

Multilayer Ferrite Chip Beads



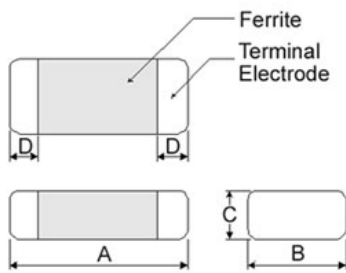
Chilisin offers a wide range of multi-layered ferrite chip beads with various sizes, frequency characteristics, and impedance values for EMI solutions. These ferrite formulas are used to compose seven types of EMI suppression chip beads: SB, GB, PB, UPB, NB, HF, and VPB series.

Product Identification

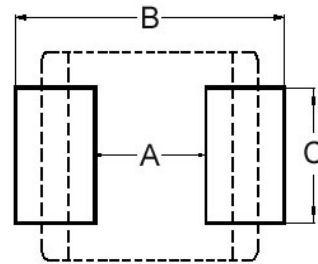


- Product symbol: SB, GB, PB, UPB, NB, HF, VPB
- Packaging: T : Tape and Reel ; B : Bulk
- Tolerance: Y = ± 25%; M = ± 20%; T:±30%
- Note: RoHS Compliant

Shape and Dimensions



Recommended Pattern



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 |

① : SBY / SBJ / NB / PB ② : SBY / SBJ / NB / PB / UPB / HF
 ③ : UPB ④ : SBK / SBJ / GB / PB / NB / UPB / VPB
 ⑤ : SBK / GB / PB / UPB ⑥ : SBY / SBK / PB / UPB

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 ~ 1.2 |
| ⑥321611 | 2.0 | 4.2 ~ 5.2 | 1.2 |

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

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 |

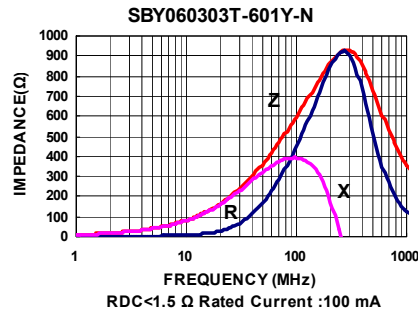
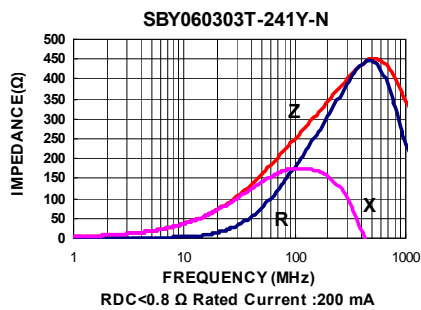
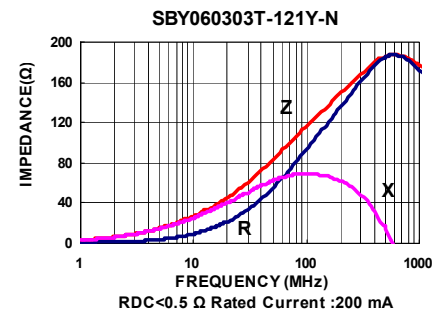
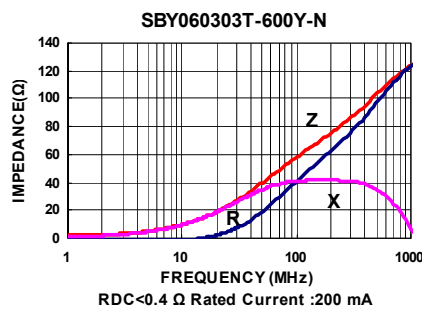
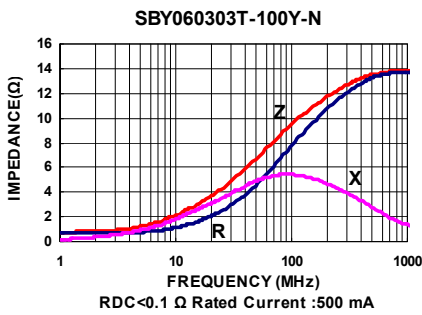
Electrical Characteristics

| Part Number | Impedance ($\Omega \pm 25\%$) | Test Frequency (MHz) | RDC (Ω) Max | Rated current (mA) Max |
|-------------------|------------------------------------|-------------------------|-------------------------|---------------------------|
| SBY060303T-100Y-N | 10 | 100 | 0.1 | 500 |
| SBY060303T-600Y-N | 60 | 100 | 0.4 | 200 |
| SBY060303T-121Y-N | 120 | 100 | 0.5 | 200 |
| SBY060303T-241Y-N | 240 | 100 | 0.8 | 200 |
| SBY060303T-601Y-N | 600 | 100 | 1.5 | 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

Test Instruments : Agilent E4991A Impedance / Material Analyzer



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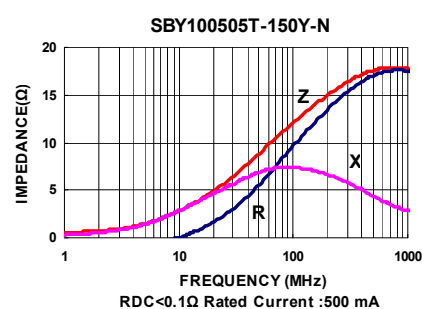
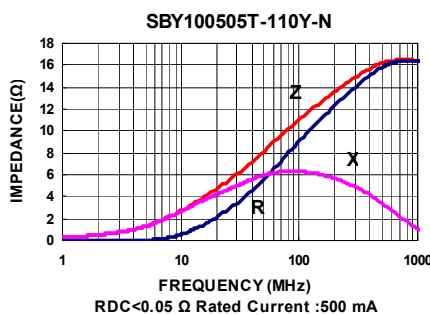
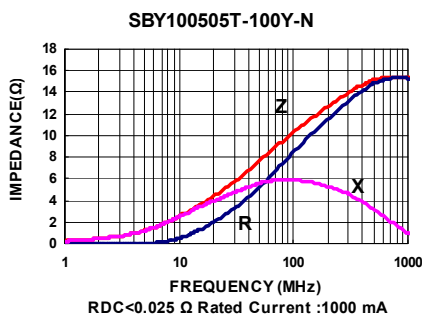
Electrical Characteristics

| Part Number | Impedance ($\Omega \pm 25\%$) | Test Frequency (MHz) | RDC (Ω) Max | Rated current (mA) Max |
|-------------------|------------------------------------|-------------------------|-------------------------|---------------------------|
| SBY100505T-100Y-N | 10 | 100 | 0.025 | 1000 |
| SBY100505T-110Y-N | 11 | 100 | 0.05 | 500 |
| SBY100505T-150Y-N | 15 | 100 | 0.10 | 500 |
| SBY100505T-190Y-N | 19 | 100 | 0.10 | 500 |
| SBY100505T-220Y-N | 22 | 100 | 0.15 | 500 |
| SBY100505T-300Y-N | 30 | 100 | 0.20 | 500 |
| SBY100505T-320Y-N | 32 | 100 | 0.20 | 500 |
| SBY100505T-330Y-N | 33 | 100 | 0.20 | 500 |
| SBY100505T-400Y-N | 40 | 100 | 0.20 | 500 |
| SBY100505T-470Y-N | 47 | 100 | 0.20 | 500 |
| SBY100505T-500Y-N | 50 | 100 | 0.20 | 500 |
| SBY100505T-600Y-N | 60 | 100 | 0.20 | 500 |
| SBY100505T-700Y-N | 70 | 100 | 0.15 | 600 |
| SBY100505T-750Y-N | 75 | 100 | 0.20 | 500 |
| SBY100505T-800Y-N | 80 | 100 | 0.20 | 500 |
| SBY100505T-900Y-N | 90 | 100 | 0.25 | 500 |
| SBY100505T-101Y-N | 100 | 100 | 0.25 | 500 |
| SBY100505T-121Y-N | 120 | 100 | 0.19 | 550 |
| SBY100505T-151Y-N | 150 | 100 | 0.40 | 400 |
| SBY100505T-181Y-N | 180 | 100 | 0.40 | 400 |
| SBY100505T-221Y-N | 220 | 100 | 0.29 | 450 |
| SBY100505T-241Y-N | 240 | 100 | 0.40 | 400 |
| SBY100505T-301Y-N | 300 | 100 | 0.50 | 300 |
| SBY100505T-331Y-N | 330 | 100 | 0.50 | 300 |
| SBY100505T-471Y-N | 470 | 100 | 0.50 | 300 |
| SBY100505T-481Y-N | 480 | 100 | 0.50 | 300 |
| SBY100505T-601Y-N | 600 | 100 | 0.52 | 300 |
| SBY100505T-102Y-N | 1000 | 100 | 0.65 | 300 |
| SBY100505T-182Y-N | 1800 | 100 | 1.40 | 100 |
| SBY100505T-222Y-N | 2200 | 100 | 1.40 | 100 |

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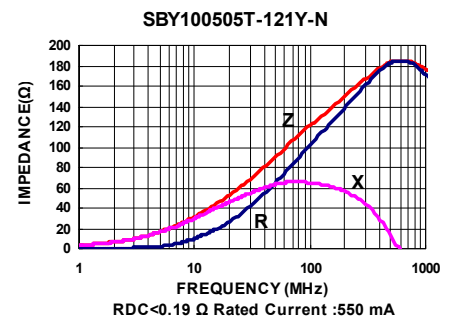
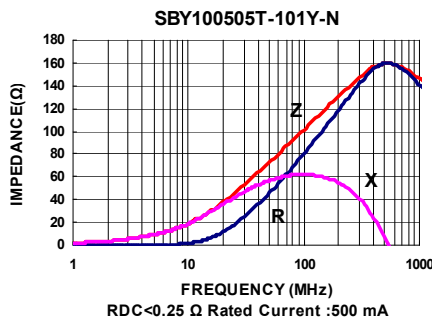
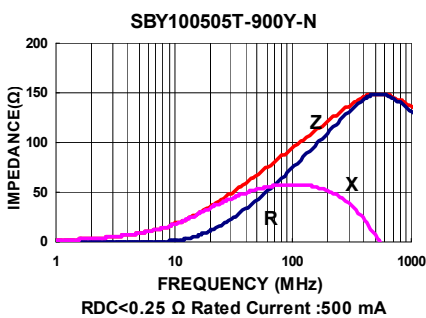
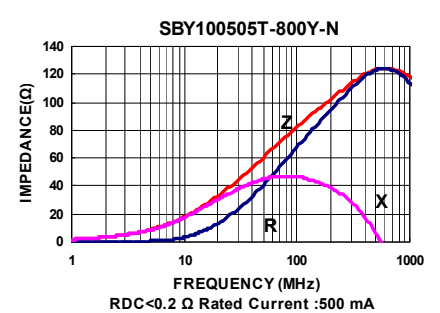
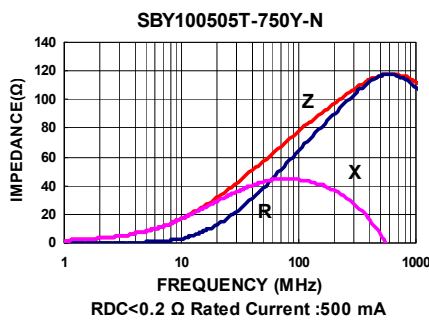
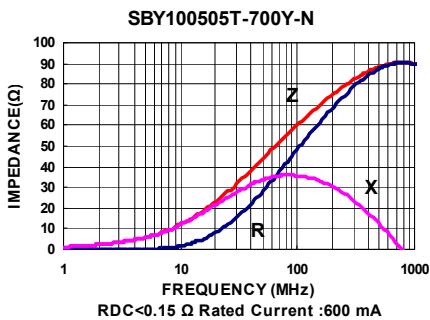
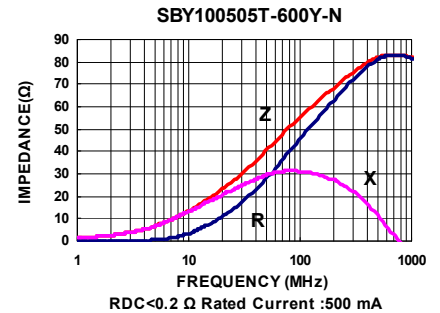
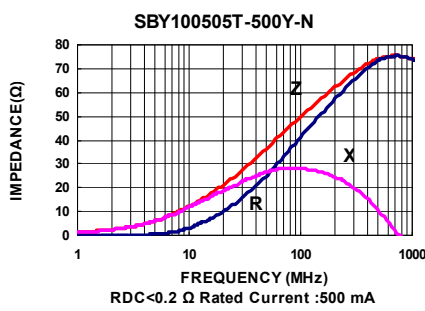
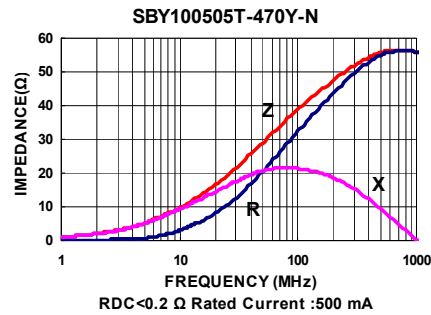
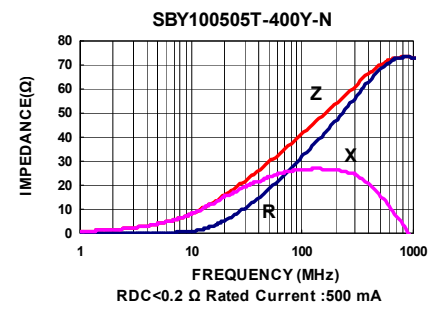
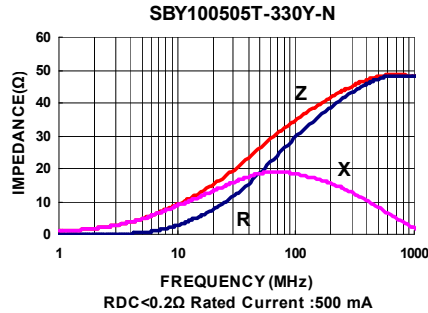
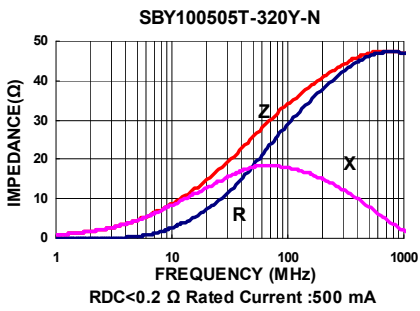
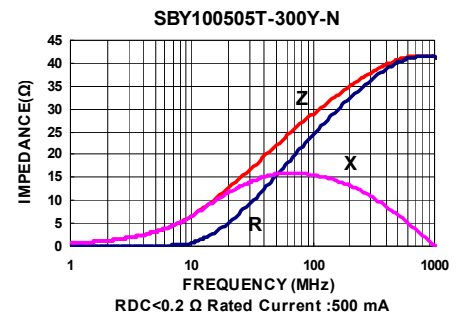
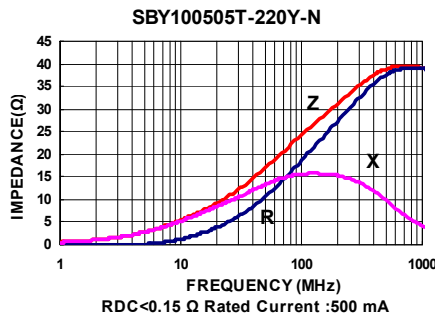
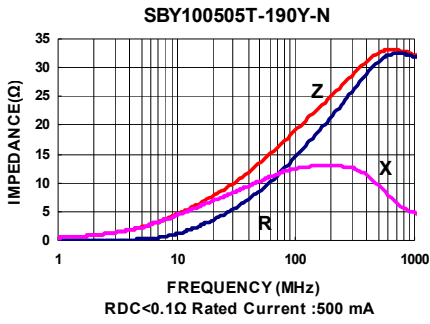
- Operating temperature range - 55°C ~ 125°C(Including self - temperature rise)
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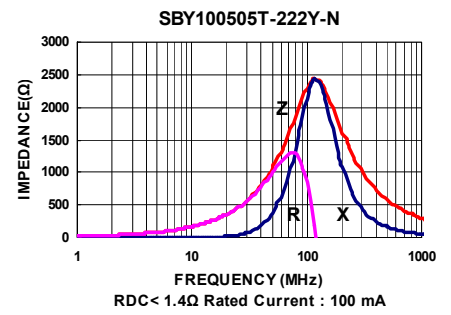
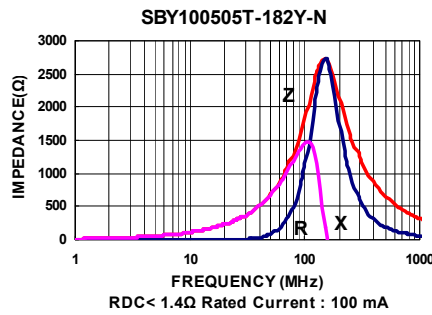
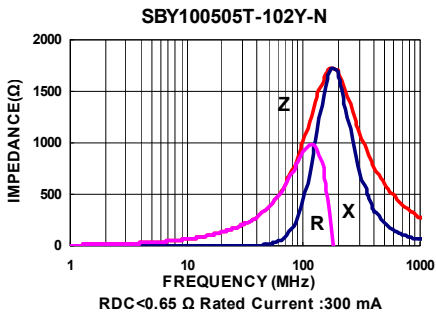
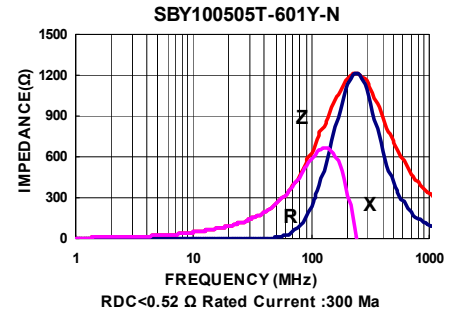
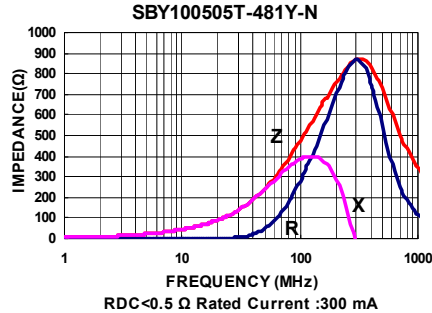
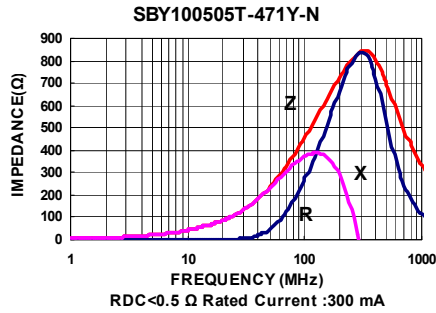
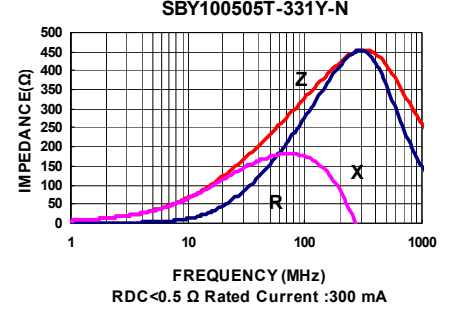
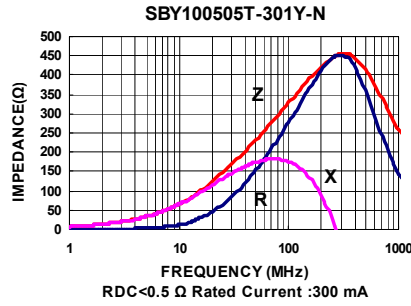
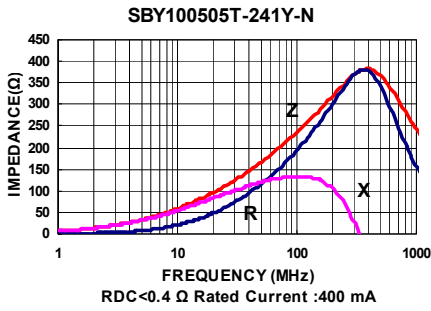
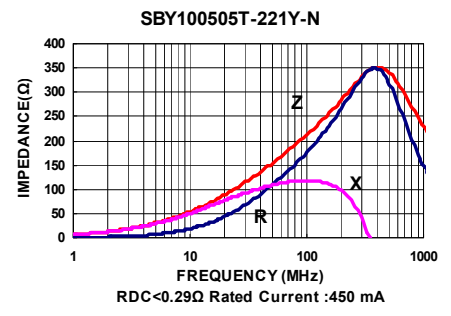
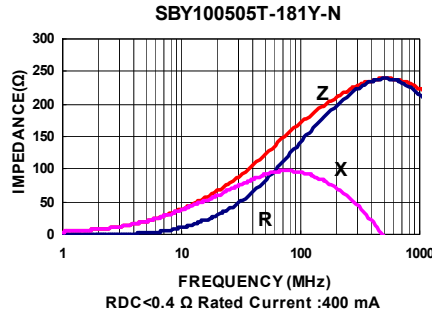
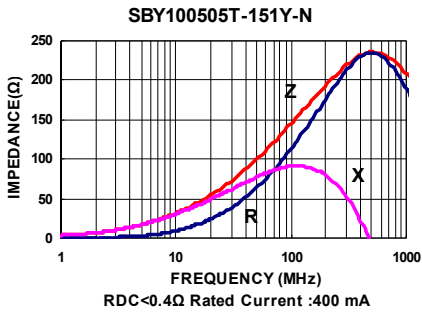
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Test Instruments : Agilent E4991A Impedance / Material Analyzer



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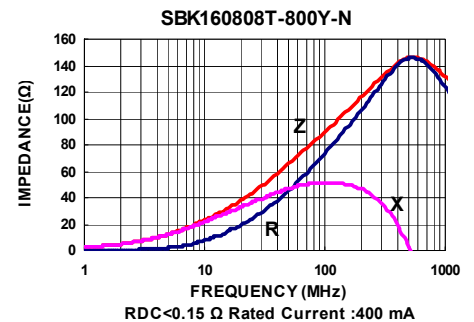
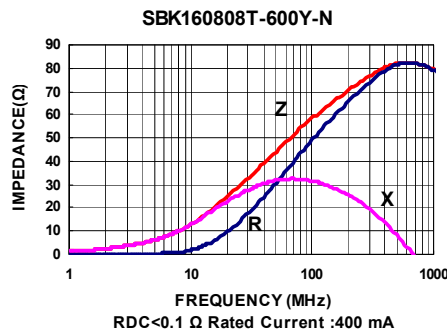
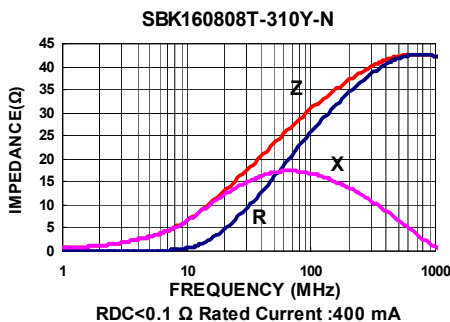
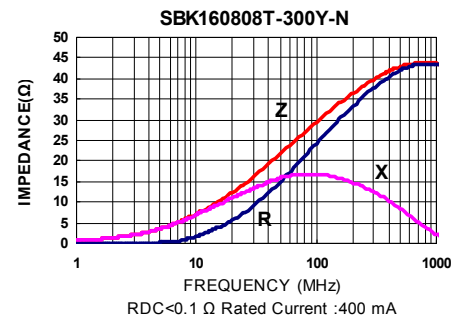
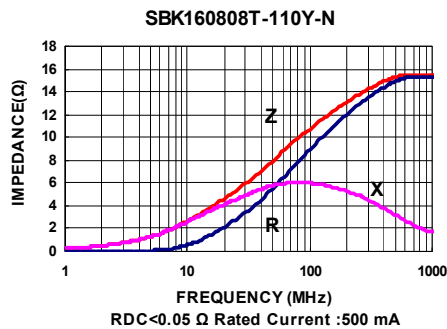
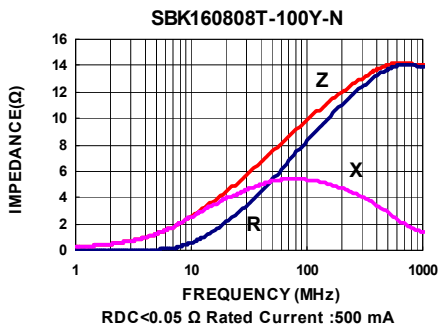
Electrical Characteristics

| Part Number | Impedance ($\Omega \pm 25\%$) | Test Frequency (MHz) | RDC (Ω) Max | Rated current (mA) Max |
|-------------------|------------------------------------|-------------------------|-------------------------|---------------------------|
| SBK160808T-100Y-N | 10 | 100 | 0.05 | 500 |
| SBK160808T-110Y-N | 11 | 100 | 0.05 | 500 |
| SBK160808T-300Y-N | 30 | 100 | 0.10 | 400 |
| SBK160808T-310Y-N | 31 | 100 | 0.10 | 400 |
| SBK160808T-600Y-N | 60 | 100 | 0.10 | 400 |
| SBK160808T-800Y-N | 80 | 100 | 0.15 | 400 |
| SBK160808T-121Y-N | 120 | 100 | 0.25 | 400 |
| SBK160808T-221Y-N | 220 | 100 | 0.30 | 300 |
| SBK160808T-301Y-N | 300 | 100 | 0.40 | 300 |
| SBK160808T-471Y-N | 470 | 100 | 0.50 | 300 |
| SBK160808T-601Y-N | 600 | 100 | 0.50 | 300 |
| SBK160808T-102Y-N | 1000 | 100 | 0.60 | 300 |
| SBK160808T-152Y-N | 1500 | 100 | 0.60 | 300 |
| SBK160808T-182Y-N | 1800 | 100 | 0.80 | 200 |
| SBK160808T-202Y-N | 2000 | 100 | 0.80 | 200 |
| SBK160808T-222Y-N | 2200 | 100 | 0.80 | 200 |
| SBK160808T-252Y-N | 2500 | 100 | 0.80 | 200 |
| SBK160808T-272Y-N | 2700 | 100 | 0.80 | 200 |

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

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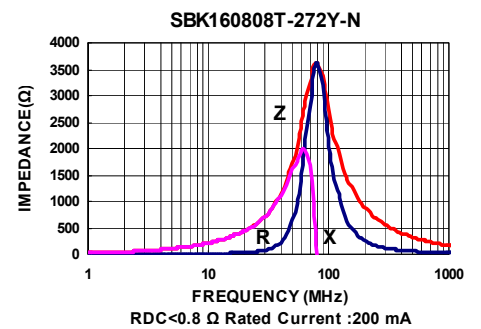
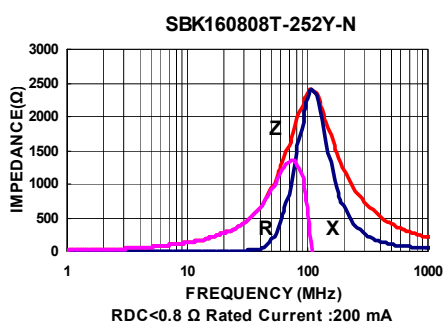
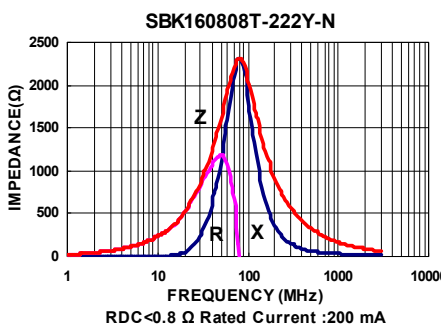
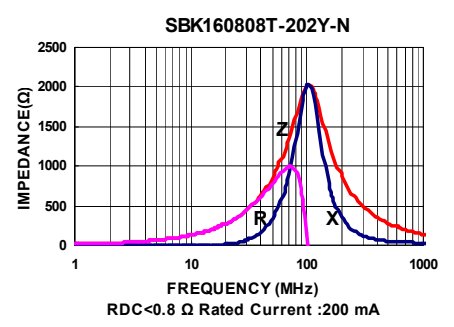
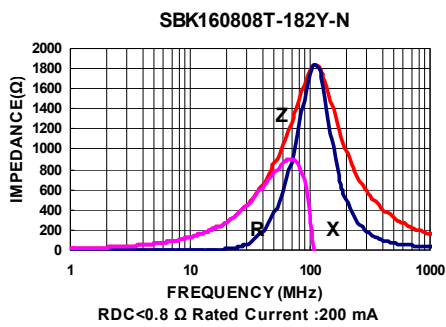
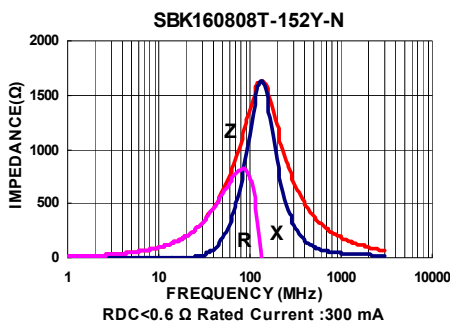
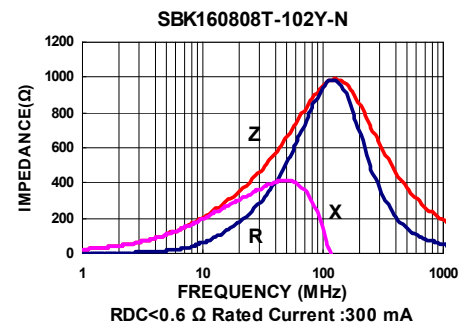
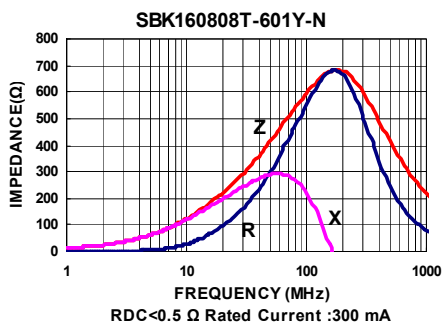
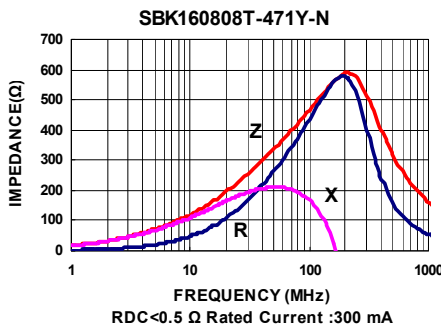
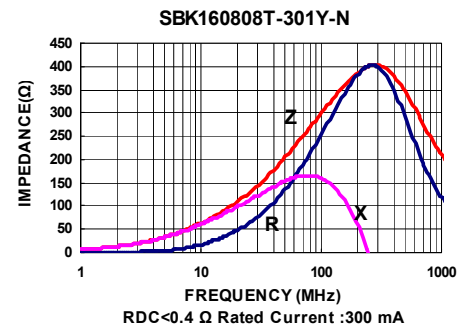
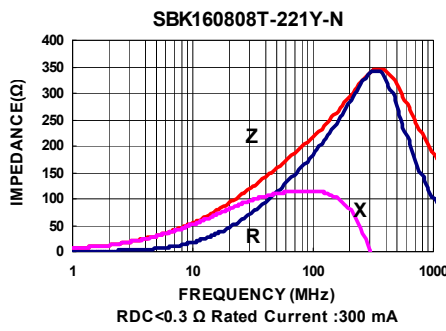
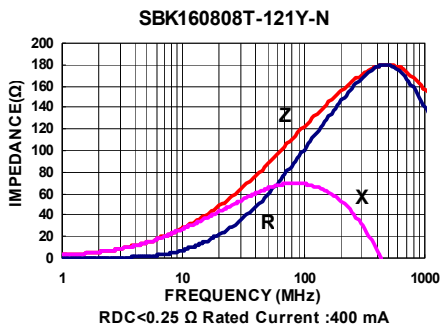
Test Instruments : Agilent E4991A Impedance / Material Analyzer



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SMD Multilayer Ferrite Chip Beads – SBY/SBK Series

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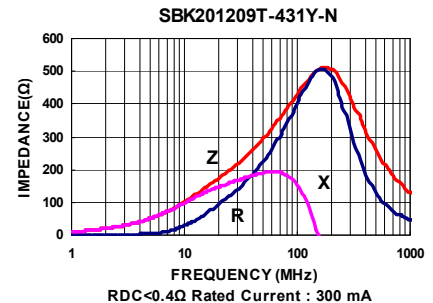
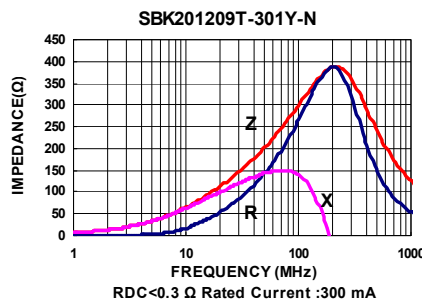
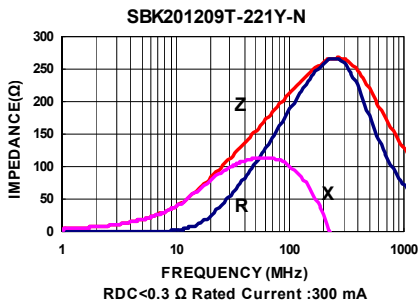
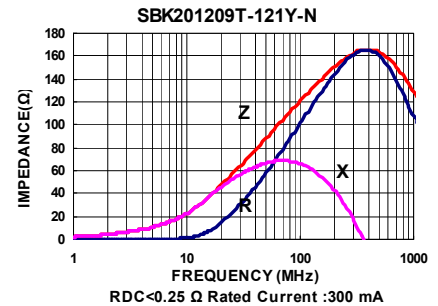
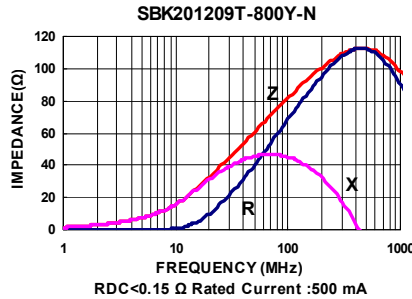
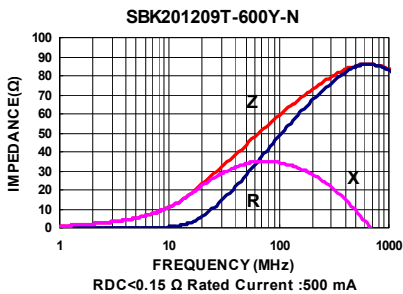
Electrical Characteristics

| Part Number | Impedance ($\Omega \pm 25\%$) | Test Frequency (MHz) | DC Resistance (Ω) Max | Rated current (mA) Max |
|-------------------|------------------------------------|-------------------------|-----------------------------------|---------------------------|
| SBK201209T-600Y-N | 60 | 100 | 0.15 | 500 |
| SBK201209T-800Y-N | 80 | 100 | 0.15 | 500 |
| SBK201209T-121Y-N | 120 | 100 | 0.25 | 300 |
| SBK201209T-221Y-N | 220 | 100 | 0.30 | 300 |
| SBK201209T-301Y-N | 300 | 100 | 0.30 | 300 |
| SBK201209T-431Y-N | 430 | 100 | 0.40 | 300 |
| SBK201209T-471Y-N | 470 | 100 | 0.40 | 300 |
| SBK201209T-601Y-N | 600 | 100 | 0.40 | 300 |
| SBK201209T-102Y-N | 1000 | 100 | 0.50 | 200 |
| SBK201209T-122Y-N | 1200 | 100 | 0.60 | 200 |
| SBK201209T-152Y-N | 1500 | 100 | 0.60 | 200 |
| SBK201209T-202Y-N | 2000 | 100 | 0.70 | 200 |
| SBK201209T-222Y-N | 2200 | 100 | 0.70 | 200 |
| SBK201209T-252Y-N | 2500 | 100 | 0.70 | 200 |
| SBK201209T-272Y-N | 2700 | 100 | 0.70 | 200 |

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

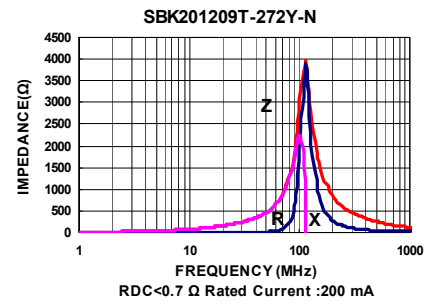
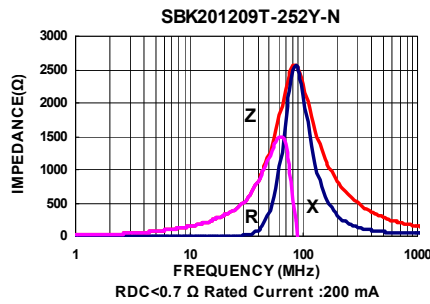
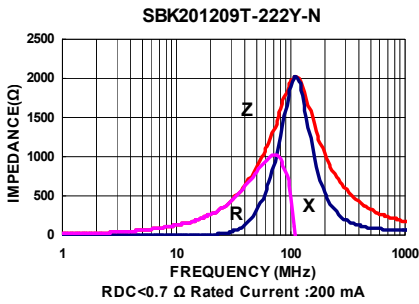
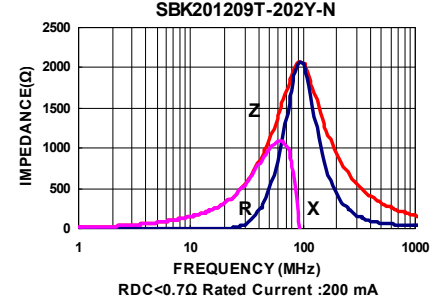
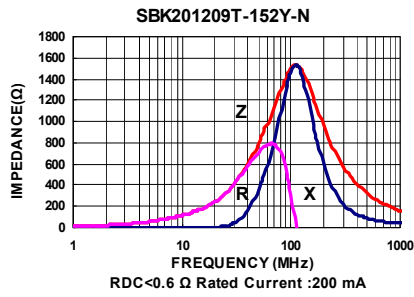
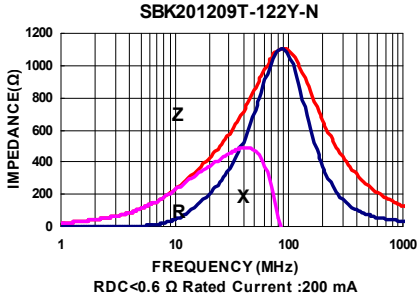
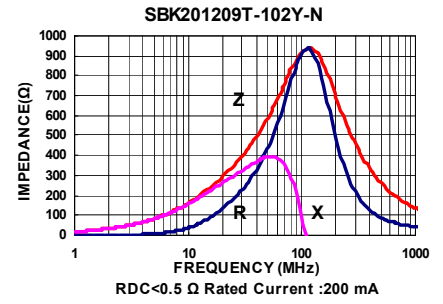
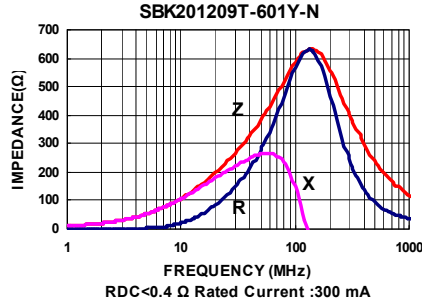
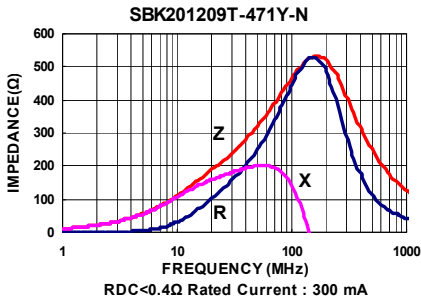
- Operating temperature range - 55°C ~ 125°C(Including self - temperature rise)
- Rate Current : Applied the current to coils, the temperature rise shall not be more than 30°C
- Measure Equipment :
Z : HP4291A
RDC : HP4338B or CHEN HWA 502

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 advance notice. Please contact our sales department before ordering.

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 advance notice. Please contact our sales department before ordering.

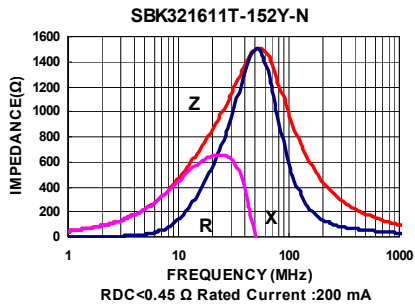
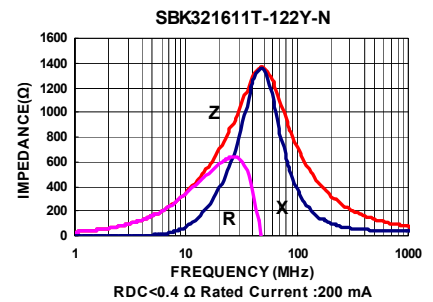
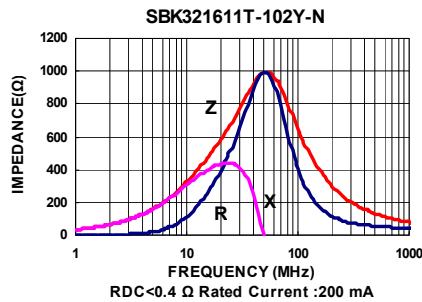
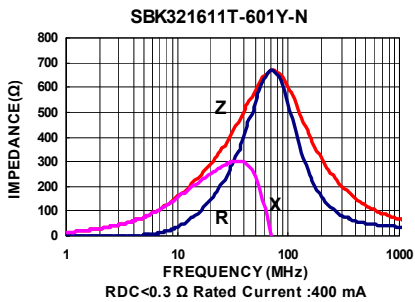
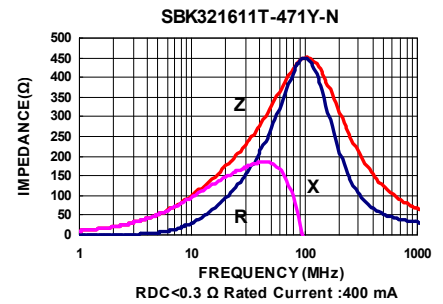
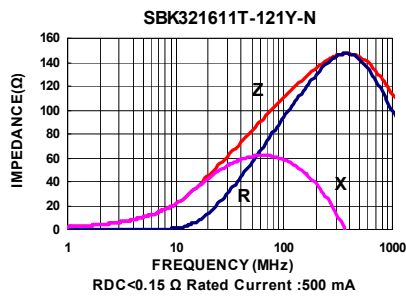
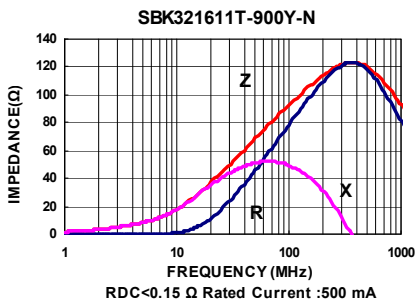
Electrical Characteristics

| Part Number | Impedance ($\Omega \pm 25\%$) | Test Frequency (MHz) | RDC (Ω) Max | Rated current (mA) Max |
|-------------------|------------------------------------|-------------------------|-------------------------|---------------------------|
| SBK321611T-900Y-N | 90 | 100 | 0.15 | 500 |
| SBK321611T-121Y-N | 120 | 100 | 0.15 | 500 |
| SBK321611T-471Y-N | 470 | 100 | 0.20 | 400 |
| SBK321611T-601Y-N | 600 | 100 | 0.30 | 400 |
| SBK321611T-102Y-N | 1000 | 50 | 0.40 | 200 |
| SBK321611T-122Y-N | 1200 | 50 | 0.40 | 200 |
| SBK321611T-152Y-N | 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

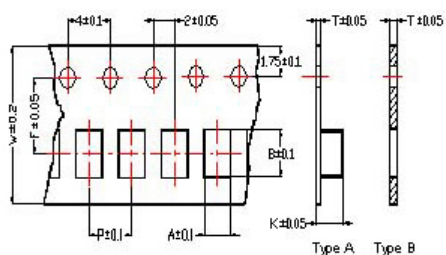
Test Instruments : Agilent E4991A Impedance / Material Analyzer



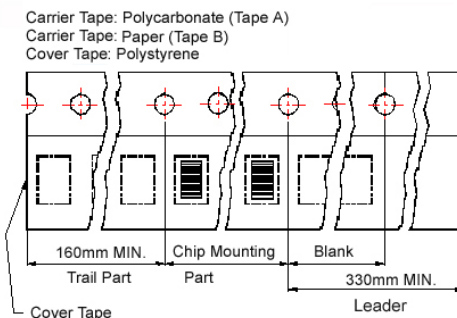
Please be sure to request approval specifications that provide further details of the products. Kindly note that the content of these specifications are subject to change or may be discontinued without advance notice. Please contact our sales department before ordering.

Packaging Specifications

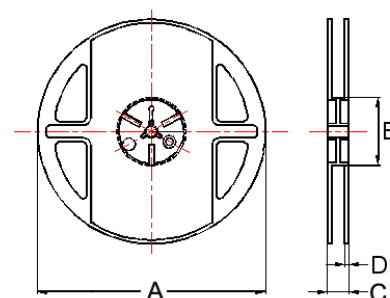
Tape Dimensions



Tape Material



Reel Dimensions



- ① : SBY / SBJ / NB / PB
- ② : SBY / SBJ / NB / PB / UPB / HF ③ : UPB
- ④ : SBK / SBJ / GB / PB / NB / UPB / VPB
- ⑤ : SBK / GB / PB / UPB ⑥ : SBY / SBK / PBY / UPB

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 |

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[NCB-H0402P100TR200F](#) [NCB-H0603R121TR300F](#) [NCB-H0805A220TR600F](#) [NCB-H1206B601TR200F](#) [CIM21J252NE](#) [EMI0805R-220](#)
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