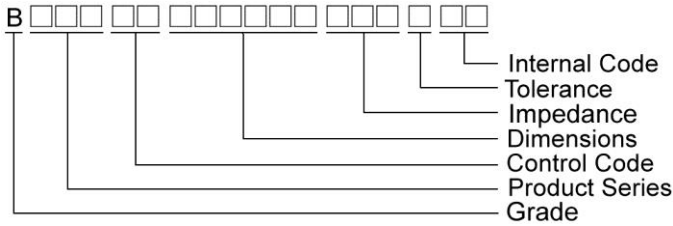


Multilayer Ferrite Chip Beads

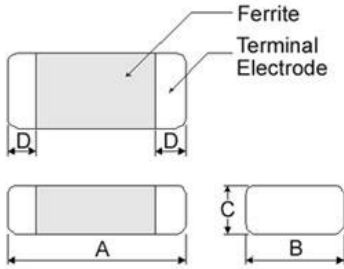


Chilisin offers a wide range of multi-layered ferrite chip beads with various sizes, frequency characteristics, and impedance values for EMI solutions. These ferrite formulas are used to compose seven types of EMI suppression chip beads: BBSY, BBBK, BBSJ, BBGK, BBPY, BBUP, BBNQ, BBFY, BBFJ and BBHV series.

Product Identification



Shape and Dimensions



Dimensions in mm

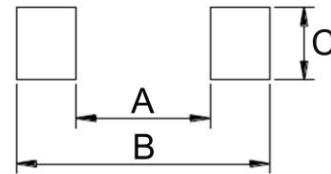
| TYPE | A | B | C | D |
|---------|----------|-----------|----------|-----------|
| ①060303 | 0.6±0.03 | 0.30±0.03 | 0.3±0.03 | 0.15±0.05 |
| ②100505 | 1.0±0.10 | 0.50±0.10 | 0.5±0.10 | 0.25±0.10 |
| ③160805 | 1.6±0.15 | 0.80±0.15 | 0.5±0.15 | 0.3±0.2 |
| ④160808 | 1.6±0.15 | 0.80±0.15 | 0.8±0.15 | 0.3±0.2 |
| ⑤201209 | 2.0±0.20 | 1.25±0.20 | 0.9±0.20 | 0.5±0.3 |
| ⑥321611 | 3.2±0.20 | 1.60±0.20 | 1.1±0.20 | 0.5±0.3 |
| ⑦453215 | 4.5±0.25 | 3.20±0.20 | 1.5±0.20 | 0.5±0.3 |

- ① : BBSY / BBSJ / BBNQ / BBPY
- ② : BBSY / BBSJ / BBNQ / BBPY / BBUP / BBFY / BBFJ
- ③ : BBUP ④ : BBBK / BBSJ / BBGK / BBPY / BBNQ / BBUP / BBHV
- ⑤ : BBBK / BBGK / BBPY / BBUP ⑥ : BBSY / BBBK / BBPY / BBUP
- ⑦ : BBPY / BBUP

Dimension Conversion

| Code | Dimension in mm (AxBxC) | EIA |
|--------|----------------------------|------|
| 060303 | 0.6X0.3X0.3 | 0201 |
| 100505 | 1.0X0.5X0.5 | 0402 |
| 160805 | 1.6x0.8x0.5 | 0603 |
| 160808 | 1.6x0.8x0.8 | 0603 |
| 201209 | 2.0x1.2x0.9 | 0805 |
| 321611 | 3.2x1.6x1.1 | 1206 |
| 453215 | 4.5x3.2x1.5 | 1812 |

Recommended Pattern



Dimensions in mm

| TYPE | A | B | C |
|---------|-----------|-------------|-----------|
| ①060303 | 0.2 ~ 0.3 | 0.75 ~ 1.05 | 0.3 |
| ②100505 | 0.4 | 1.2 ~ 1.4 | 0.5 |
| ③160805 | 0.7 ~ 0.8 | 1.8 ~ 2.0 | 0.6 ~ 0.8 |
| ④160808 | 0.7 ~ 0.8 | 1.8 ~ 2.0 | 0.6 ~ 0.8 |
| ⑤201209 | 1.0 ~ 1.2 | 2.6 ~ 4.0 | 1.0 ~ 1.4 |
| ⑥321611 | 2.0 ~ 2.4 | 4.2 ~ 5.2 | 1.3 ~ 1.9 |
| ⑦453215 | 3.0 | 5.5 ~ 6.5 | 2.4 |

* Don't apply narrower pattern than listed above to BBPY and BBUP
Narrow pattern might cause excessive heat or open circuit.

SMD Multilayer Ferrite Chip Beads – BBSY/BBBK Series

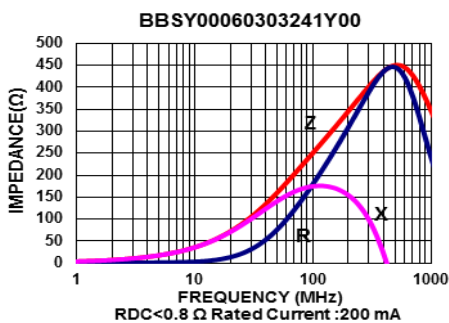
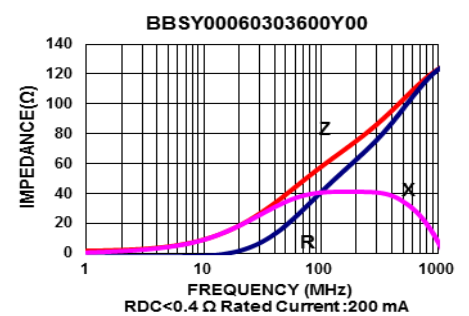
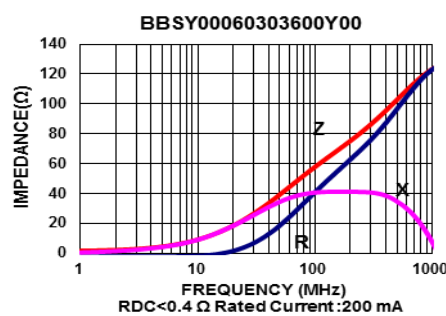
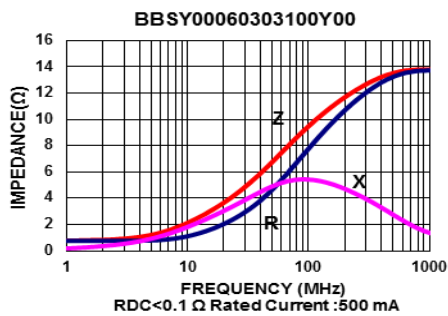
Electrical Characteristics

| Part Number | Impedance ($\Omega \pm 25\%$) | Test Frequency (MHz) | RDC (Ω) Max | Rated current (mA) Max |
|--------------------|------------------------------------|-------------------------|-------------------------|---------------------------|
| BBSY00060303100Y00 | 10 | 100 | 0.1 | 500 |
| BBSY00060303600Y00 | 60 | 100 | 0.4 | 200 |
| BBSY00060303121Y00 | 120 | 100 | 0.5 | 200 |
| BBSY00060303241Y00 | 240 | 100 | 0.8 | 200 |

Note: When ordering, please specify tolerance code. Tolerance : Y= $\pm 25\%$

- 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
- Measure Equipment :
Z : HP4291A
RDC : HP4338B or CHEN HWA 502

Test Instruments : Agilent E4991A Impedance / Material Analyzer



SMD Multilayer Ferrite Chip Beads – BBSY/BBBK Series

Electrical Characteristics

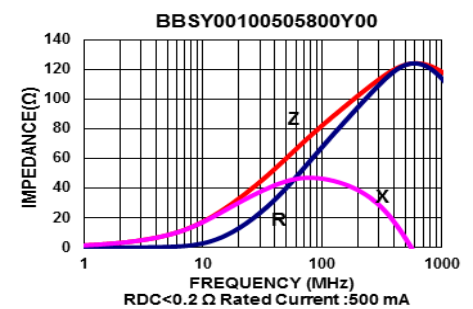
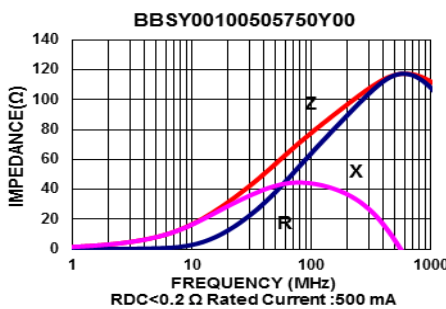
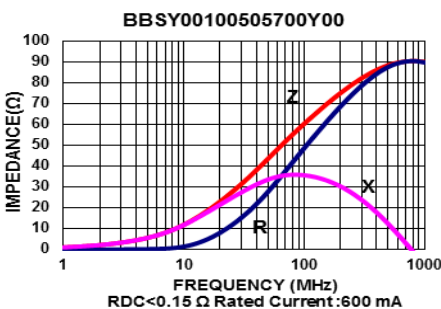
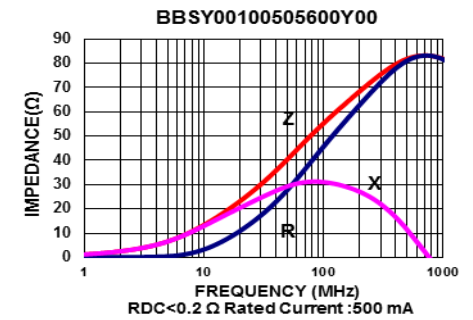
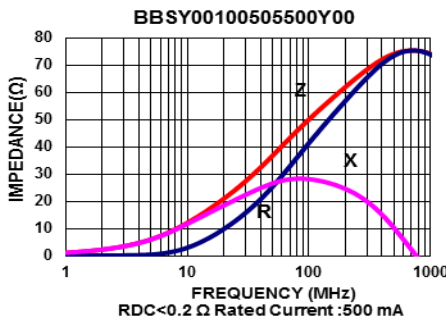
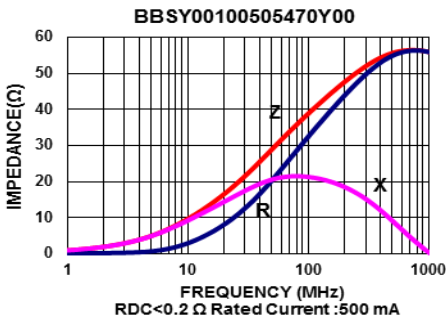
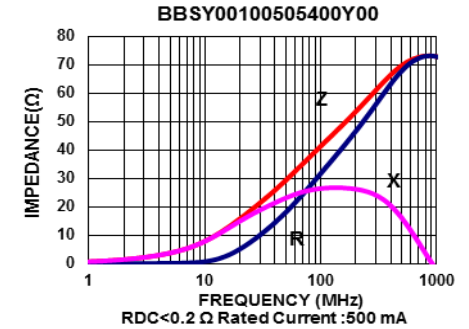
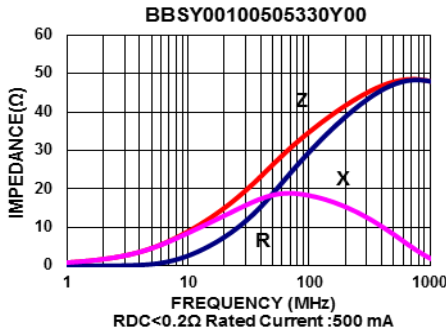
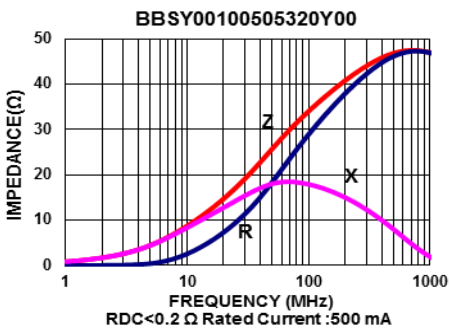
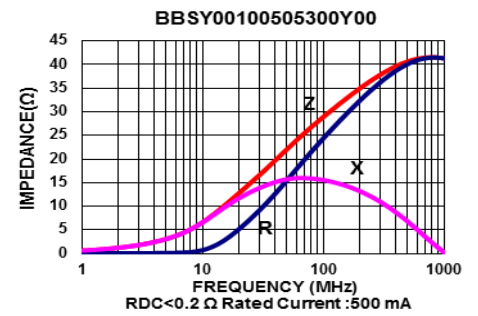
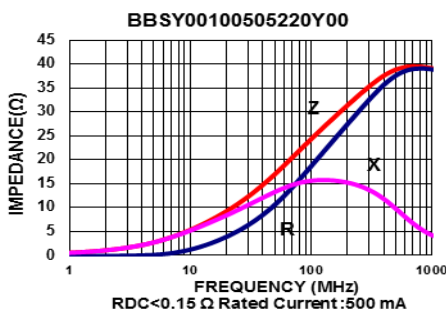
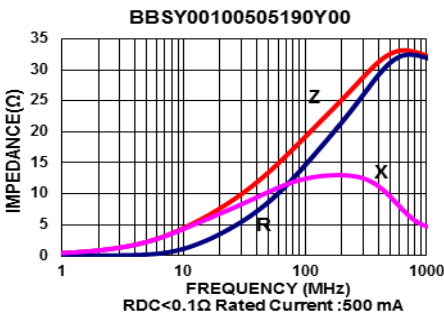
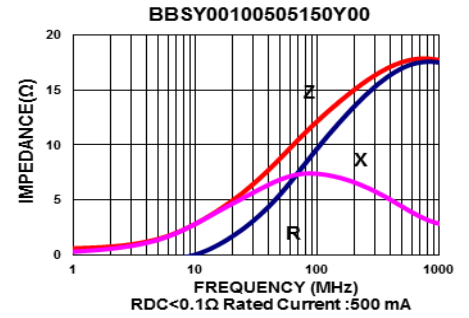
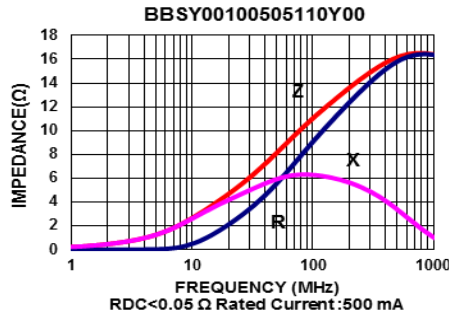
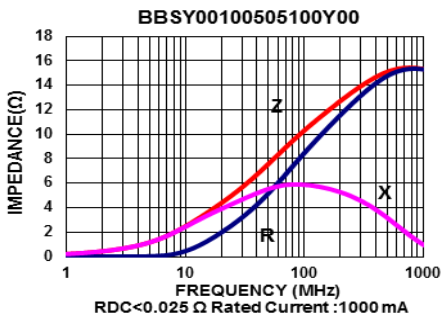
| Part Number | Impedance ($\Omega \pm 25\%$) | Test Frequency (MHz) | RDC (Ω) Max | Rated current (mA) Max |
|--------------------|------------------------------------|-------------------------|-------------------------|---------------------------|
| BBSY00100505100Y00 | 10 | 100 | 0.025 | 1000 |
| BBSY00100505110Y00 | 11 | 100 | 0.05 | 500 |
| BBSY00100505150Y00 | 15 | 100 | 0.10 | 500 |
| BBSY00100505190Y00 | 19 | 100 | 0.10 | 500 |
| BBSY00100505220Y00 | 22 | 100 | 0.15 | 500 |
| BBSY00100505300Y00 | 30 | 100 | 0.20 | 500 |
| BBSY00100505320Y00 | 32 | 100 | 0.20 | 500 |
| BBSY00100505330Y00 | 33 | 100 | 0.20 | 500 |
| BBSY00100505400Y00 | 40 | 100 | 0.20 | 500 |
| BBSY00100505470Y00 | 47 | 100 | 0.20 | 500 |
| BBSY00100505500Y00 | 50 | 100 | 0.20 | 500 |
| BBSY00100505600Y00 | 60 | 100 | 0.20 | 500 |
| BBSY00100505700Y00 | 70 | 100 | 0.15 | 600 |
| BBSY00100505750Y00 | 75 | 100 | 0.20 | 500 |
| BBSY00100505800Y00 | 80 | 100 | 0.20 | 500 |
| BBSY00100505900Y00 | 90 | 100 | 0.25 | 500 |
| BBSY00100505101Y00 | 100 | 100 | 0.25 | 500 |
| BBSY00100505121Y00 | 120 | 100 | 0.19 | 550 |
| BBSY00100505151Y00 | 150 | 100 | 0.40 | 400 |
| BBSY00100505181Y00 | 180 | 100 | 0.40 | 400 |
| BBSY00100505221Y00 | 220 | 100 | 0.29 | 450 |
| BBSY00100505241Y00 | 240 | 100 | 0.40 | 400 |
| BBSY00100505301Y00 | 300 | 100 | 0.50 | 300 |
| BBSY00100505331Y00 | 330 | 100 | 0.50 | 300 |
| BBSY00100505471Y00 | 470 | 100 | 0.50 | 300 |
| BBSY00100505481Y00 | 480 | 100 | 0.50 | 300 |
| BBSY00100505601Y00 | 600 | 100 | 0.52 | 300 |
| BBSY00100505102Y00 | 1000 | 100 | 0.65 | 300 |
| BBSY00100505182Y00 | 1800 | 100 | 1.40 | 100 |
| BBSY00100505222Y00 | 2200 | 100 | 1.40 | 100 |

Note: When ordering, please specify tolerance code. Tolerance : $Y \pm 25\%$

- 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
- Measure Equipment :
Z : HP4291A
RDC : HP4338B or CHEN HWA 502

SMD Multilayer Ferrite Chip Beads – SBY/SBK Series

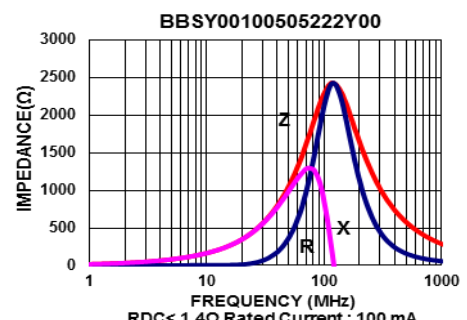
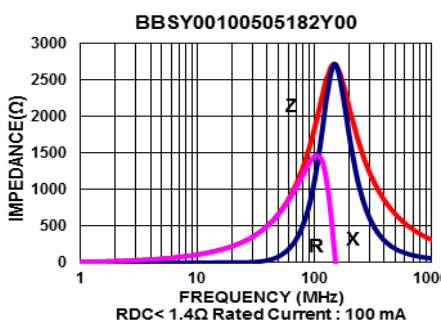
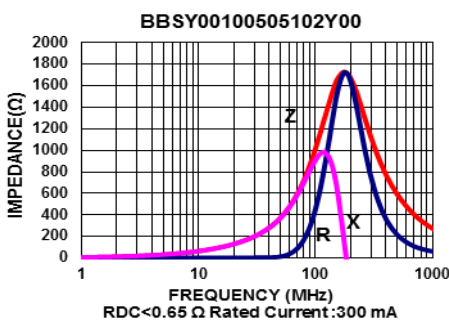
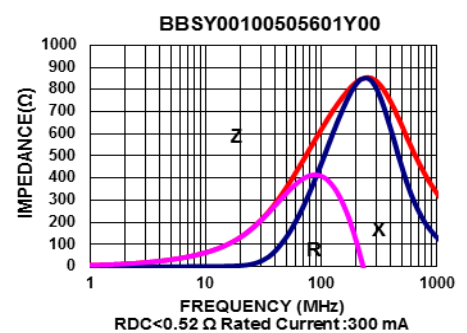
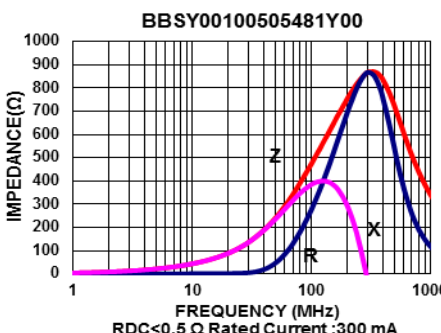
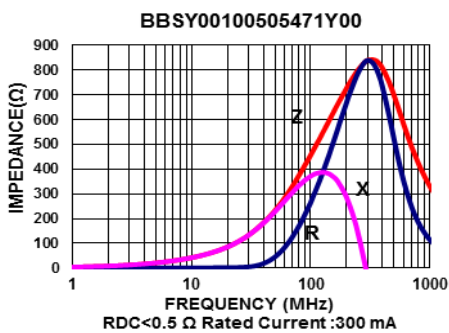
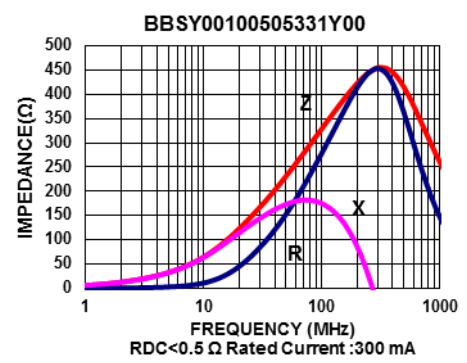
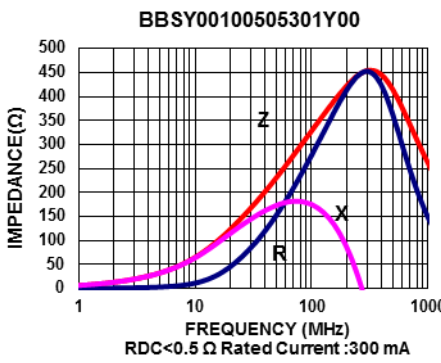
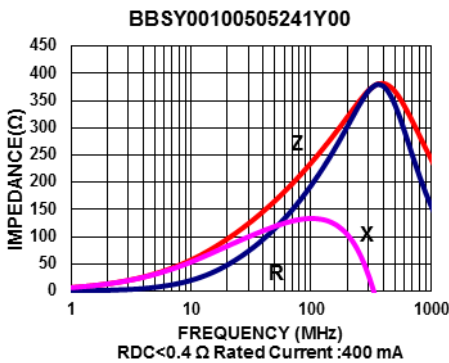
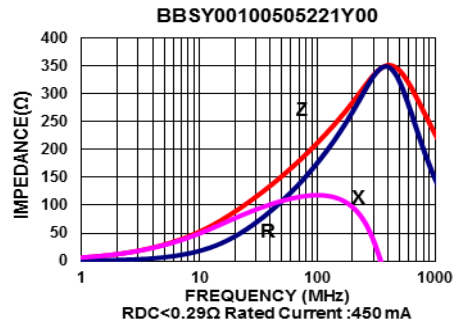
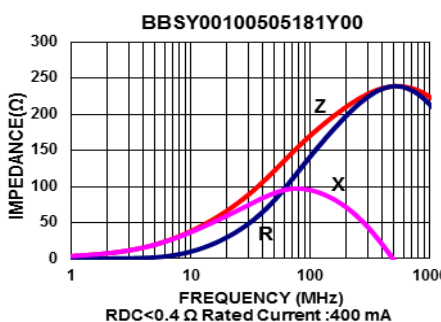
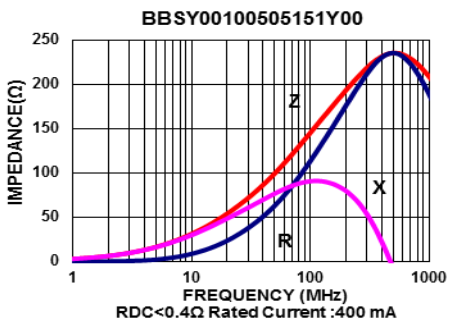
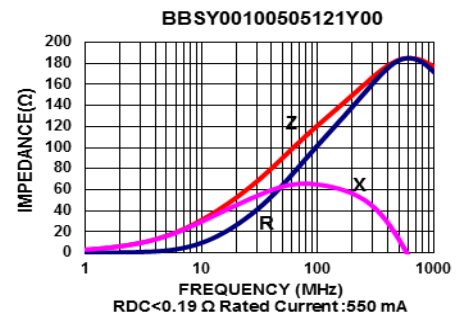
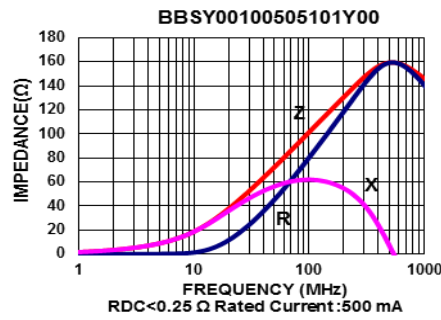
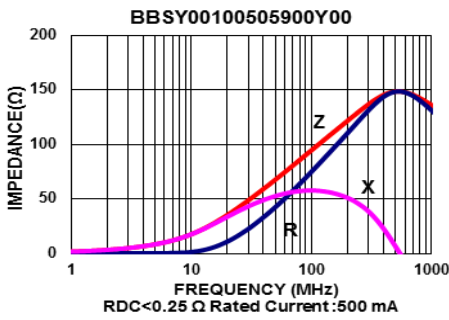
Test Instruments : Agilent E4991A Impedance / Material Analyzer



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 Ferrite Chip Beads – SBY/SBK Series

Test Instruments : Agilent E4991A Impedance / Material Analyzer



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SMD Multilayer Ferrite Chip Beads – BBSY/BBBK Series

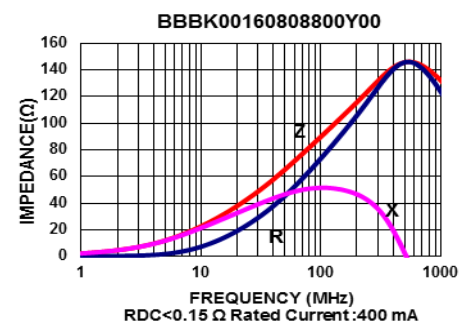
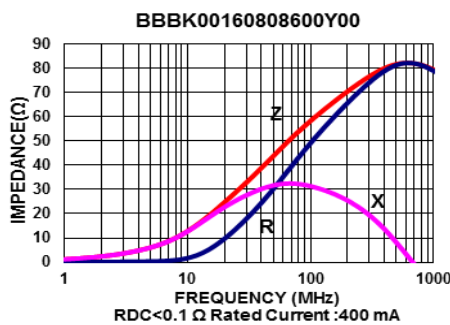
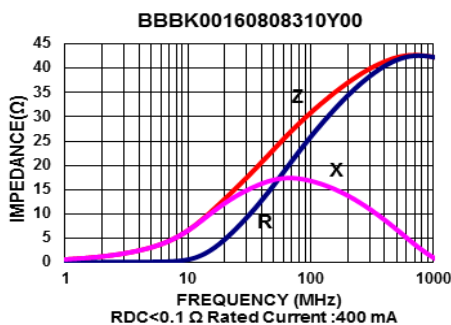
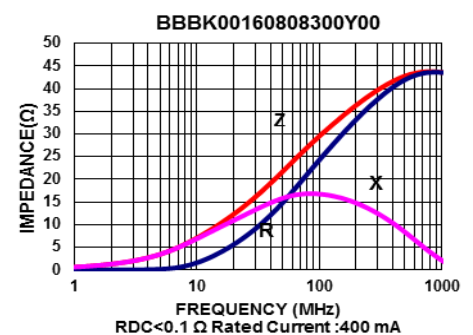
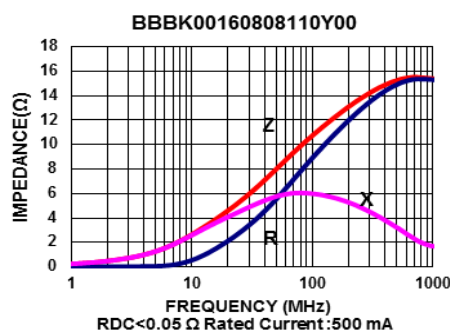
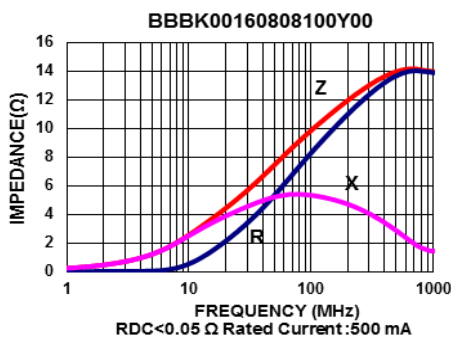
Electrical Characteristics

| Part Number | Impedance ($\Omega \pm 25\%$) | Test Frequency (MHz) | RDC (Ω) Max | Rated current (mA) Max |
|--------------------|------------------------------------|-------------------------|-------------------------|---------------------------|
| BBBK00160808100Y00 | 10 | 100 | 0.05 | 500 |
| BBBK00160808110Y00 | 11 | 100 | 0.05 | 500 |
| BBBK00160808300Y00 | 30 | 100 | 0.10 | 400 |
| BBBK00160808310Y00 | 31 | 100 | 0.10 | 400 |
| BBBK00160808600Y00 | 60 | 100 | 0.10 | 400 |
| BBBK00160808800Y00 | 80 | 100 | 0.15 | 400 |
| BBBK00160808121Y00 | 120 | 100 | 0.25 | 400 |
| BBBK00160808221Y00 | 220 | 100 | 0.30 | 300 |
| BBBK00160808301Y00 | 300 | 100 | 0.40 | 300 |
| BBBK00160808471Y00 | 470 | 100 | 0.50 | 300 |
| BBBK00160808601Y00 | 600 | 100 | 0.50 | 300 |
| BBBK00160808102Y00 | 1000 | 100 | 0.60 | 300 |
| BBBK00160808152Y00 | 1500 | 100 | 0.60 | 300 |
| BBBK00160808182Y00 | 1800 | 100 | 0.80 | 200 |
| BBBK00160808202Y00 | 2000 | 100 | 0.80 | 200 |
| BBBK00160808222Y00 | 2200 | 100 | 0.80 | 200 |
| BBBK00160808252Y00 | 2500 | 100 | 0.80 | 200 |
| BBBK00160808272Y00 | 2700 | 100 | 0.80 | 200 |

Note: When ordering, please specify tolerance code. Tolerance : $Y = \pm 25\%$

- 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
- Measure Equipment :
Z : HP4291A
RDC : HP4338B or CHEN HWA 502

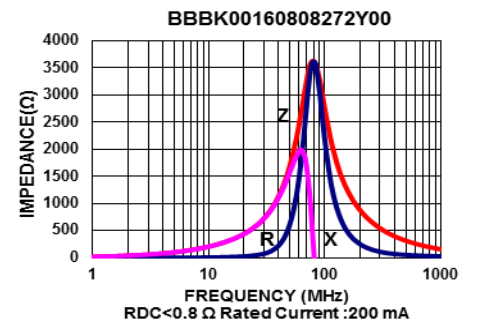
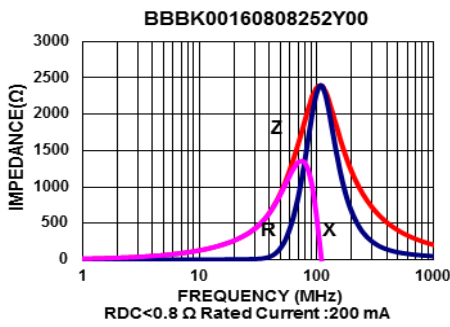
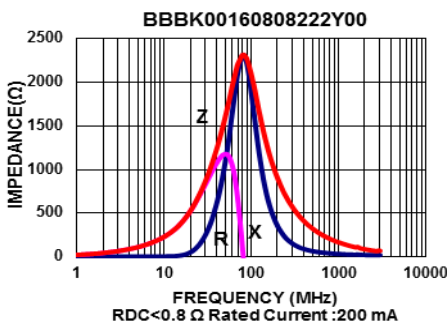
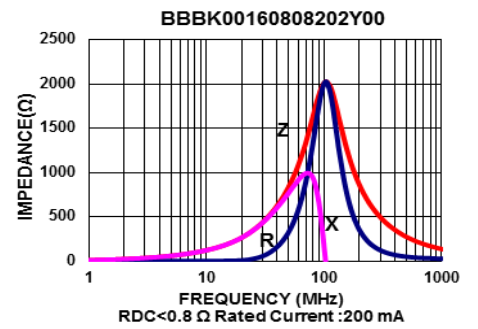
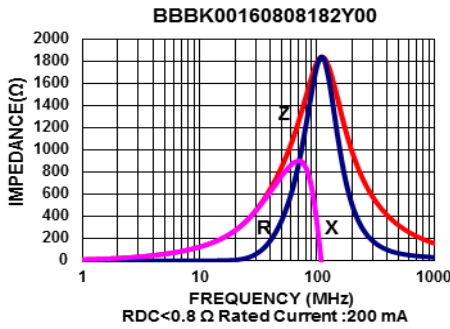
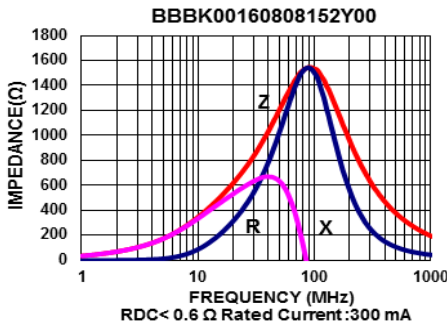
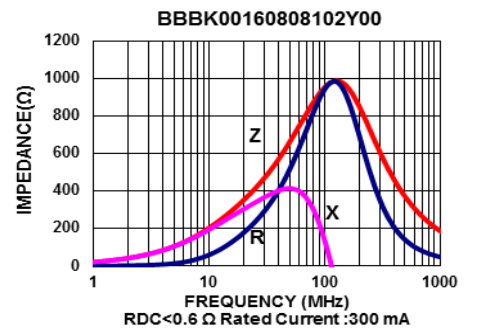
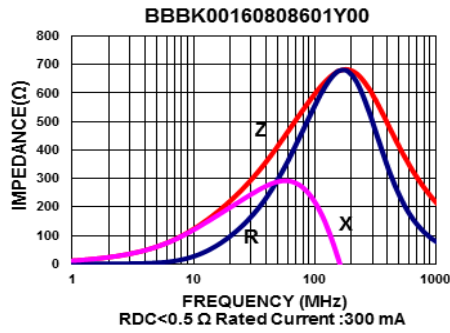
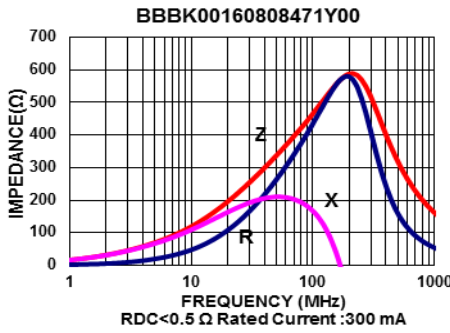
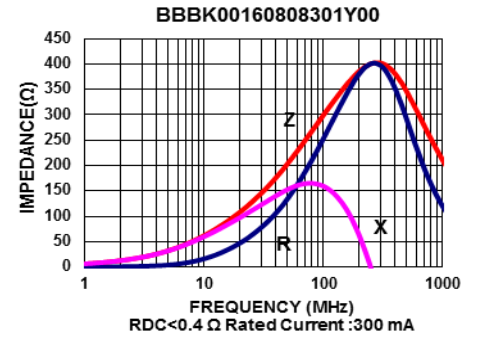
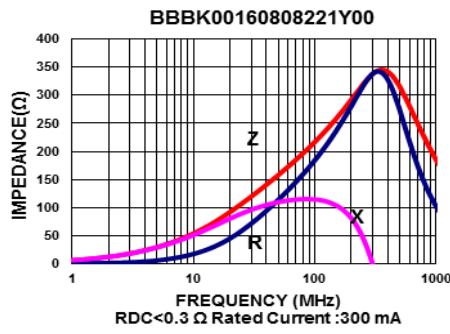
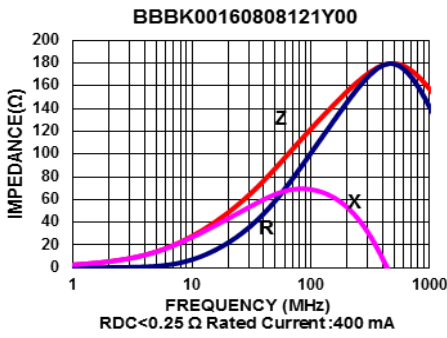
Test Instruments : Agilent E4991A Impedance / Material Analyzer



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SMD Multilayer Ferrite Chip Beads – SBY/SBK Series

Test Instruments : Agilent E4991A Impedance / Material Analyzer



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SMD Multilayer Ferrite Chip Beads – BBSY/BBBK Series

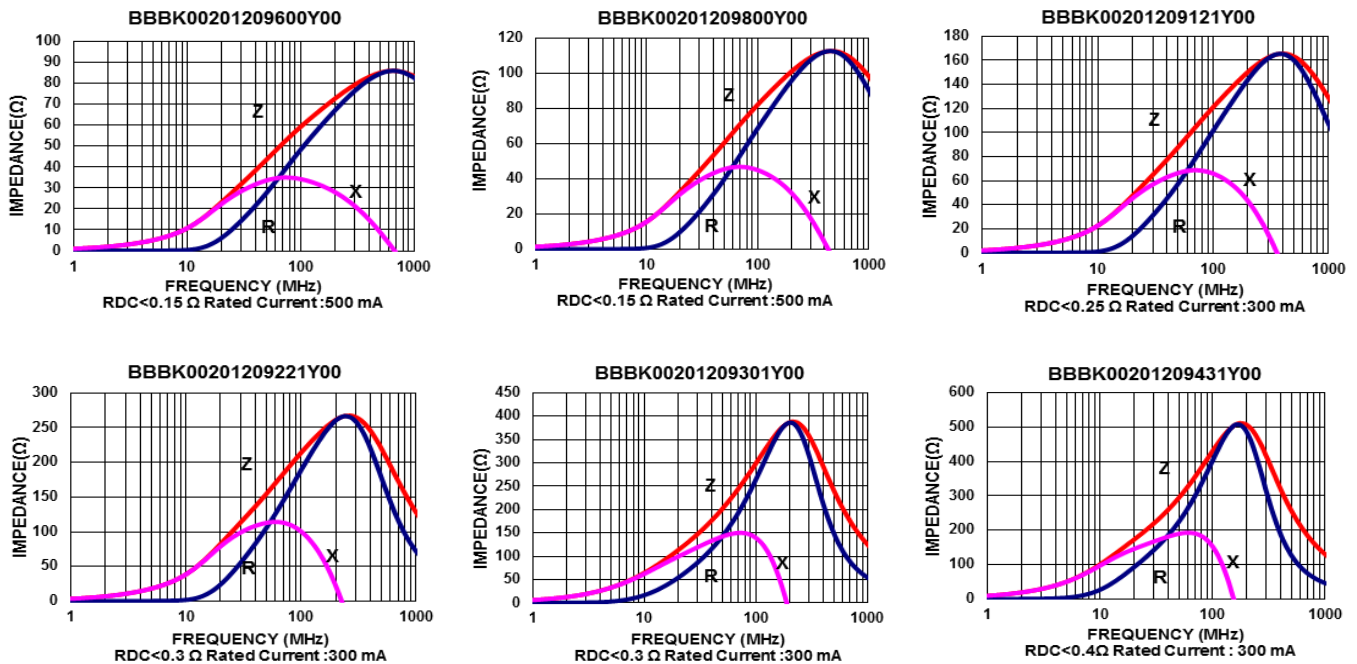
Electrical Characteristics

| Part Number | Impedance ($\Omega \pm 25\%$) | Test Frequency (MHz) | DC Resistance (Ω) Max | Rated current (mA) Max |
|--------------------|------------------------------------|-------------------------|-----------------------------------|---------------------------|
| BBBK00201209600Y00 | 60 | 100 | 0.15 | 500 |
| BBBK00201209800Y00 | 80 | 100 | 0.15 | 500 |
| BBBK00201209121Y00 | 120 | 100 | 0.25 | 300 |
| BBBK00201209221Y00 | 220 | 100 | 0.30 | 300 |
| BBBK00201209301Y00 | 300 | 100 | 0.30 | 300 |
| BBBK00201209431Y00 | 430 | 100 | 0.40 | 300 |
| BBBK00201209471Y00 | 470 | 100 | 0.40 | 300 |
| BBBK00201209601Y00 | 600 | 100 | 0.40 | 300 |
| BBBK00201209102Y00 | 1000 | 100 | 0.50 | 200 |
| BBBK00201209122Y00 | 1200 | 100 | 0.60 | 200 |
| BBBK00201209152Y00 | 1500 | 100 | 0.60 | 200 |
| BBBK00201209202Y00 | 2000 | 100 | 0.70 | 200 |
| BBBK00201209222Y00 | 2200 | 100 | 0.70 | 200 |
| BBBK00201209252Y00 | 2500 | 100 | 0.70 | 200 |
| BBBK00201209272Y00 | 2700 | 100 | 0.70 | 200 |

Note: When ordering, please specify tolerance code. Tolerance : Y= $\pm 25\%$

- 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
- Measure Equipment :
Z : HP4291A
RDC : HP4338B or CHEN HWA 502

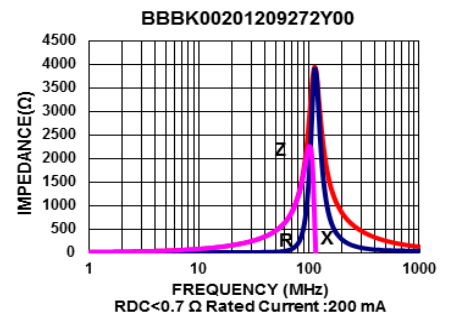
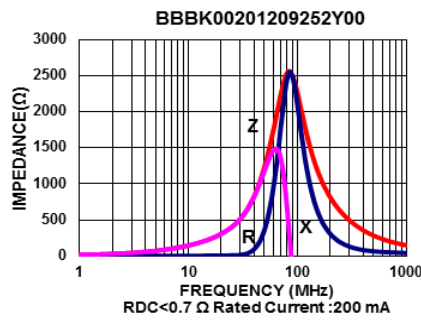
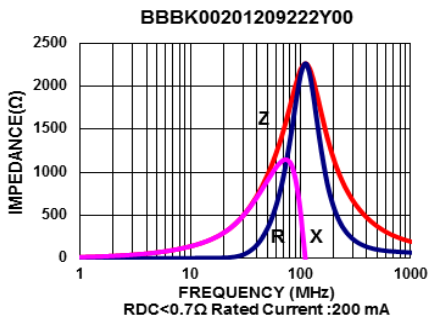
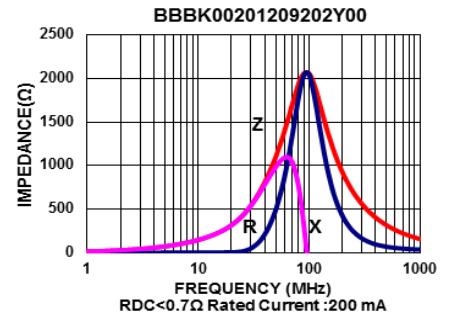
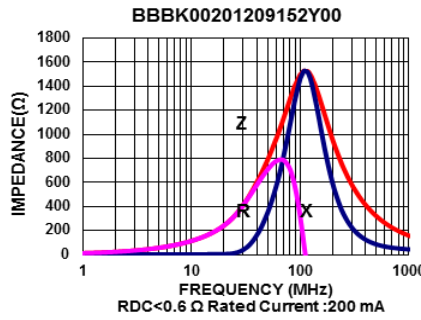
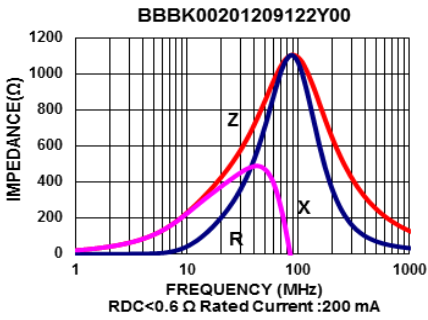
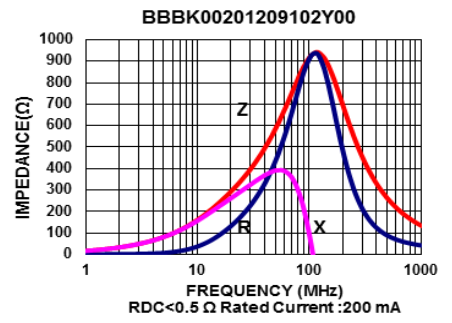
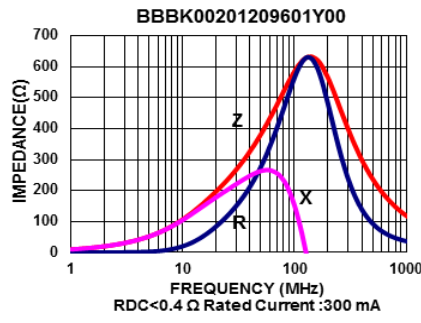
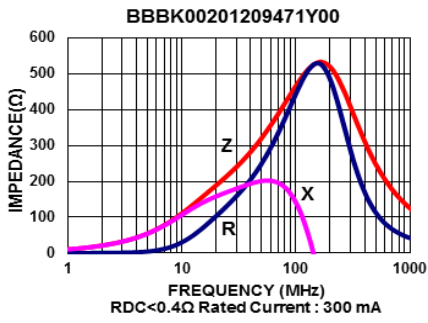
Test Instruments : Agilent E4991A Impedance / Material Analyzer



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 Chilisun approval. Please contact our sales department before ordering.

SMD Multilayer Ferrite Chip Beads – BBSY/BBBK Series

Test Instruments : Agilent E4991A Impedance / Material 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 Ferrite Chip Beads – BBSY/BBBK Series

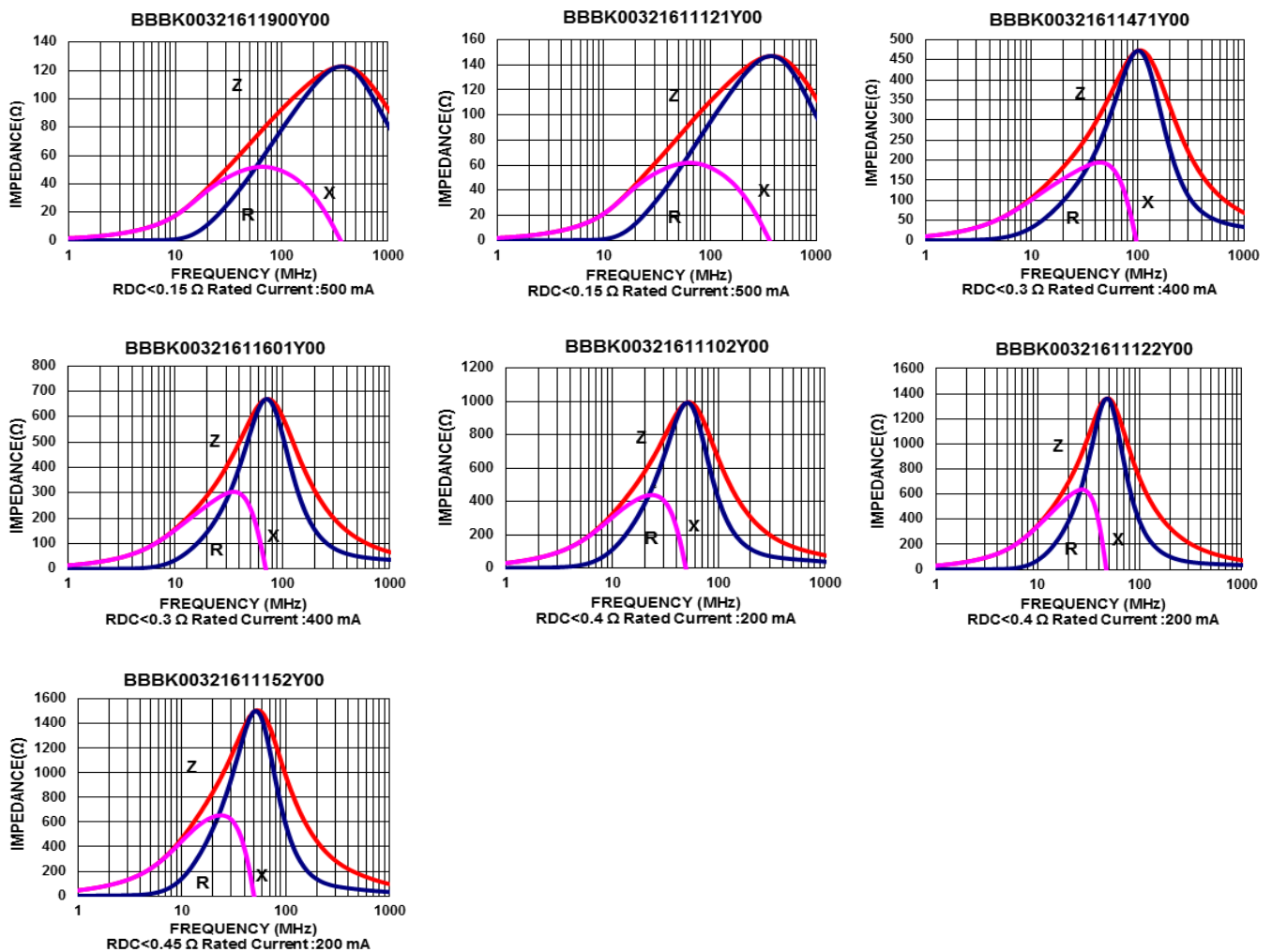
Electrical Characteristics

| Part Number | Impedance ($\Omega \pm 25\%$) | Test Frequency (MHz) | RDC (Ω) Max | Rated current (mA) Max |
|--------------------|------------------------------------|-------------------------|-------------------------|---------------------------|
| BBBK00321611900Y00 | 90 | 100 | 0.15 | 500 |
| BBBK00321611121Y00 | 120 | 100 | 0.15 | 500 |
| BBBK00321611471Y00 | 470 | 100 | 0.20 | 400 |
| BBBK00321611601Y00 | 600 | 100 | 0.30 | 400 |
| BBBK00321611102Y00 | 1000 | 50 | 0.40 | 200 |
| BBBK00321611122Y00 | 1200 | 50 | 0.40 | 200 |
| BBBK00321611152Y00 | 1500 | 50 | 0.45 | 200 |

Note: When ordering, please specify tolerance code. Tolerance : $Y = \pm 25\%$

- 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
- Measure Equipment :
Z : HP4291A
RDC : HP4338B or CHEN HWA 502

Test Instruments : Agilent E4991A Impedance / Material Analyzer

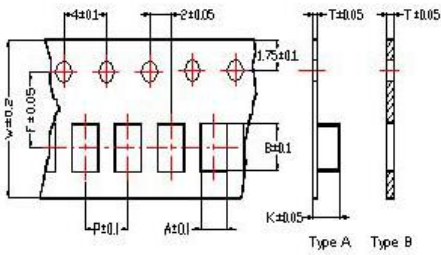


Please be sure to request approval specifications that provide further details of the products. Kindly note that the content of these specifications are subject to change or may be discontinued without prior notice. This product may not be designed/used in medical or high risk applications without Chilisun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

SMD Multilayer Ferrite Chip Beads

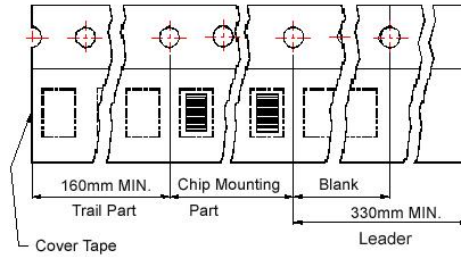
Packaging Specifications

Tape Dimensions

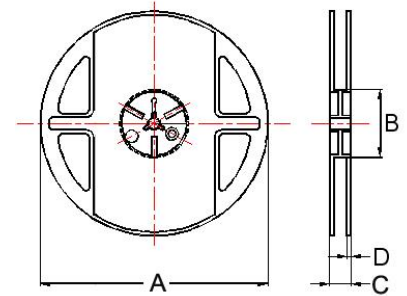


Tape Material

Carrier Tape: Polycarbonate (Tape A)
Carrier Tape: Paper (Tape B)
Cover Tape: Polystyrene



Reel Dimensions



- ① : BBSY/BBSJ/BBNQ/BBPY ③ : BBUP
- ② : BBSY/BBSJ/BBNQ/BBPY/BBUP/BBFY/BBFJ
- ④ : BBBK/BBSJ/BBGK/BBPY/BBNQ/BBUP/BBHV
- ⑤ : BBBK/BBGK/BBPY/BBUP
- ⑥ : BBSY/BBBK/BBPY/BBUP
- ⑦ : BBPY/BBUP

Dimensions in mm

| TYPE | Tape Dimensions | | | | | | | | Reel Dimensions | | | | Quantity PCS / REEL |
|---------|-----------------|------|------|-----|-----|-----|------|------|-----------------|----|----|---|------------------------|
| | A | B | T | W | P | F | K | Tape | A | B | C | D | |
| ①060303 | 0.37 | 0.67 | 0.42 | 8.0 | 2.0 | 3.5 | - | B | 178 | 60 | 10 | 2 | 15000 |
| ②100505 | 0.62 | 1.12 | 0.60 | 8.0 | 2.0 | 3.5 | - | B | 178 | 60 | 12 | 2 | 10000 |
| ③160805 | 1.05 | 1.85 | 0.60 | 8.0 | 2.0 | 3.5 | - | B | 178 | 60 | 12 | 2 | 10000 |
| ④160808 | 1.05 | 1.85 | 0.95 | 8.0 | 4.0 | 3.5 | - | B | 178 | 60 | 12 | 2 | 4000 |
| ⑤201209 | 1.50 | 2.30 | 0.97 | 8.0 | 4.0 | 3.5 | - | B | 178 | 60 | 12 | 2 | 4000 |
| ⑥321611 | 1.88 | 3.50 | 0.22 | 8.0 | 4.0 | 3.5 | 1.27 | A | 178 | 60 | 12 | 2 | 3000 |
| ⑦453215 | 3.66 | 4.95 | 0.24 | 12 | 8.0 | 5.5 | 1.85 | A | 178 | 60 | 14 | 2 | 1000 |

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[SBY100505T-750Y-N](#) [BBPY00100505102Y00](#)