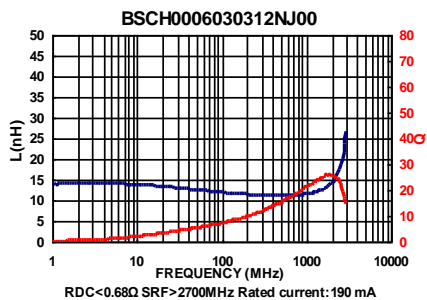
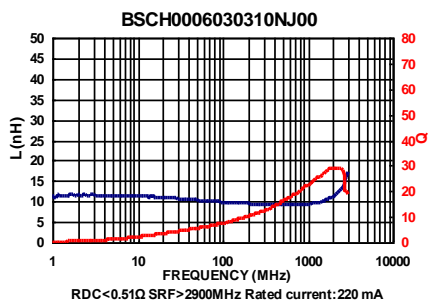
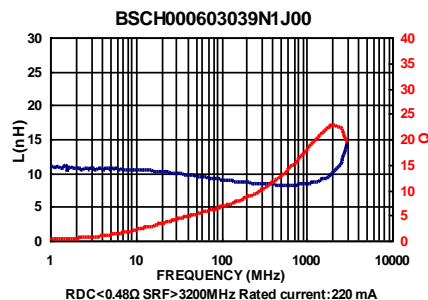
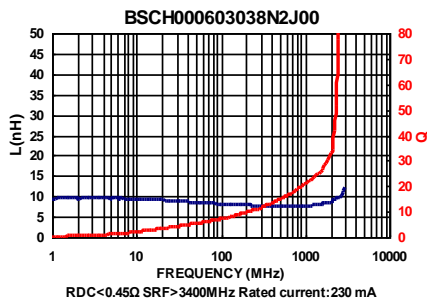
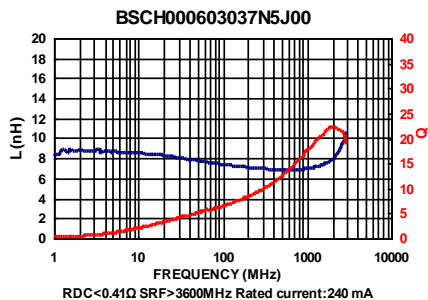
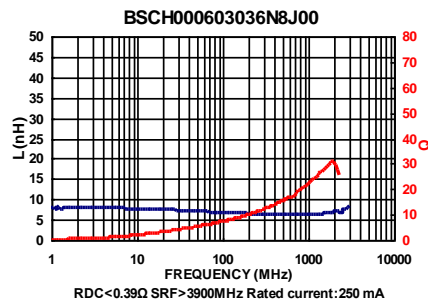
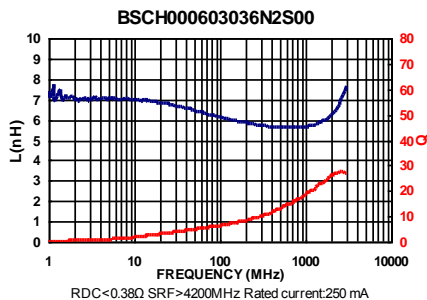
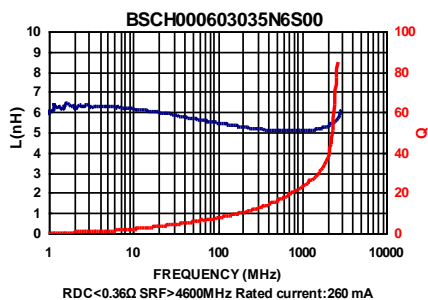
Test Instruments : Agilent E4991A Material/Impedance Analyzer



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SMD Ceramic Multilayer Chip Inductors – BSCH Series

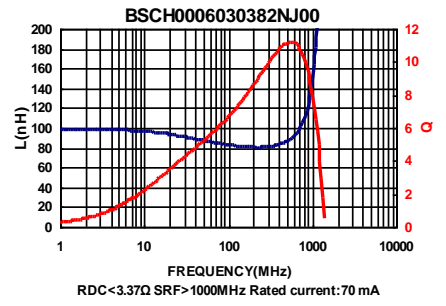
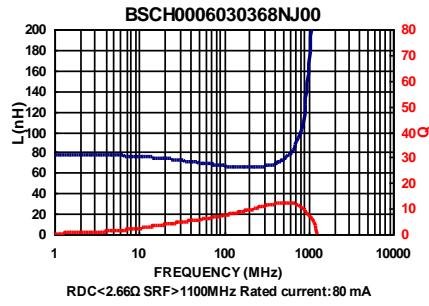
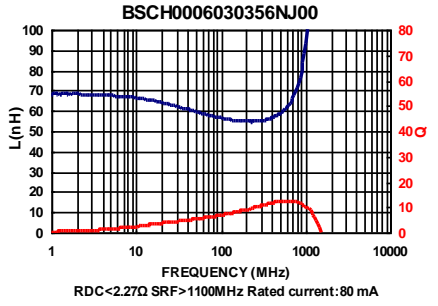
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SMD Ceramic Multilayer Chip Inductors – BSCH Series

Test Instruments : Agilent E4991A Material/Impedance Analyzer



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SMD Multilayer Ceramic Chip Inductors – BSCH Series

Electrical Characteristics

| Part Number | Inductance (nH) | Tolerance (±%) | Test Frequency (MHz) | Q Min | SRF (MHz) Typ. | RDC (Ω) Max | IDC (mA) Max |
|--------------------|-----------------|----------------|----------------------|-------|----------------|-------------|--------------|
| BSCH001005051N0□CS | 1.0 | ±0.3nH | 100 | 8 | 10000 | 0.07 | 400 |
| BSCH001005051N1□CS | 1.1 | ±0.3nH | 100 | 8 | 10000 | 0.10 | 400 |
| BSCH001005051N2□CS | 1.2 | ±0.3nH | 100 | 8 | 10000 | 0.09 | 400 |
| BSCH001005051N3□CS | 1.3 | ±0.3nH | 100 | 8 | 9000 | 0.10 | 400 |
| BSCH001005051N5□CS | 1.5 | ±0.3nH | 100 | 8 | 9000 | 0.10 | 400 |
| BSCH001005051N6□CS | 1.6 | ±0.3nH | 100 | 8 | 8700 | 0.10 | 400 |
| BSCH001005051N8□CS | 1.8 | ±0.3nH | 100 | 8 | 8700 | 0.10 | 400 |
| BSCH001005052N0□CS | 2.0 | ±0.3nH | 100 | 8 | 8100 | 0.10 | 400 |
| BSCH001005052N2□CS | 2.2 | ±0.3nH | 100 | 8 | 8100 | 0.12 | 400 |
| BSCH001005052N4□CS | 2.4 | ±0.3nH | 100 | 8 | 7700 | 0.15 | 400 |
| BSCH001005052N7□CS | 2.7 | ±0.3nH | 100 | 8 | 7700 | 0.15 | 400 |
| BSCH001005053N0□CS | 3.0 | ±0.3nH | 100 | 8 | 6300 | 0.15 | 400 |
| BSCH001005053N3□CS | 3.3 | ±0.3nH/10 | 100 | 8 | 6300 | 0.15 | 400 |
| BSCH001005053N6□CS | 3.6 | ±0.3nH/10 | 100 | 8 | 6100 | 0.15 | 400 |
| BSCH001005053N9□CS | 3.9 | ±0.3nH/10 | 100 | 8 | 6100 | 0.18 | 400 |
| BSCH001005054N3□CS | 4.3 | ±0.3nH/10 | 100 | 8 | 6000 | 0.18 | 400 |
| BSCH001005054N7□CS | 4.7 | ±0.3nH/10 | 100 | 8 | 6000 | 0.18 | 400 |
| BSCH001005055N0□CS | 5.0 | ±0.3nH/10 | 100 | 8 | 5100 | 0.20 | 400 |
| BSCH001005055N1□CS | 5.1 | ±0.3nH/10 | 100 | 8 | 5300 | 0.20 | 400 |
| BSCH001005055N6□CS | 5.6 | ±0.3nH/10 | 100 | 8 | 5100 | 0.20 | 400 |
| BSCH001005056N8□CS | 6.8 | 5 / 10 | 100 | 8 | 4550 | 0.24 | 400 |
| BSCH001005057N5□CS | 7.5 | 5 / 10 | 100 | 8 | 4200 | 0.24 | 300 |
| BSCH001005058N0□CS | 8.0 | 5 / 10 | 100 | 8 | 4100 | 0.30 | 300 |
| BSCH001005058N2□CS | 8.2 | 5 / 10 | 100 | 8 | 4100 | 0.24 | 300 |
| BSCH001005059N1□CS | 9.1 | 5 / 10 | 100 | 8 | 3900 | 0.26 | 300 |
| BSCH0010050510N□CS | 10 | 5 / 10 | 100 | 8 | 3900 | 0.26 | 300 |
| BSCH0010050512N□CS | 12 | 5 / 10 | 100 | 8 | 3000 | 0.40 | 300 |
| BSCH0010050515N□CS | 15 | 5 / 10 | 100 | 8 | 2800 | 0.50 | 300 |
| BSCH0010050518N□CS | 18 | 5 / 10 | 100 | 8 | 2500 | 0.55 | 300 |
| BSCH0010050522N□CS | 22 | 5 / 10 | 100 | 8 | 2200 | 0.70 | 300 |
| BSCH0010050524N□CS | 24 | 5 / 10 | 100 | 8 | 2100 | 0.70 | 300 |
| BSCH0010050527N□CS | 27 | 5 / 10 | 100 | 8 | 2000 | 0.80 | 300 |
| BSCH0010050533N□CS | 33 | 5 / 10 | 100 | 8 | 1800 | 0.9 | 200 |
| BSCH0010050539N□CS | 39 | 5 / 10 | 100 | 8 | 1600 | 1.0 | 150 |
| BSCH0010050547N□CS | 47 | 5 / 10 | 100 | 8 | 1400 | 1.2 | 150 |

Note: When ordering, please specify tolerance code. Tolerance : S=±0.3nH , J=±5% , K=±10%

- Operating temperature range - 55°C ~ 125°C(Including self - temperature rise)
- IDC : Applied the current to coils, the inductance shall be less than 10% initial value
- Residual impedance of short chip : 0nH
- Measure Equipment :
L & Q : Agilent E4991A+Agilent 16197A
SRF : HP8753D
RDC : HP4338B or CHEN HWA 502

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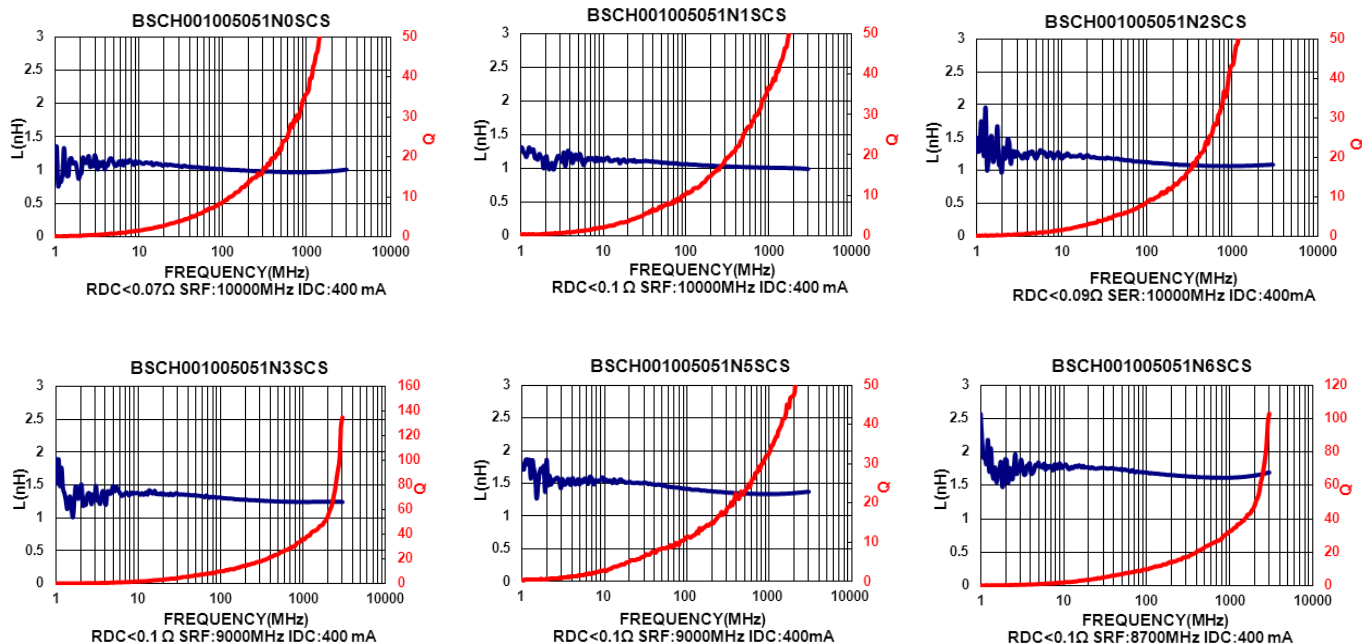
Electrical Characteristics

| Part Number | Inductance (nH) | Tolerance (±%) | Test Frequency (MHz) | Q Min | SRF (MHz) Typ. | RDC (Ω) Max | IDC (mA) Max |
|--------------------|-----------------|----------------|----------------------|-------|----------------|-------------|--------------|
| BSCH0010050556N□CS | 56 | 5 / 10 | 100 | 8 | 1300 | 1.3 | 150 |
| BSCH0010050568N□CS | 68 | 5 / 10 | 100 | 8 | 1100 | 1.5 | 100 |
| BSCH0010050575N□CS | 75 | 5 / 10 | 100 | 8 | 1080 | 1.5 | 100 |
| BSCH0010050582N□CS | 82 | 5 / 10 | 100 | 8 | 1000 | 1.6 | 100 |
| BSCH00100505R10□CS | 100 | 5 / 10 | 100 | 8 | 900 | 2.0 | 100 |
| BSCH00100505R12□CS | 120 | 5 / 10 | 100 | 8 | 800 | 2.2 | 100 |
| BSCH00100505R15□CS | 150 | 5 / 10 | 100 | 8 | 700 | 3.5 | 100 |
| BSCH00100505R18□CS | 180 | 5 / 10 | 100 | 8 | 600 | 3.8 | 100 |
| BSCH00100505R22□CS | 220 | 5 / 10 | 100 | 8 | 500 | 4.2 | 100 |
| BSCH00100505R27□CS | 270 | 5 / 10 | 100 | 8 | 500 | 4.8 | 100 |

Note: When ordering, please specify tolerance code. Tolerance : S=±0.3nH , J=±5% , K=±10%

- Operating temperature range - 55°C ~ 125°C(Including self - temperature rise)
- IDC : Applied the current to coils, the inductance shall be less than 10% initial value
- Residual impedance of short chip : 0nH
- Measure Equipment :
L & Q : Agilent E4991A+Agilent 16197A
SRF : HP8753D
RDC : HP4338B or CHEN HWA 502

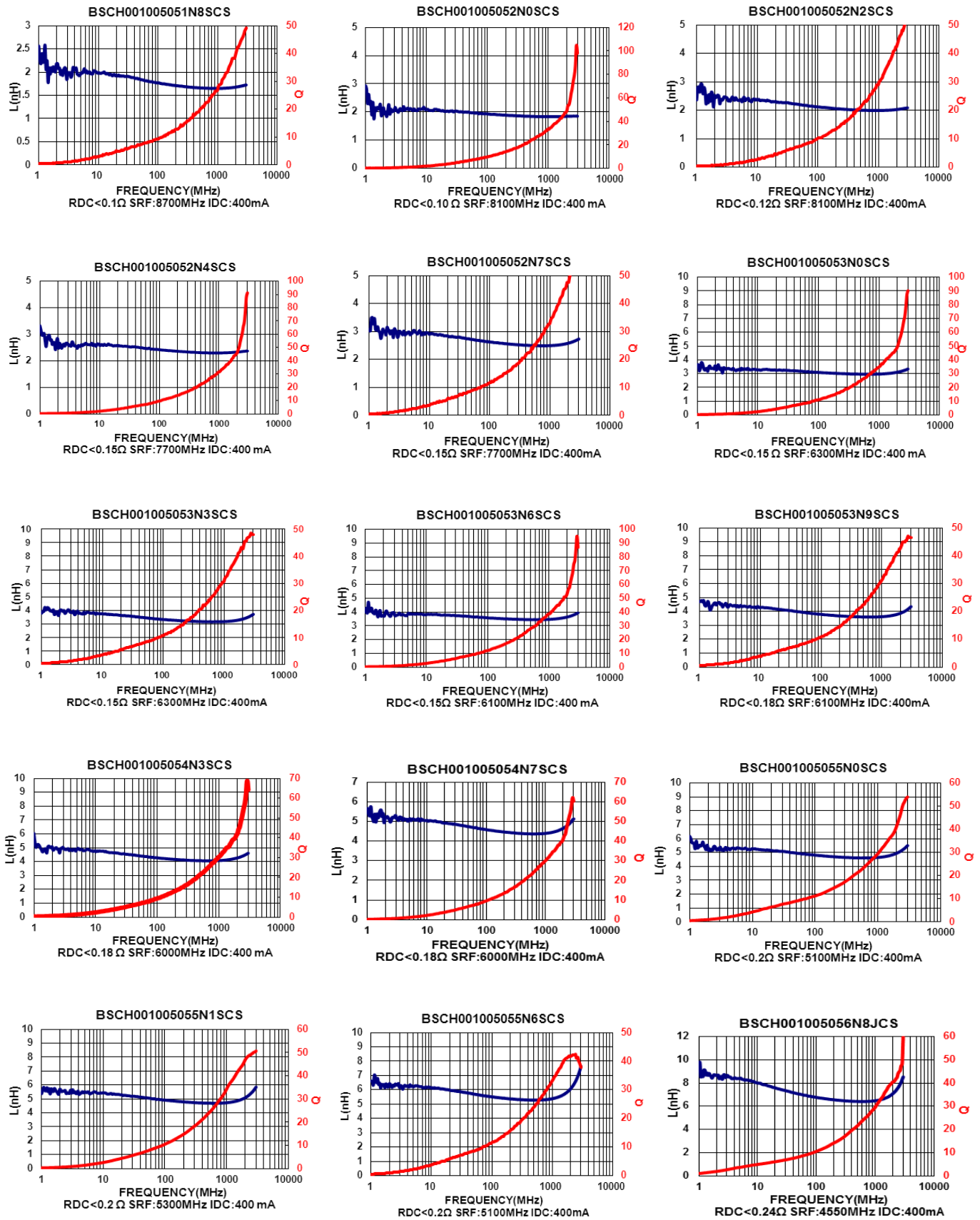
Test Instruments : Agilent E4991A Material/Impedance Analyzer



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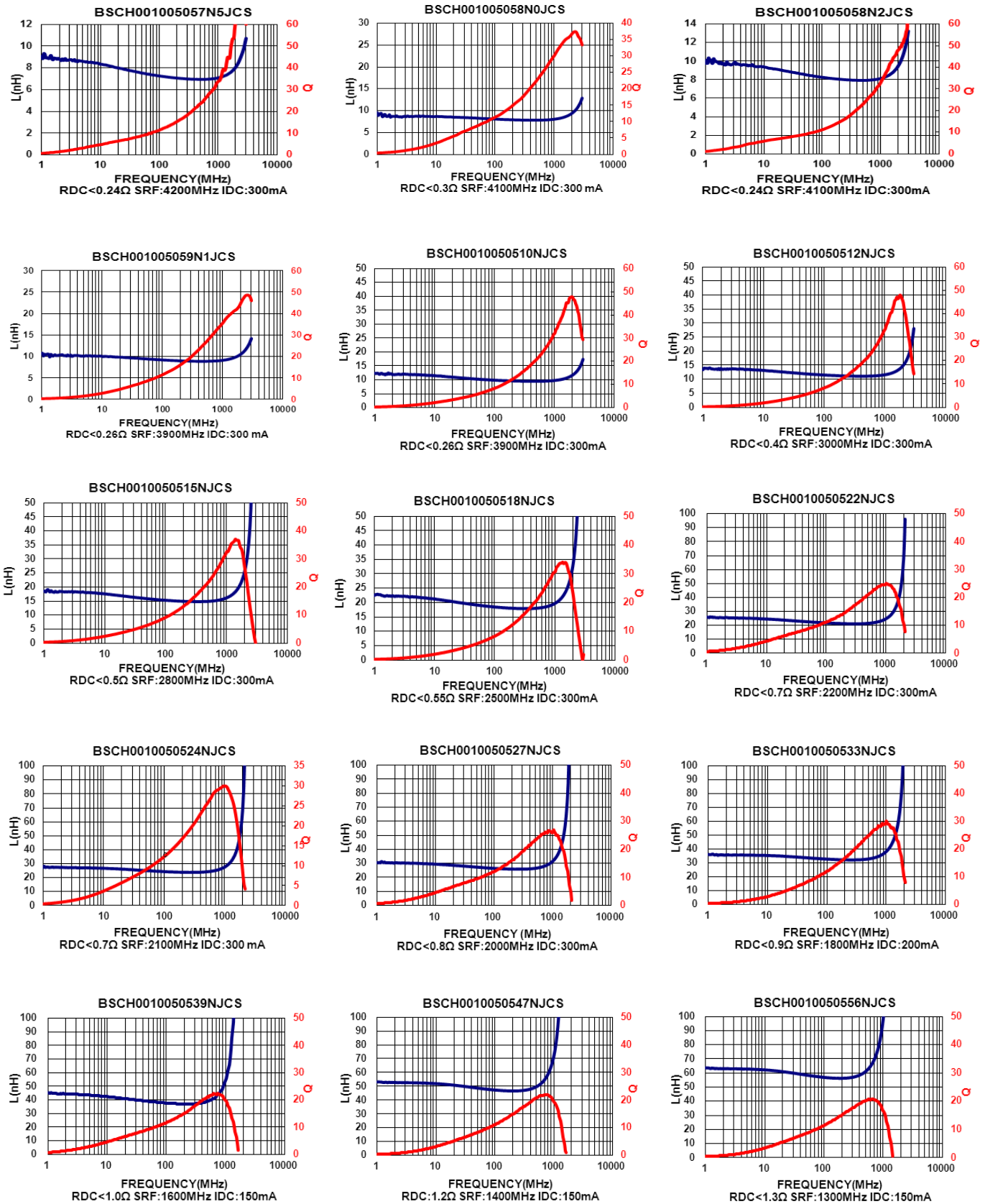
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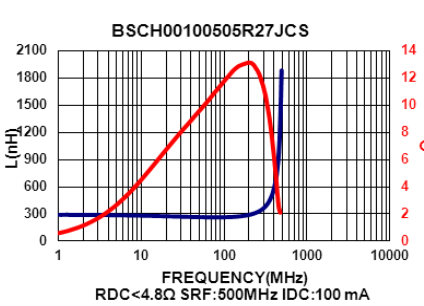
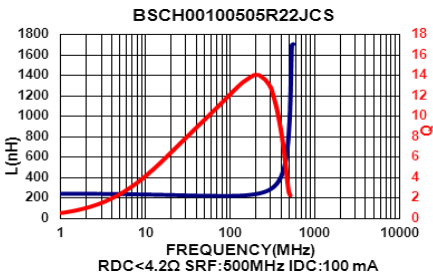
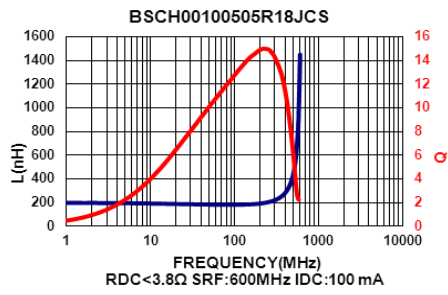
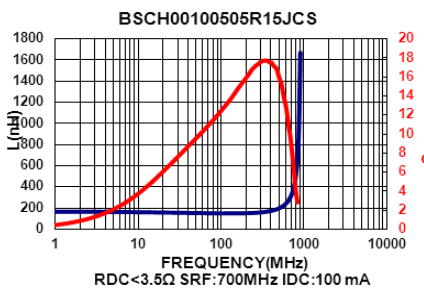
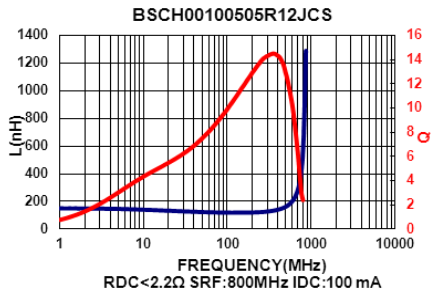
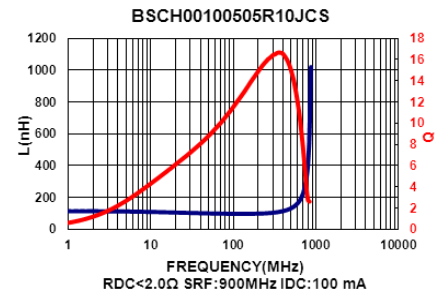
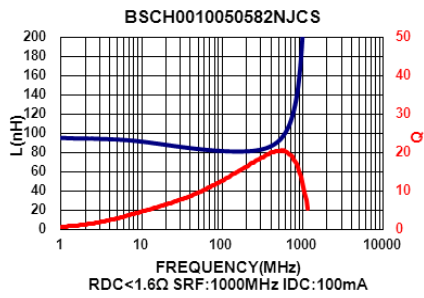
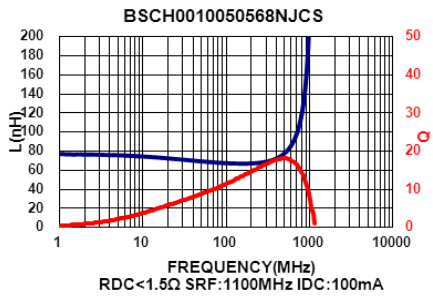
Test Instruments : Agilent E4991A Material/Impedance Analyzer



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SMD Multilayer Ceramic Chip Inductors – BSCH Series

Test Instruments : Agilent E4991A Material/Impedance Analyzer



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SMD Multilayer Ceramic Chip Inductors - BSCH Series

Electrical Characteristics

| Part Number | Inductance (nH) | Tolerance (±%) | Test Frequency (MHz) | Q Min | SRF (MHz) Typ. | RDC (Ω) Max | Rated Current (mA) Max |
|--------------------|-----------------|----------------|----------------------|-------|----------------|-------------|------------------------|
| BSCH001005051N0□CP | 1.0 | ±0.3nH | 100 | 8 | 10000 | 0.07 | 400 |
| BSCH001005051N1□CP | 1.1 | ±0.3nH | 100 | 8 | 10000 | 0.10 | 400 |
| BSCH001005051N2□CP | 1.2 | ±0.3nH | 100 | 8 | 10000 | 0.09 | 400 |
| BSCH001005051N3□CP | 1.3 | ±0.3nH | 100 | 8 | 9000 | 0.10 | 400 |
| BSCH001005051N5□CP | 1.5 | ±0.3nH | 100 | 8 | 9000 | 0.10 | 400 |
| BSCH001005051N6□CP | 1.6 | ±0.3nH | 100 | 8 | 8700 | 0.10 | 400 |
| BSCH001005051N8□CP | 1.8 | ±0.3nH | 100 | 8 | 8700 | 0.10 | 400 |
| BSCH001005052N0□CP | 2.0 | ±0.3nH | 100 | 8 | 8100 | 0.10 | 400 |
| BSCH001005052N2□CP | 2.2 | ±0.3nH | 100 | 8 | 8100 | 0.12 | 400 |
| BSCH001005052N4□CP | 2.4 | ±0.3nH | 100 | 8 | 7700 | 0.15 | 400 |
| BSCH001005052N7□CP | 2.7 | ±0.3nH | 100 | 8 | 7700 | 0.15 | 400 |
| BSCH001005053N0□CP | 3.0 | ±0.3nH | 100 | 8 | 6300 | 0.15 | 400 |
| BSCH001005053N3□CP | 3.3 | ±0.3nH | 100 | 8 | 6300 | 0.15 | 400 |
| BSCH001005053N6□CP | 3.6 | ±0.3nH | 100 | 8 | 6100 | 0.15 | 400 |
| BSCH001005053N9□CP | 3.9 | ±0.3nH | 100 | 8 | 6100 | 0.18 | 400 |
| BSCH001005054N3□CP | 4.3 | ±0.3nH | 100 | 8 | 6000 | 0.18 | 400 |
| BSCH001005054N7□CP | 4.7 | ±0.3nH | 100 | 8 | 6000 | 0.18 | 400 |
| BSCH001005055N1□CP | 5.1 | ±0.3nH | 100 | 8 | 5300 | 0.20 | 400 |
| BSCH001005055N6□CP | 5.6 | ±0.3nH | 100 | 8 | 5100 | 0.20 | 400 |
| BSCH001005056N2□CP | 6.2 | ±0.3nH/5/10 | 100 | 8 | 4500 | 0.22 | 400 |
| BSCH001005056N8□CP | 6.8 | 5 / 10 | 100 | 8 | 4550 | 0.24 | 400 |
| BSCH001005057N5□CP | 7.5 | 5 / 10 | 100 | 8 | 4200 | 0.24 | 300 |
| BSCH001005058N2□CP | 8.2 | 5 / 10 | 100 | 8 | 4100 | 0.24 | 300 |
| BSCH001005059N1□CP | 9.1 | 5 / 10 | 100 | 8 | 3900 | 0.26 | 300 |
| BSCH0010050510N□CP | 10 | 5 / 10 | 100 | 8 | 3900 | 0.26 | 300 |
| BSCH0010050512N□CP | 12 | 5 / 10 | 100 | 8 | 3000 | 0.28 | 300 |
| BSCH0010050515N□CP | 15 | 5 / 10 | 100 | 8 | 2500 | 0.32 | 300 |
| BSCH0010050518N□CP | 18 | 5 / 10 | 100 | 8 | 2200 | 0.36 | 300 |
| BSCH0010050522N□CP | 22 | 5 / 10 | 100 | 8 | 1900 | 0.42 | 300 |
| BSCH0010050527N□CP | 27 | 5 / 10 | 100 | 8 | 1700 | 0.46 | 300 |
| BSCH0010050533N□CP | 33 | 5 / 10 | 100 | 8 | 1600 | 0.58 | 200 |
| BSCH0010050539N□CP | 39 | 5 / 10 | 100 | 8 | 1200 | 0.65 | 200 |
| BSCH0010050547N□CP | 47 | 5 / 10 | 100 | 8 | 1000 | 0.72 | 200 |
| BSCH0010050556N□CP | 56 | 5 / 10 | 100 | 8 | 800 | 0.82 | 200 |
| BSCH0010050568N□CP | 68 | 5 / 10 | 100 | 8 | 800 | 0.92 | 180 |
| BSCH0010050582N□CP | 82 | 5 / 10 | 100 | 8 | 700 | 1.20 | 150 |

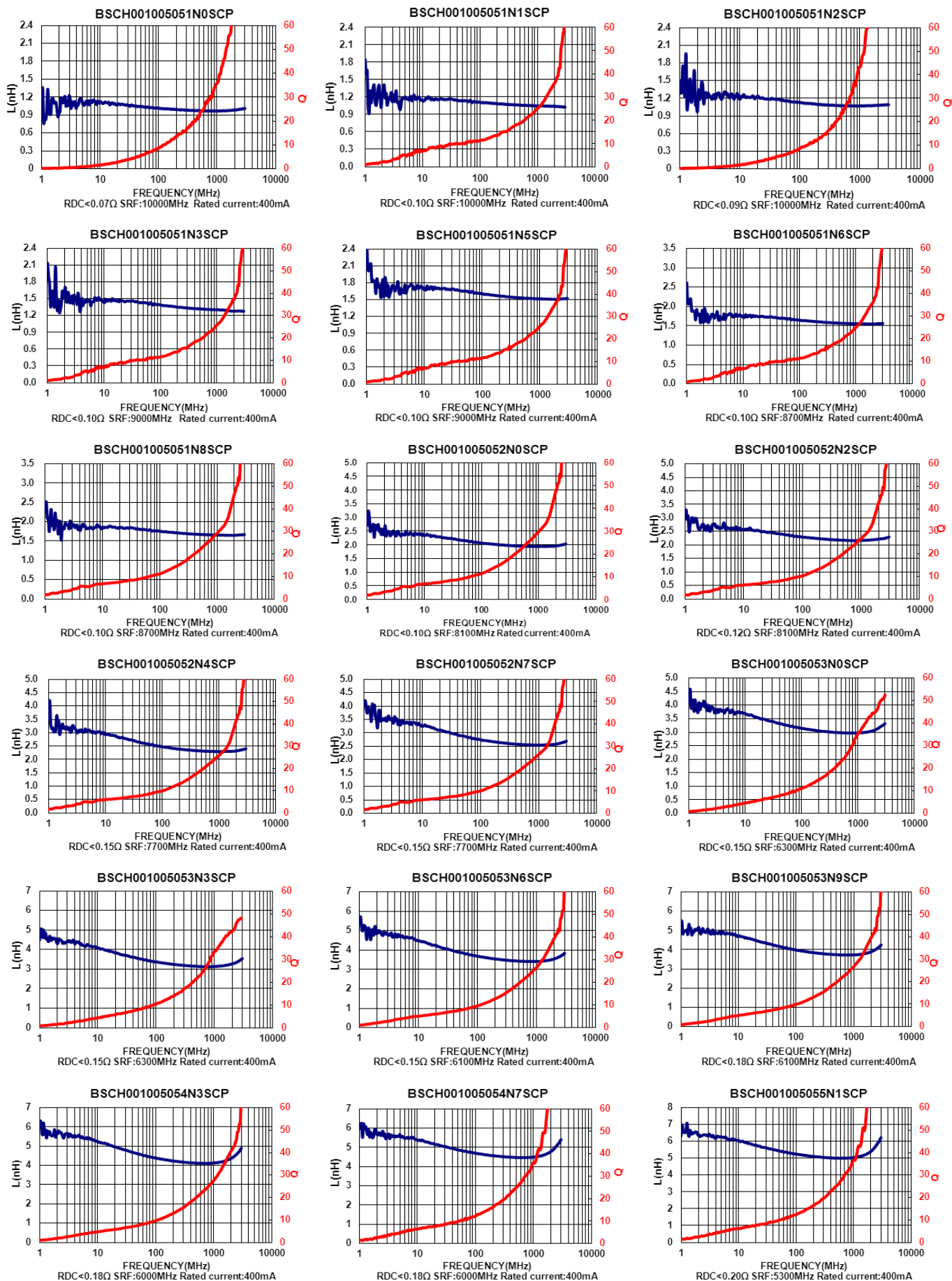
Note: When ordering, please specify tolerance code. Tolerance : C=±0.2nH , S=±0.3nH , J=±5% , K=±10%

- Operating temperature range - 55°C ~ 125°C(Including self - temperature rise)
- Rate Current : Applied the current to coils, the temperature rise shall not be more than 30°C
- Residual impedance of short chip : 0nH
- Measure Equipment :
L & Q : Agilent E4991A+Agilent 16197A
SRF : HP8753D
RDC : HP4338B or CHEN HWA 502

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SMD Multilayer Ceramic Chip Inductors - BSCH Series

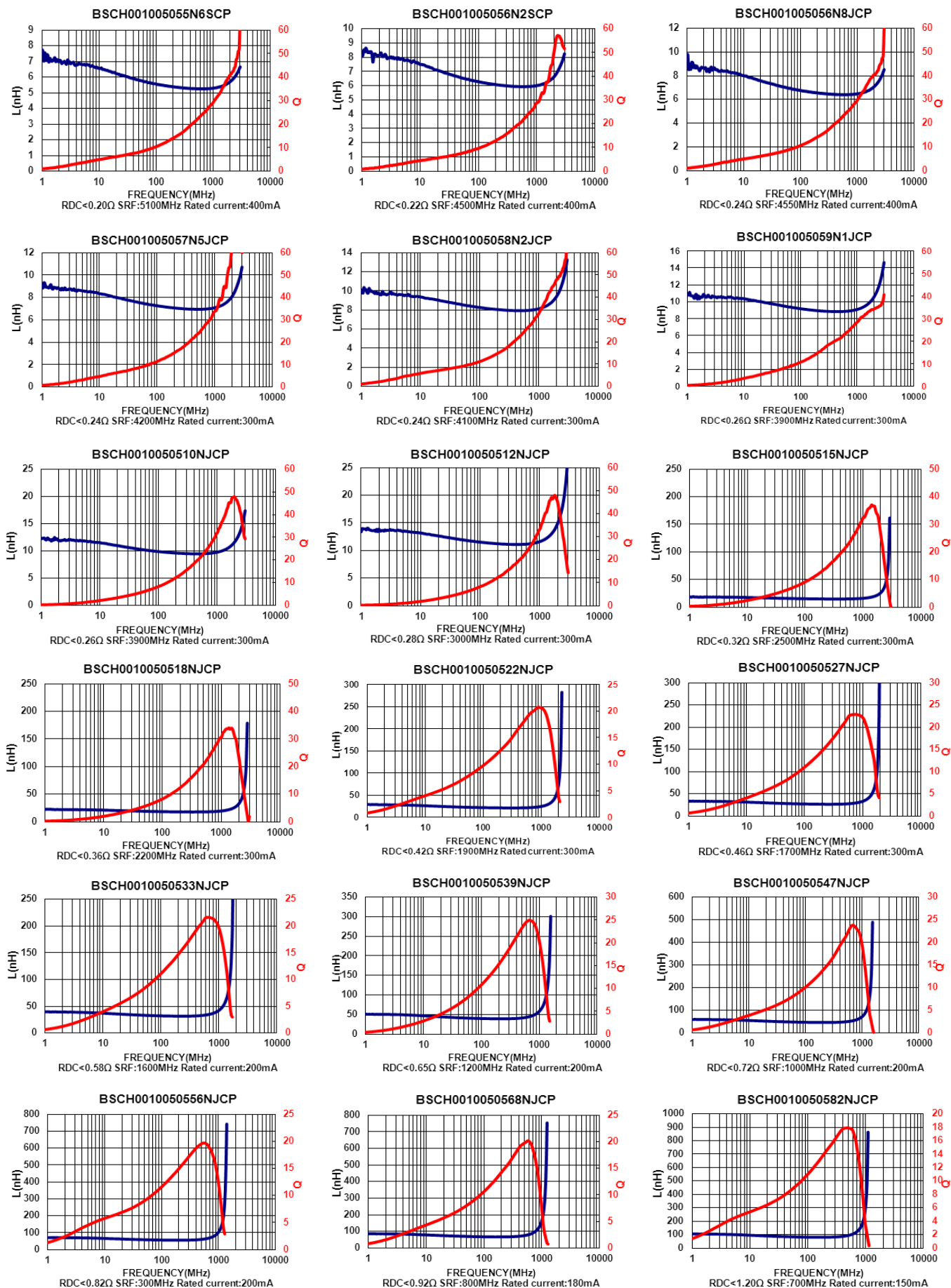
Test Instruments : Agilent E4991A Material/Impedance Analyzer



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SMD Multilayer Ceramic Chip Inductors - BSCH Series

Test Instruments : Agilent E4991A Material/Impedance Analyzer



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SMD Multilayer Ceramic Chip Inductors – BSCH Series

Electrical Characteristics

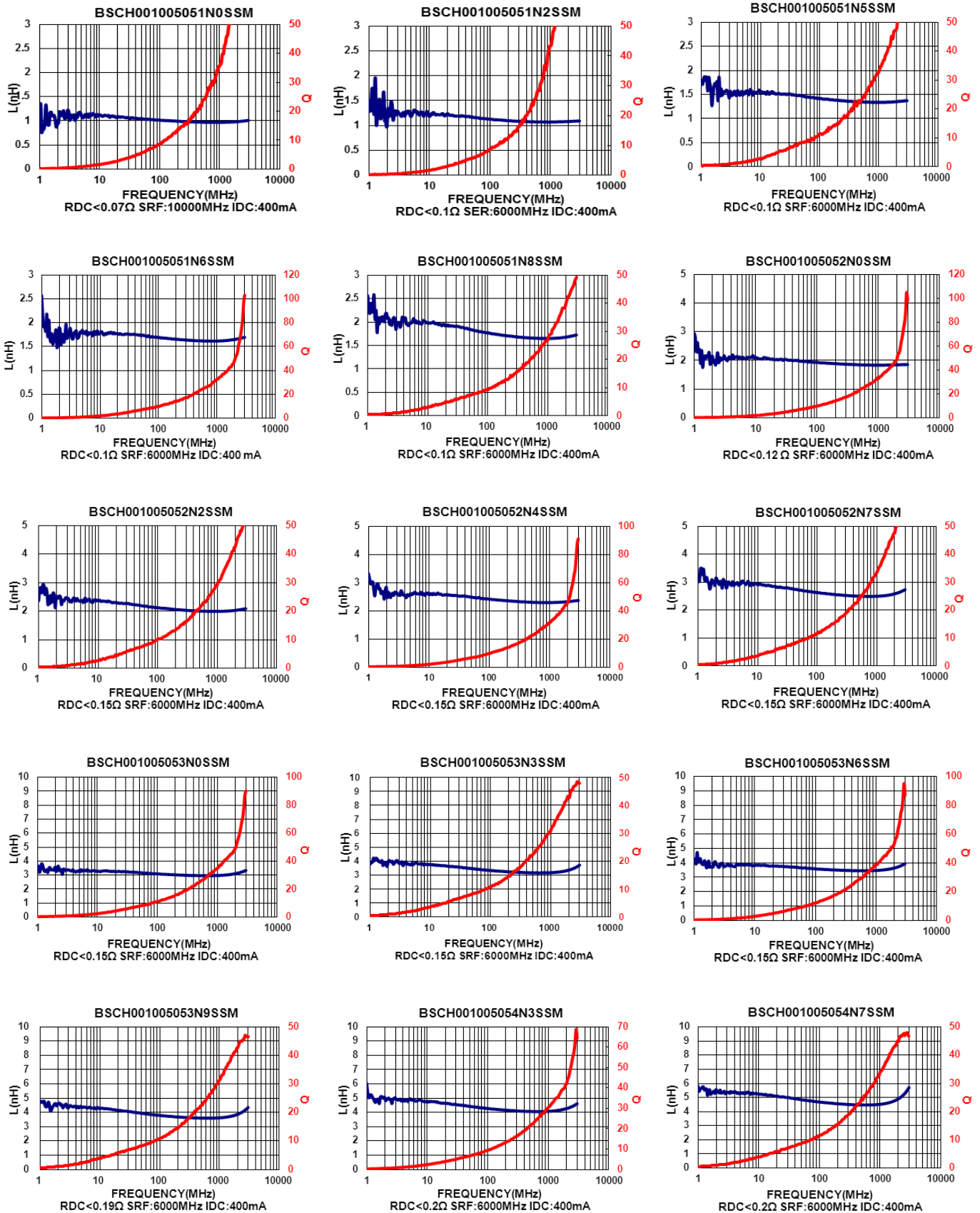
| Part Number | Inductance (nH) | Tolerance (±%) | Test Frequency (MHz) | Q Min | SRF (MHz) Min | RDC (Ω) Max | IDC (mA) Max |
|--------------------|-----------------|----------------|----------------------|-------|---------------|-------------|--------------|
| BSCH001005051N0□SM | 1.0 | ±0.3nH | 100 | 8 | 10000 | 0.07 | 400 |
| BSCH001005051N2□SM | 1.2 | ±0.3nH | 100 | 8 | 6000 | 0.10 | 400 |
| BSCH001005051N5□SM | 1.5 | ±0.3nH | 100 | 8 | 6000 | 0.10 | 400 |
| BSCH001005051N6□SM | 1.6 | ±0.3nH | 100 | 8 | 6000 | 0.10 | 400 |
| BSCH001005051N8□SM | 1.8 | ±0.3nH | 100 | 8 | 6000 | 0.10 | 400 |
| BSCH001005052N0□SM | 2.0 | ±0.3nH | 100 | 8 | 6000 | 0.12 | 400 |
| BSCH001005052N2□SM | 2.2 | ±0.3nH | 100 | 8 | 6000 | 0.15 | 400 |
| BSCH001005052N4□SM | 2.4 | ±0.3nH | 100 | 8 | 6000 | 0.15 | 400 |
| BSCH001005052N7□SM | 2.7 | ±0.3nH | 100 | 8 | 6000 | 0.15 | 400 |
| BSCH001005053N0□SM | 3.0 | ±0.3nH | 100 | 8 | 6000 | 0.15 | 400 |
| BSCH001005053N3□SM | 3.3 | ±0.3nH | 100 | 8 | 6000 | 0.15 | 400 |
| BSCH001005053N6□SM | 3.6 | ±0.3nH | 100 | 8 | 6000 | 0.15 | 400 |
| BSCH001005053N9□SM | 3.9 | ±0.3nH | 100 | 8 | 6000 | 0.19 | 400 |
| BSCH001005054N3□SM | 4.3 | ±0.3nH | 100 | 8 | 6000 | 0.20 | 400 |
| BSCH001005054N7□SM | 4.7 | ±0.3nH | 100 | 8 | 6000 | 0.20 | 400 |
| BSCH001005055N1□SM | 5.1 | ±0.3nH | 100 | 8 | 6000 | 0.20 | 400 |
| BSCH001005055N6□SM | 5.6 | ±0.3nH | 100 | 8 | 5300 | 0.20 | 400 |
| BSCH001005056N2□SM | 6.2 | 5 | 100 | 8 | 4300 | 0.25 | 400 |
| BSCH001005056N8□SM | 6.8 | 5 | 100 | 8 | 4200 | 0.25 | 400 |
| BSCH001005057N5□SM | 7.5 | 5 | 100 | 8 | 3900 | 0.25 | 400 |
| BSCH001005058N2□SM | 8.2 | 5 | 100 | 8 | 3600 | 0.30 | 300 |
| BSCH001005059N1□SM | 9.1 | 5 | 100 | 8 | 3400 | 0.34 | 300 |
| BSCH0010050510N□SM | 10 | 5 | 100 | 8 | 3200 | 0.35 | 300 |
| BSCH0010050512N□SM | 12 | 5 | 100 | 8 | 2800 | 0.35 | 300 |
| BSCH0010050515N□SM | 15 | 5 | 100 | 8 | 2300 | 0.46 | 300 |

Note: When ordering, please specify tolerance code. Tolerance : S=±0.3nH , J=±5%

- Operating temperature range - 55°C ~ 125°C(Including self - temperature rise)
- IDC : Applied the current to coils, the inductance shall be less than 10% initial value
- Residual impedance of short chip : 0.55nH
- Measure Equipment :
L & Q : Agilent E4991A+Agilent 16197A
SRF : HP8753D
RDC : HP4338B or CHEN HWA 502

SMD Multilayer Ceramic Chip Inductors – BSCH Series

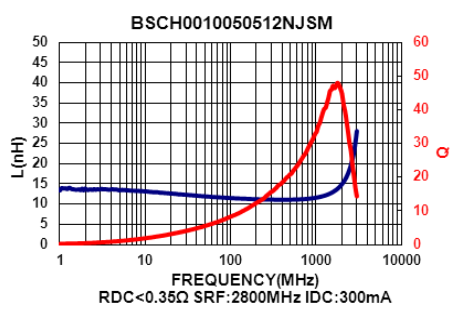
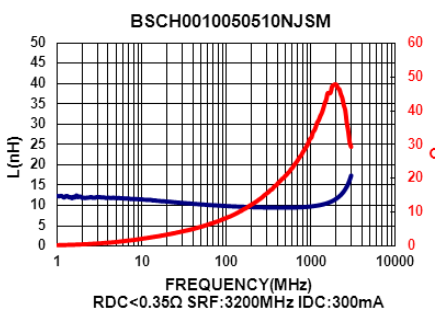
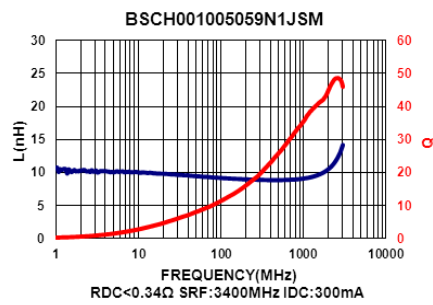
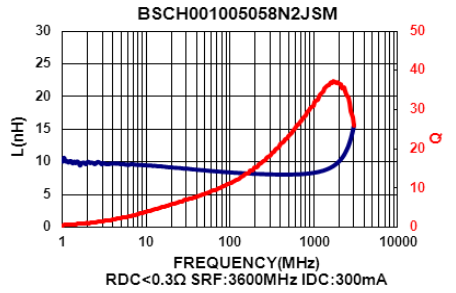
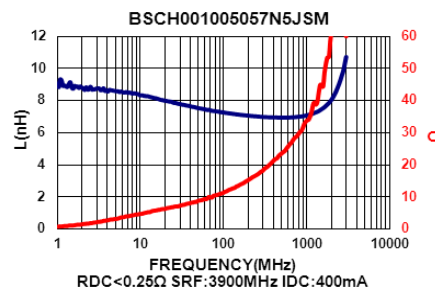
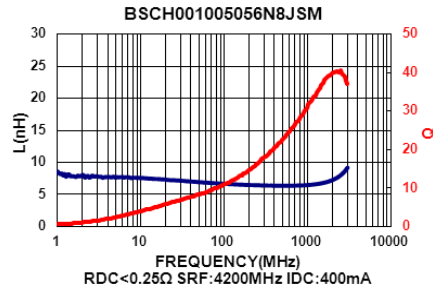
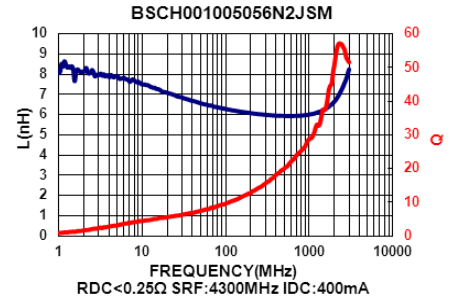
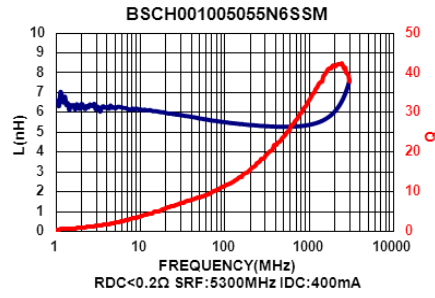
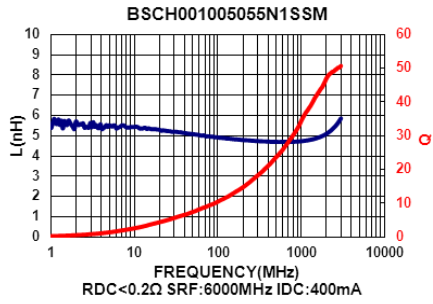
Test Instruments : Agilent E4991A Material/Impedance Analyzer



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SMD Multilayer Ceramic Chip Inductors – BSCH Series

Test Instruments : Agilent E4991A Material/Impedance Analyzer



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SMD Multilayer Ceramic Chip Inductors – BSCH Series

Electrical Characteristics

| Part Number | Inductance (nH) | Tolerance (±%) | Test Frequency (MHz) | Q Min | SRF (MHz) Typ. | RDC (Ω) Max | IDC (mA) Max |
|--------------------|-----------------|----------------|----------------------|-------|----------------|-------------|--------------|
| BSCH001608081N0S00 | 1.0 | ±0.3nH | 100 | 8 | 10000 | 0.10 | 600 |
| BSCH001608081N2S00 | 1.2 | ±0.3nH | 100 | 8 | 10000 | 0.10 | 600 |
| BSCH001608081N5S00 | 1.5 | ±0.3nH | 100 | 8 | 8000 | 0.10 | 600 |
| BSCH001608081N6S00 | 1.6 | ±0.3nH | 100 | 8 | 8000 | 0.10 | 600 |
| BSCH001608081N8S00 | 1.8 | ±0.3nH | 100 | 8 | 8000 | 0.10 | 600 |
| BSCH001608082N2S00 | 2.2 | ±0.3nH | 100 | 8 | 7200 | 0.10 | 600 |
| BSCH001608082N7S00 | 2.7 | ±0.3nH | 100 | 10 | 6200 | 0.10 | 600 |
| BSCH001608083N0S00 | 3.0 | ±0.3nH | 100 | 10 | 5200 | 0.12 | 600 |
| BSCH001608083N3□00 | 3.3 | ±0.3nH/10 | 100 | 10 | 5200 | 0.12 | 600 |
| BSCH001608083N6S00 | 3.6 | ±0.3nH | 100 | 10 | 5000 | 0.14 | 600 |
| BSCH001608083N9□00 | 3.9 | ±0.3nH/10 | 100 | 10 | 5000 | 0.14 | 600 |
| BSCH001608084N3□00 | 4.3 | ±0.3nH/10 | 100 | 10 | 4750 | 0.16 | 600 |
| BSCH001608084N7□00 | 4.7 | ±0.3nH/10 | 100 | 10 | 4750 | 0.16 | 600 |
| BSCH001608085N1□00 | 5.1 | ±0.3nH/10 | 100 | 10 | 4100 | 0.18 | 600 |
| BSCH001608085N6□00 | 5.6 | ±0.3nH/10 | 100 | 10 | 4100 | 0.18 | 600 |
| BSCH001608086N2□00 | 6.2 | 5 / 10 | 100 | 10 | 3750 | 0.22 | 600 |
| BSCH001608086N8□00 | 6.8 | 5 / 10 | 100 | 10 | 3750 | 0.22 | 600 |
| BSCH001608087N5□00 | 7.5 | 5 / 10 | 100 | 10 | 3300 | 0.24 | 600 |
| BSCH001608088N2□00 | 8.2 | 5 / 10 | 100 | 10 | 3300 | 0.24 | 600 |
| BSCH0016080810N□00 | 10 | 5 / 10 | 100 | 12 | 3000 | 0.26 | 600 |
| BSCH0016080812N□00 | 12 | 5 / 10 | 100 | 12 | 2600 | 0.28 | 600 |
| BSCH0016080815N□00 | 15 | 5 / 10 | 100 | 12 | 2500 | 0.32 | 600 |
| BSCH0016080816N□00 | 16 | 5 / 10 | 100 | 12 | 2400 | 0.35 | 600 |
| BSCH0016080818N□00 | 18 | 5 / 10 | 100 | 12 | 2400 | 0.35 | 600 |
| BSCH0016080822N□00 | 22 | 5 / 10 | 100 | 12 | 2000 | 0.40 | 500 |
| BSCH0016080827N□00 | 27 | 5 / 10 | 100 | 12 | 1900 | 0.45 | 500 |
| BSCH0016080833N□00 | 33 | 5 / 10 | 100 | 12 | 1600 | 0.55 | 400 |
| BSCH0016080839N□00 | 39 | 5 / 10 | 100 | 12 | 1400 | 0.60 | 400 |
| BSCH0016080847N□00 | 47 | 5 / 10 | 100 | 12 | 1300 | 0.70 | 400 |
| BSCH0016080856N□00 | 56 | 5 / 10 | 100 | 12 | 1100 | 0.75 | 400 |
| BSCH0016080862N□00 | 62 | 5 / 10 | 100 | 12 | 1050 | 0.85 | 400 |
| BSCH0016080868N□00 | 68 | 5 / 10 | 100 | 12 | 1050 | 0.85 | 400 |
| BSCH0016080875N□00 | 75 | 5 / 10 | 100 | 12 | 900 | 1.00 | 300 |
| BSCH0016080882N□00 | 82 | 5 / 10 | 100 | 12 | 900 | 1.00 | 300 |

Note: When ordering, please specify tolerance code. Tolerance : S=±0.3nH , J=±5% , K=±10%

- Operating temperature range - 55°C ~ 125°C(Including self - temperature rise)
- IDC : Applied the current to coils, the inductance shall be less than 10% initial value
- Residual impedance of short chip : 0nH
- Measure Equipment :
L & Q : Agilent E4991A+Agilent 16197A
SRF : HP8753D
RDC : HP4338B or CHEN HWA 502

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SMD Multilayer Ceramic Chip Inductors – BSCH Series

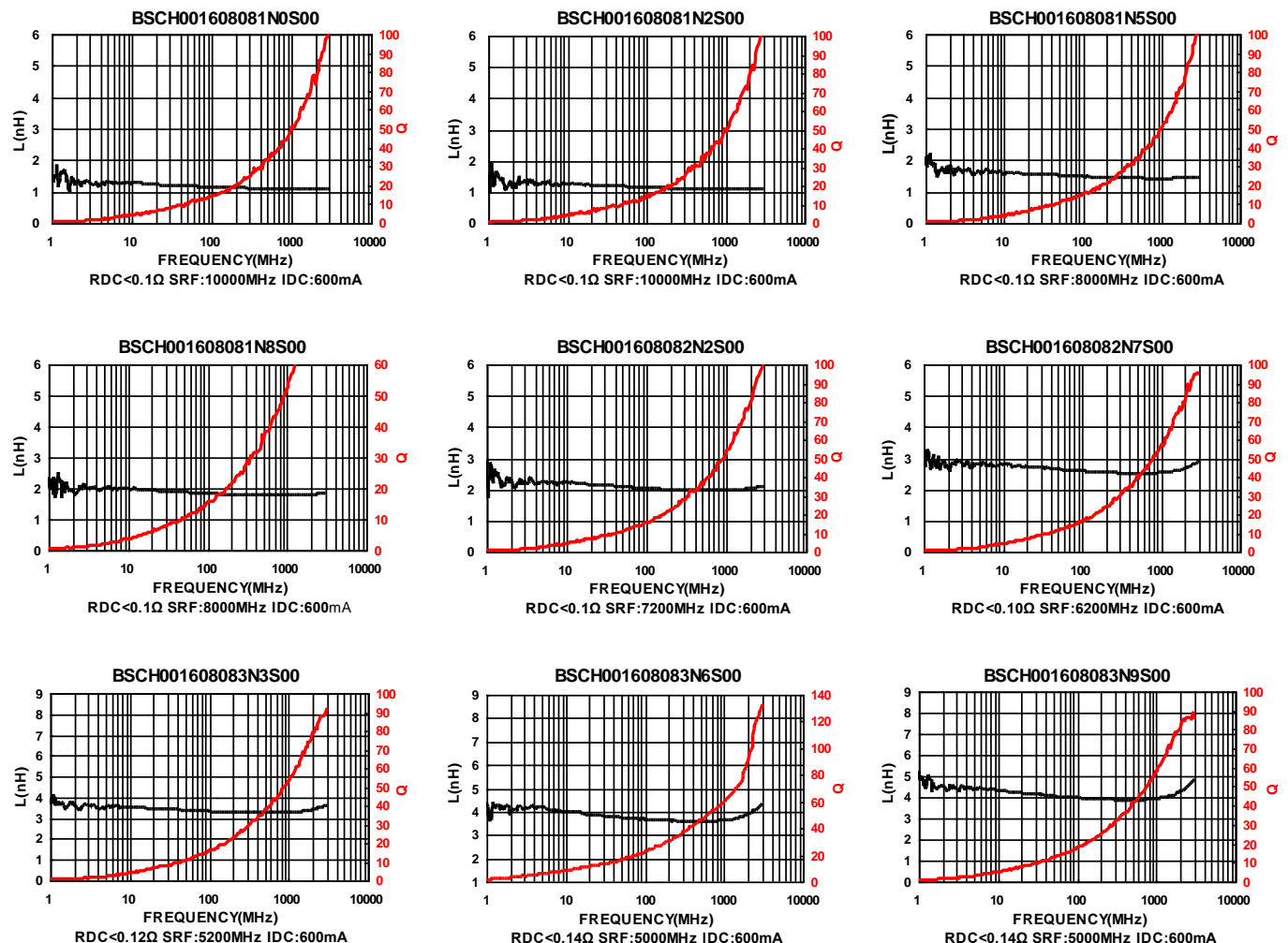
Electrical Characteristics

| Part Number | Inductance (nH) | Tolerance (±%) | Test Frequency (MHz) | Q Min | SRF (MHz) Typ. | RDC (Ω) Max | IDC (mA) Max |
|--------------------|-----------------|----------------|----------------------|-------|----------------|-------------|--------------|
| BSCH00160808R10□00 | 100 | 5 / 10 | 100 | 12 | 770 | 1.20 | 300 |
| BSCH00160808R12□00 | 120 | 5 / 10 | 50 | 8 | 650 | 1.30 | 300 |
| BSCH00160808R15□00 | 150 | 5 / 10 | 50 | 8 | 550 | 1.70 | 250 |
| BSCH00160808R18□00 | 180 | 5 / 10 | 50 | 8 | 520 | 1.90 | 250 |
| BSCH00160808R22□00 | 220 | 5 / 10 | 50 | 8 | 500 | 2.00 | 250 |
| BSCH00160808R27□00 | 270 | 5 / 10 | 50 | 8 | 470 | 2.20 | 150 |
| BSCH00160808R33□00 | 330 | 5 / 10 | 50 | 8 | 320 | 2.80 | 100 |
| BSCH00160808R39□00 | 390 | 5 / 10 | 50 | 8 | 300 | 3.00 | 100 |

Note: When ordering, please specify tolerance code. Tolerance : S=±0.3nH , J=±5% , K=±10%

- Operating temperature range - 55°C ~ 125°C(Including self - temperature rise)
- IDC : Applied the current to coils, the inductance shall be less than 10% initial value
- Residual impedance of short chip : 0nH
- Measure Equipment :
L & Q : Agilent E4991A+Agilent 16197A
SRF : HP8753D
RDC : HP4338B or CHEN HWA 502

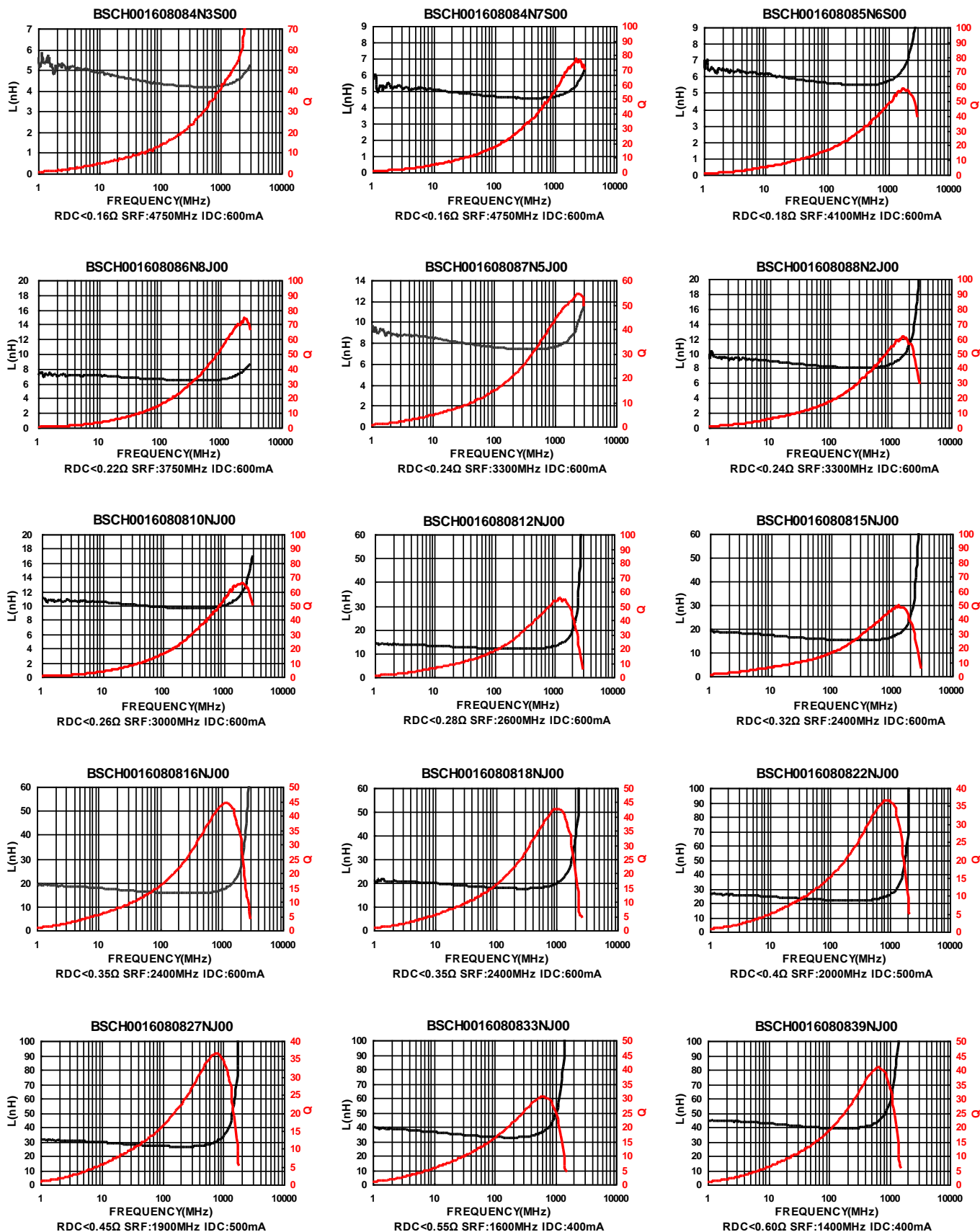
Test Instruments : Agilent E4991A Material/Impedance Analyzer



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SMD Multilayer Ceramic Chip Inductors – BSCH Series

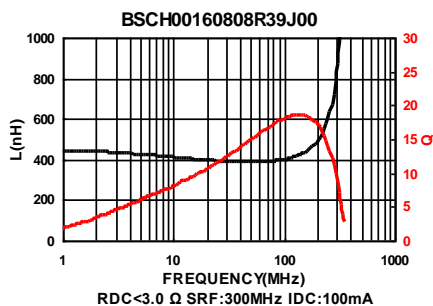
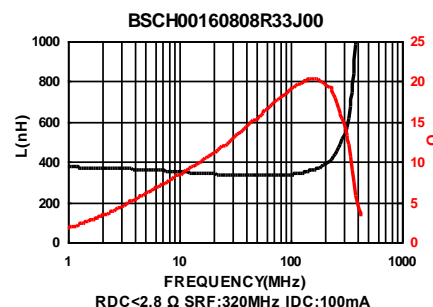
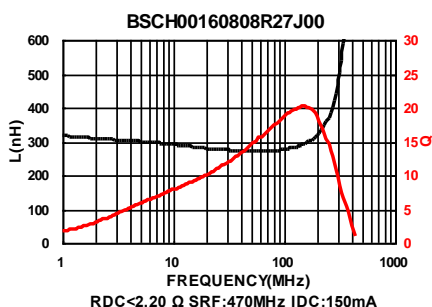
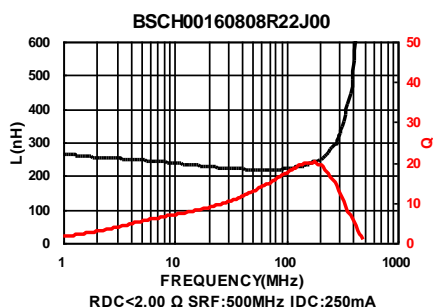
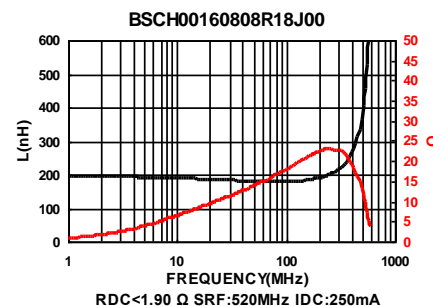
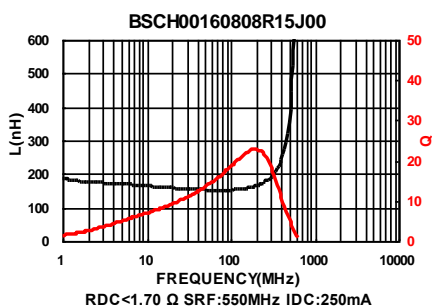
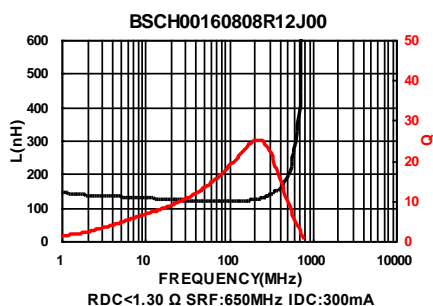
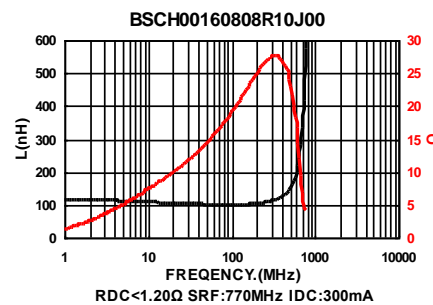
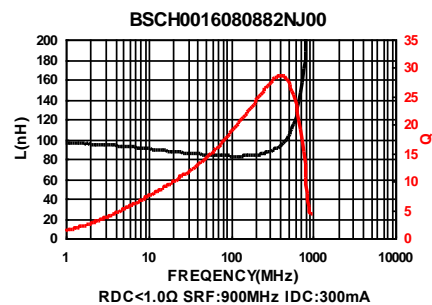
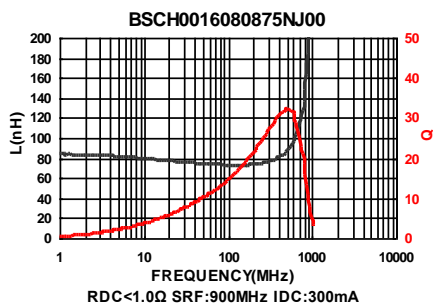
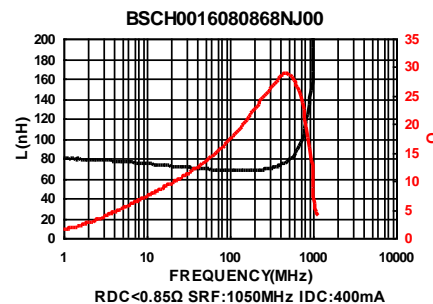
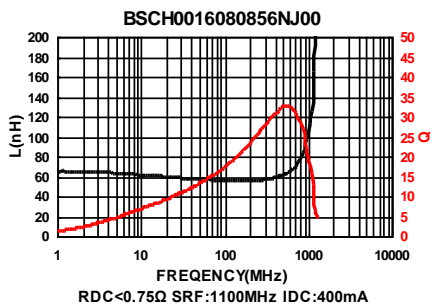
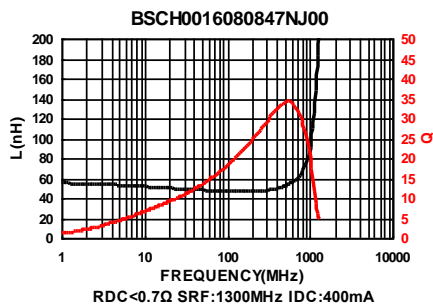
Test Instruments : Agilent E4991A Material/Impedance Analyzer



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 ordering.

SMD Multilayer Ceramic Chip Inductors – BSCH Series

Test Instruments : Agilent E4991A Material/Impedance Analyzer

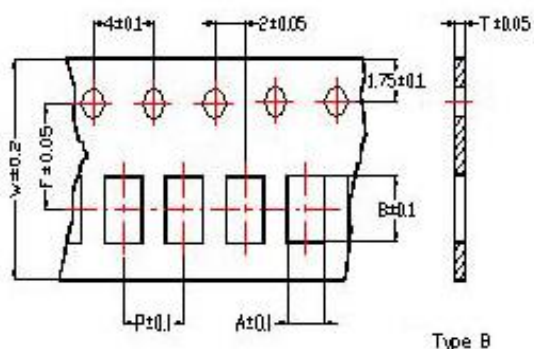


Please be sure to request approval specifications that provide further details of the products. Kindly note that the content of these specifications are subject to change or may be discontinued without prior notice. This product may not be designed/used in medical or high risk applications without Chilisin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

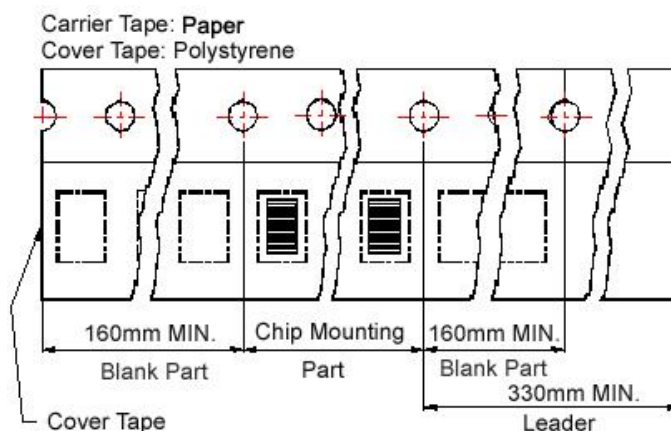
SMD Ceramic Multilayer Chip Inductors - BSCH Series

Packaging Specifications

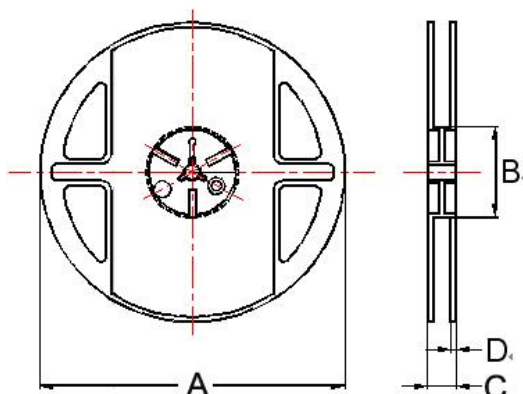
Tape Dimensions



Tape Material



Reel Dimensions



Dimensions in mm

| TYPE | Tape Dimensions | | | | | | Reel Dimensions | | | | Quantity PCS / Reel |
|--------------|-----------------|------|------|---|---|-----|-----------------|----|----|-----|------------------------|
| | A | B | T | W | P | F | A | B | C | D | |
| BSCH00060303 | 0.37 | 0.67 | 0.42 | 8 | 2 | 3.5 | 180 | 60 | 13 | 1.5 | 15000 |
| BSCH00100505 | 0.62 | 1.12 | 0.60 | 8 | 2 | 3.5 | 178 | 60 | 12 | 1.5 | 10000 |
| BSCH00160808 | 1.00 | 1.80 | 0.95 | 8 | 4 | 3.5 | 178 | 60 | 12 | 1.5 | 4000 |