

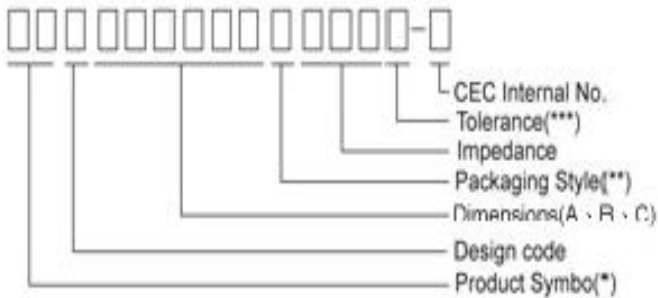
Multilayer Ferrite Chip beads



We offers hundreds of multi-layered ferrite chip beads with various sizes, frequency characteristics, and a wide range of impedance values to provide powerful solutions for EMI problems.

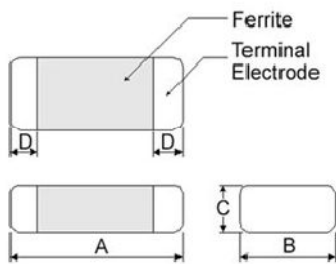
Three formulas of ferrite compose several types of EMI suppression chip beads that are classified into six categories - SB, GB, PB, UPB, NB, and HF series.

Product Identification



- Product Symbol: SB, GB, PB, UPB, NB, HF
- Packaging: T : Tape and Reel ; B : Bulk
- Tolerance: Y = $\pm 25\%$; M = $\pm 20\%$; T: $\pm 30\%$
- Note: lead-free

Shapes and Dimensions



Dimensions in mm

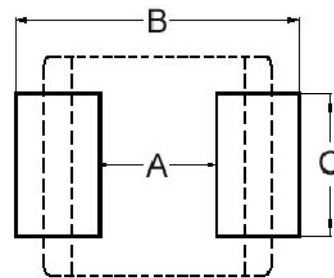
| TYPE | A | B | C | D |
|---------|----------------|-----------------|-----------------|-----------------|
| ①100505 | 1.0 \pm 0.10 | 0.50 \pm 0.10 | 0.5 \pm 0.10 | 0.25 \pm 0.10 |
| ②160808 | 1.6 \pm 0.15 | 0.80 \pm 0.15 | 0.8 \pm 0.15 | 0.3 \pm 0.2 |
| ③201209 | 2.0 \pm 0.20 | 1.25 \pm 0.20 | 0.9 \pm 0.20 | 0.5 \pm 0.3 |
| ④201212 | 2.0 \pm 0.20 | 1.25 \pm 0.20 | 1.25 \pm 0.20 | 0.5 \pm 0.3 |
| ⑤321611 | 3.2 \pm 0.20 | 1.60 \pm 0.20 | 1.1 \pm 0.20 | 0.5 \pm 0.3 |
| ⑤321616 | 3.2 \pm 0.20 | 1.60 \pm 0.20 | 1.6 \pm 0.20 | 0.5 \pm 0.3 |
| ⑥322513 | 3.2 \pm 0.20 | 2.50 \pm 0.20 | 1.3 \pm 0.20 | 0.5 \pm 0.3 |
| ⑦451616 | 4.5 \pm 0.25 | 1.60 \pm 0.20 | 1.6 \pm 0.20 | 0.5 \pm 0.3 |
| ⑦453215 | 4.5 \pm 0.25 | 3.20 \pm 0.20 | 1.5 \pm 0.20 | 0.5 \pm 0.3 |

- ① : SB / PB / NB / HF ② : SB / PB / NB / GB / UPB / HF
 ③ : SB / PB / NB / GB / UPB ④ : UPB ⑤ : SB / GB
 ⑥ : SB / PB / GB ⑦ : SB / PB / GB / UPB

Dimension Conversion

| Code | Dimension in mm (AxBxC) | EIA |
|--------|----------------------------|------|
| 100505 | 1.0X0.5X0.5 | 0402 |
| 160808 | 1.6x0.8x0.8 | 0603 |
| 201209 | 2.0x1.2x0.9 | 0805 |
| 321611 | 3.2x1.6x.1.1 | 1206 |
| 321616 | 3.2x1.6x1.6 | 1206 |
| 322513 | 3.2x2.5x1.3 | 1210 |
| 451616 | 4.5x1.6x1.6 | 1806 |
| 453215 | 4.5x3.2x1.5 | 1812 |

Recommended Pattern



Dimensions in mm

| TYPE | A | B | C |
|---------|-----------|-----------|-----------|
| ①100505 | 0.4 | 1.2 ~ 1.4 | 0.5 |
| ②160808 | 0.7 ~ 0.8 | 1.8 ~ 2.0 | 0.6 ~ 0.8 |
| ③201209 | 1.0 ~ 1.2 | 2.6 ~ 4.0 | 1.0 ~ 1.2 |
| ④201212 | 1.0 ~ 1.2 | 2.6 ~ 4.0 | 1.0 ~ 1.2 |
| ⑤321611 | 2.0 | 4.2 ~ 5.2 | 1.2 |
| ⑤321616 | 2.0 | 4.2 ~ 5.2 | 1.2 |
| ⑥322513 | 2.0 | 5.5 ~ 6.5 | 1.8 |
| ⑦451616 | 3.0 | 5.5 ~ 6.5 | 1.2 |
| ⑦453215 | 3.0 | 5.5 ~ 6.5 | 2.4 |

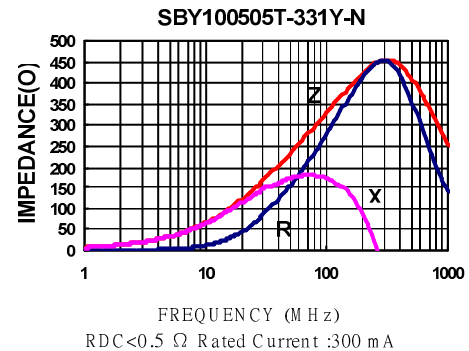
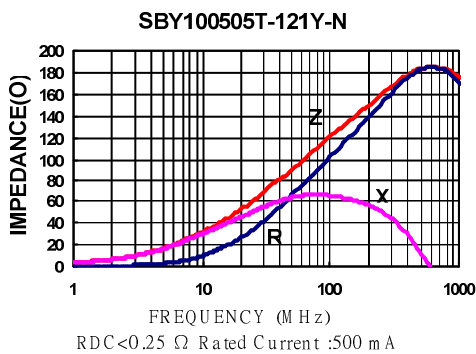
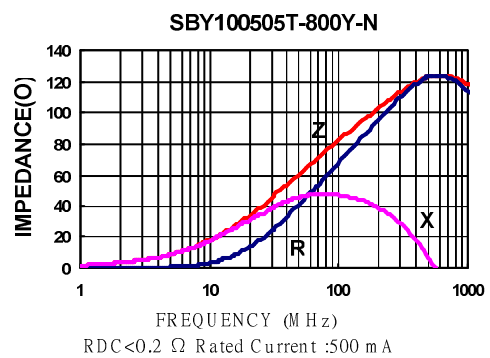
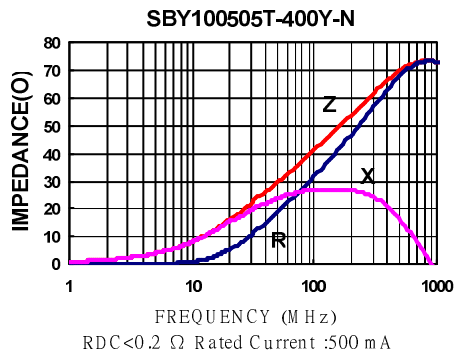
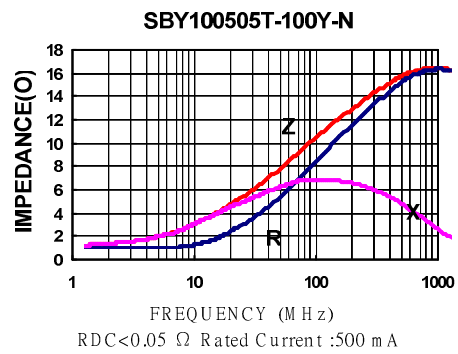
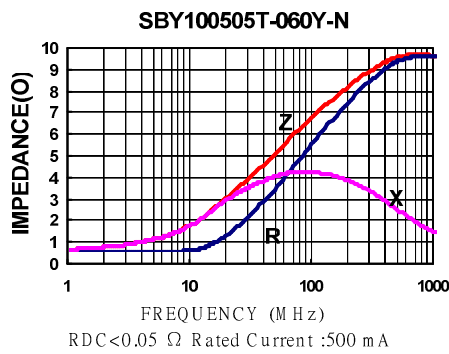
- * Don't apply narrower pattern than listed above to PB and UPB. Narrow pattern might cause excessive heat or open circuit.

SMD Multilayer Ferrite Chip Beads – SB100505 Series

Electrical Characteristics

| Part Number | Test Frequency (MHz) | Impedance ($\Omega \pm 25\%$) | DC Resistance (Ω) Max | Rated current (mA) Max |
|-------------------|----------------------|---------------------------------|--------------------------------|------------------------|
| SBY100505T-060Y-N | 100 | 6 | 0.05 | 500 |
| SBY100505T-100Y-N | 100 | 10 | 0.05 | 500 |
| SBY100505T-220Y-N | 100 | 22 | 0.15 | 500 |
| SBY100505T-400Y-N | 100 | 40 | 0.20 | 500 |
| SBY100505T-600Y-N | 100 | 60 | 0.20 | 500 |
| SBY100505T-700Y-N | 100 | 70 | 0.20 | 500 |
| SBY100505T-800Y-N | 100 | 80 | 0.20 | 500 |
| SBY100505T-900Y-N | 100 | 90 | 0.25 | 500 |
| SBY100505T-101Y-N | 100 | 100 | 0.25 | 500 |
| SBY100505T-121Y-N | 100 | 120 | 0.25 | 500 |
| SBY100505T-241Y-N | 100 | 240 | 0.40 | 400 |
| SBY100505T-301Y-N | 100 | 300 | 0.50 | 300 |
| SBY100505T-331Y-N | 100 | 330 | 0.50 | 300 |

Test Instruments : HP4291A Impedance / Material Analyzer

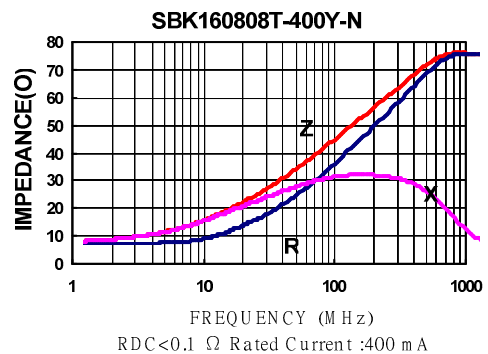
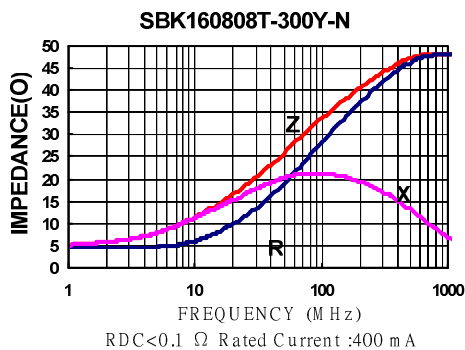
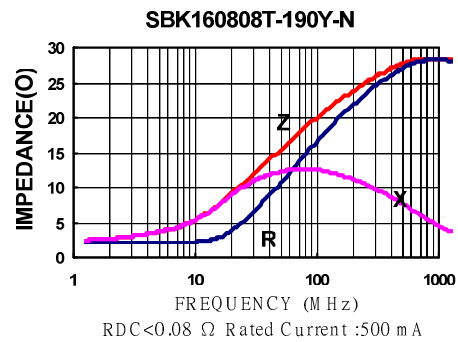
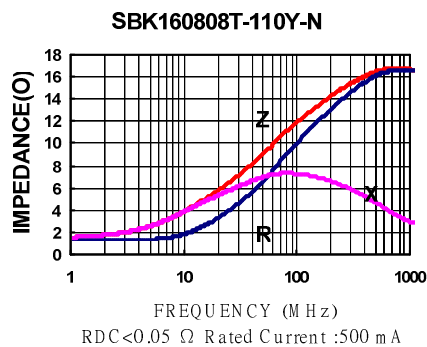


SMD Multilayer Ferrite Chip Beads – SB160808 Series

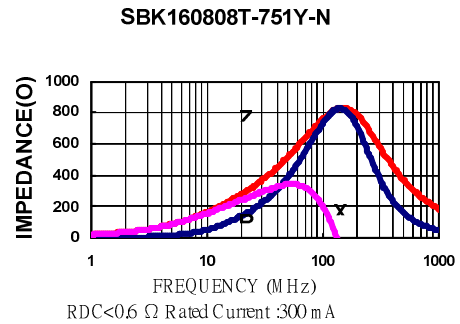
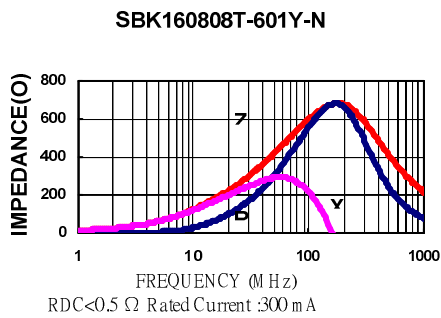
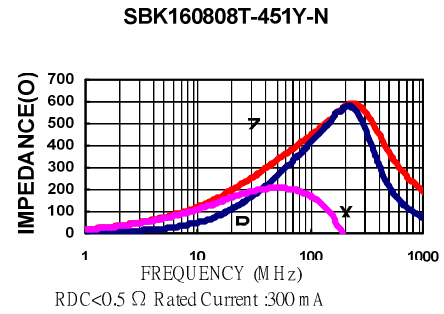
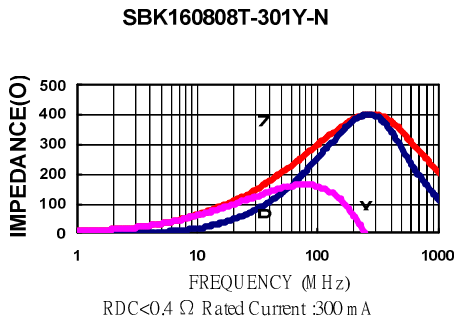
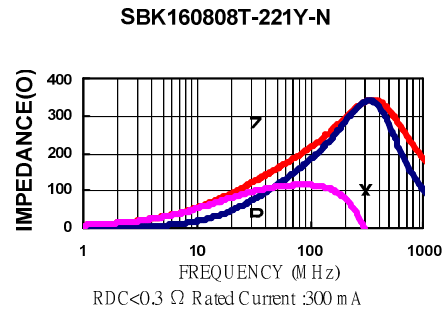
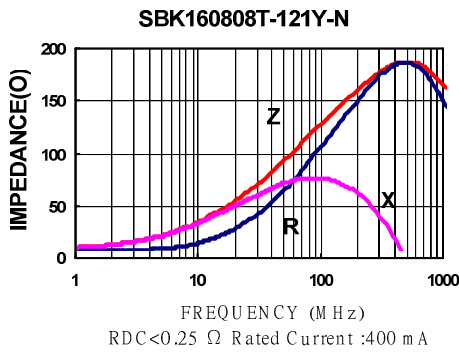
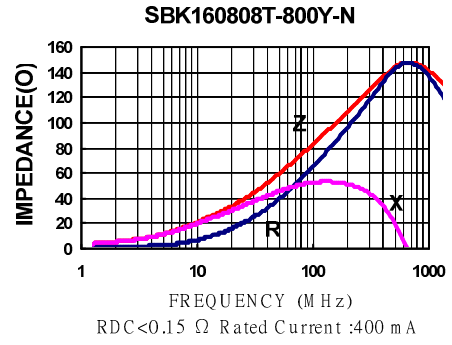
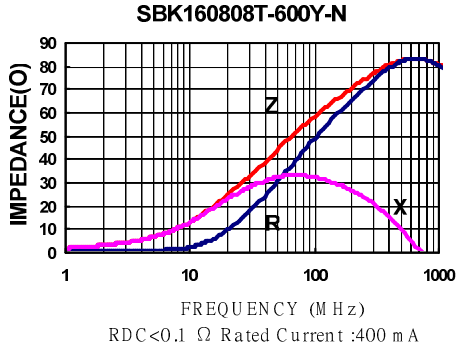
Electrical Characteristics

| Part Number | Test Frequency (MHz) | Impedance ($\Omega \pm 25\%$) | DC Resistance (Ω) Max | Rated current (mA) Max |
|-------------------|----------------------|---------------------------------|--------------------------------|------------------------|
| SBK160808T-060Y-N | 100 | 6 | 0.05 | 500 |
| SBK160808T-070Y-N | 100 | 7 | 0.05 | 500 |
| SBK160808T-110Y-N | 100 | 11 | 0.05 | 500 |
| SBK160808T-190Y-N | 100 | 19 | 0.08 | 500 |
| SBK160808T-300Y-N | 100 | 30 | 0.10 | 400 |
| SBK160808T-400Y-N | 100 | 40 | 0.10 | 400 |
| SBK160808T-600Y-N | 100 | 60 | 0.10 | 400 |
| SBK160808T-800Y-N | 100 | 80 | 0.15 | 400 |
| SBK160808T-121Y-N | 100 | 120 | 0.25 | 400 |
| SBK160808T-221Y-N | 100 | 220 | 0.30 | 300 |
| SBK160808T-301Y-N | 100 | 300 | 0.40 | 300 |
| SBK160808T-451Y-N | 100 | 450 | 0.50 | 300 |
| SBK160808T-601Y-N | 100 | 600 | 0.50 | 300 |
| SBK160808T-751Y-N | 100 | 750 | 0.60 | 300 |
| SBK160808T-102Y-N | 100 | 1000 | 0.60 | 300 |
| SBK160808T-152Y-N | 100 | 1500 | 0.60 | 300 |
| SBK160808T-222Y-N | 100 | 2200 | 0.80 | 200 |
| SBK160808T-272Y-N | 100 | 2700 | 0.80 | 200 |

Test Instruments : HP4291A Impedance / Material Analyzer

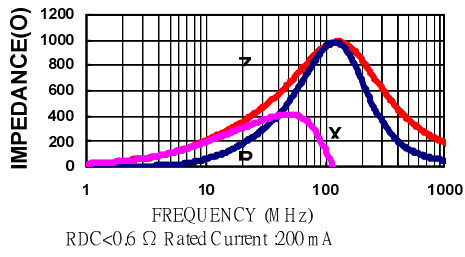


SMD Multilayer Ferrite Chip Beads – SB160808 Series

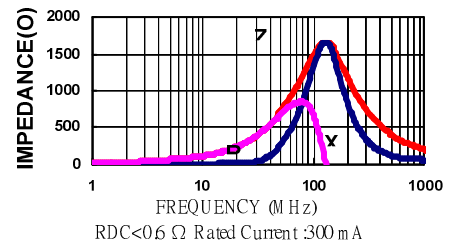


SMD Multilayer Ferrite Chip Beads – SB160808 Series

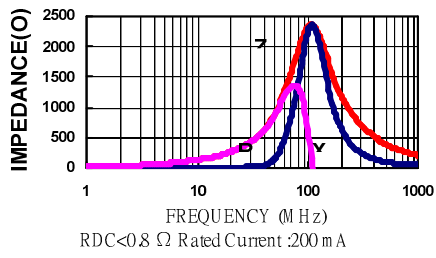
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SBK160808T-152Y-N



SBK160808T-222Y-N

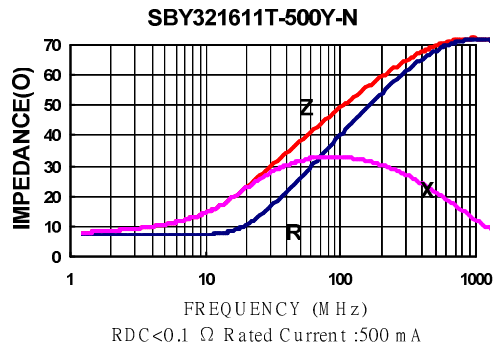
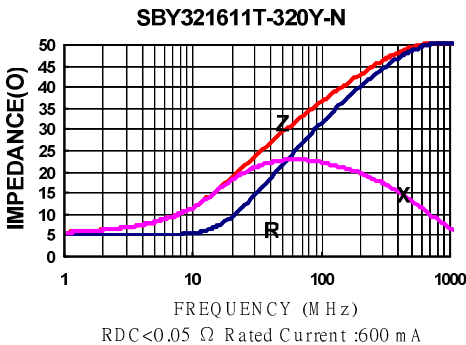
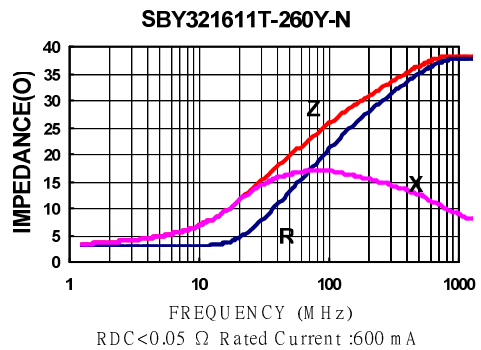
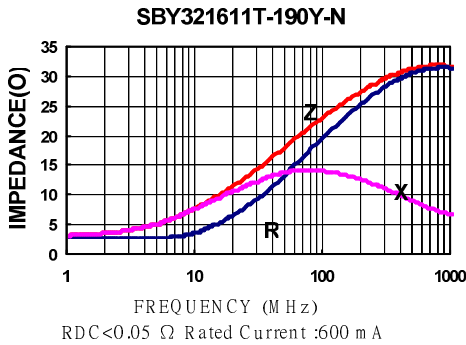


SMD Multilayer Ferrite Chip Beads – SB321611 Series

Electrical Characteristics

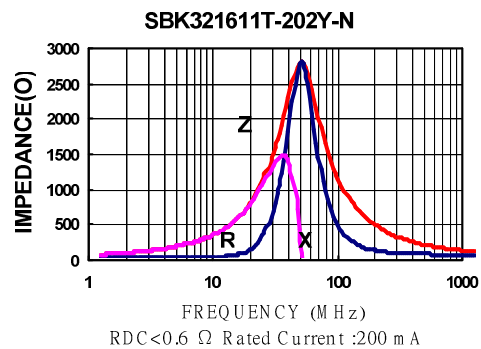
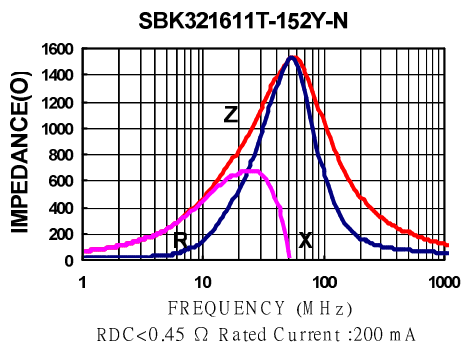
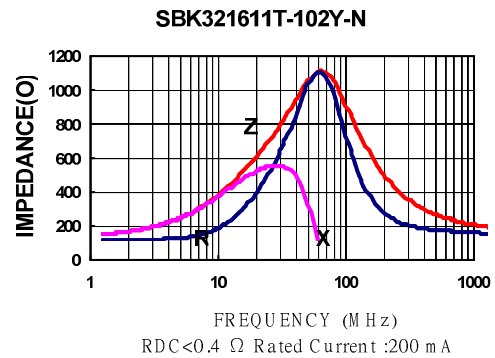
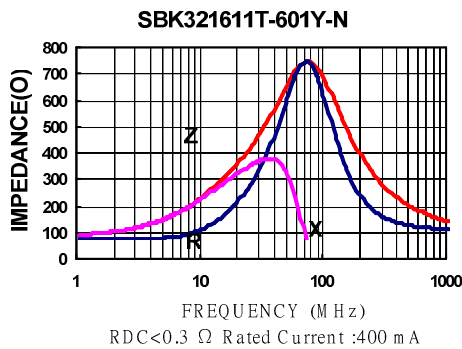
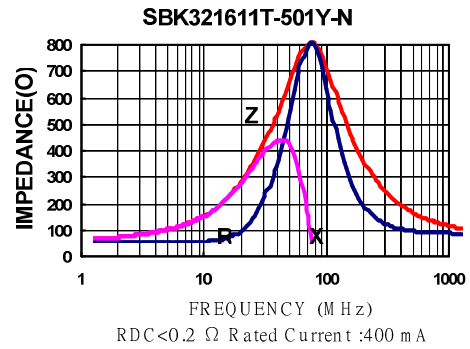
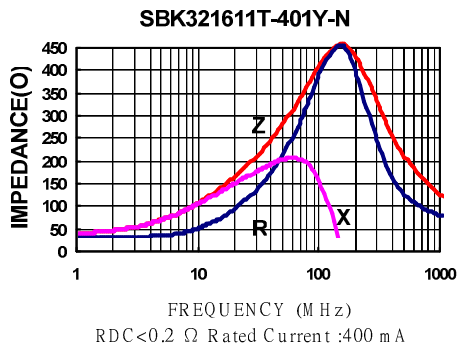
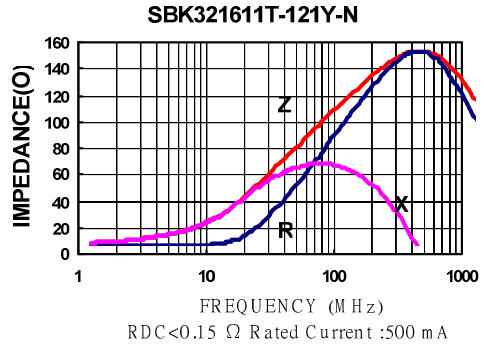
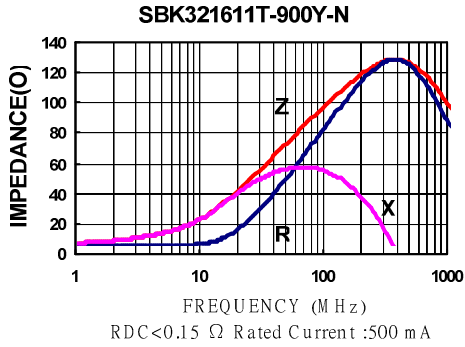
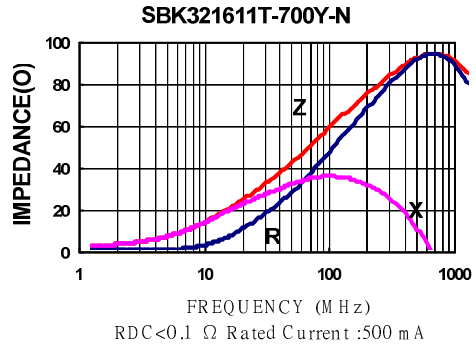
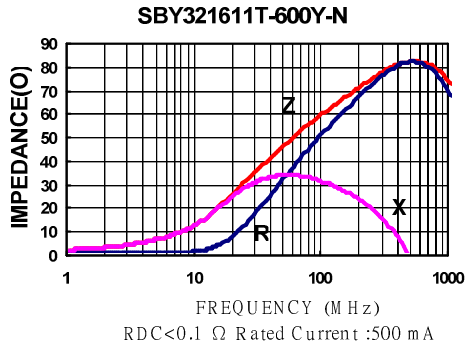
| Part Number | Test Frequency (MHz) | Impedance ($\Omega \pm 25\%$) | DC Resistance (Ω) Max | Rated current (mA) Max |
|-------------------|----------------------|---------------------------------|--------------------------------|------------------------|
| SBY321611T-080Y-N | 100 | 8 | 0.05 | 600 |
| SBY321611T-110Y-N | 100 | 11 | 0.05 | 600 |
| SBY321611T-190Y-N | 100 | 19 | 0.05 | 600 |
| SBY321611T-260Y-N | 100 | 26 | 0.05 | 600 |
| SBY321611T-320Y-N | 100 | 32 | 0.05 | 600 |
| SBY321611T-500Y-N | 100 | 50 | 0.10 | 500 |
| SBY321611T-600Y-N | 100 | 60 | 0.10 | 500 |
| SBK321611T-700Y-N | 100 | 70 | 0.10 | 500 |
| SBK321611T-900Y-N | 100 | 90 | 0.15 | 500 |
| SBK321611T-121Y-N | 100 | 120 | 0.15 | 500 |
| SBK321611T-151Y-N | 100 | 150 | 0.15 | 500 |
| SBK321611T-201Y-N | 100 | 200 | 0.20 | 400 |
| SBK321611T-401Y-N | 100 | 400 | 0.20 | 400 |
| SBK321611T-501Y-N | 100 | 500 | 0.20 | 400 |
| SBK321611T-601Y-N | 100 | 600 | 0.30 | 400 |
| SBK321611T-102Y-N | 50 | 1000 | 0.40 | 200 |
| SBK321611T-122Y-N | 50 | 1200 | 0.40 | 200 |
| SBK321611T-152Y-N | 50 | 1500 | 0.45 | 200 |
| SBK321611T-202Y-N | 30 | 2000 | 0.60 | 200 |
| SBK321611T-272Y-N | 30 | 2700 | 0.60 | 200 |

Test Instruments : HP4291A Impedance / Material Analyzer



SMD Multilayer Ferrite Chip Beads – SB321611 Series

Test Instruments : HP4291A Impedance / Material Analyzer

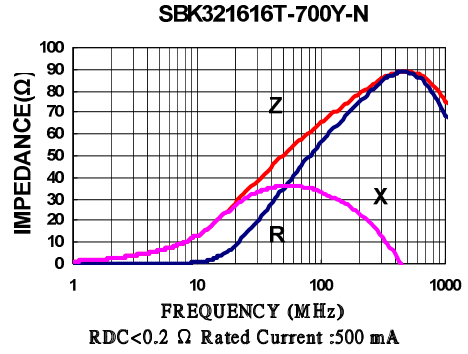
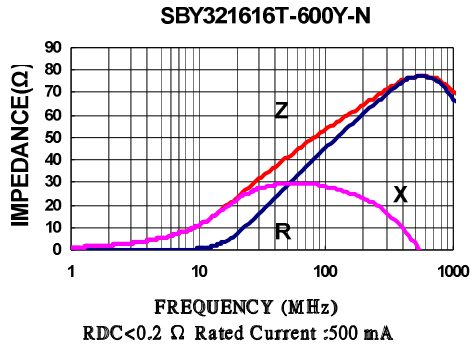


SMD Multilayer Ferrite Chip Beads – SB321616 Series

Electrical Characteristics

| Part Number | Test Frequency (MHz) | Impedance ($\Omega \pm 25\%$) | DC Resistance (Ω) Max | Rated current (mA) Max |
|-------------------|----------------------|---------------------------------|--------------------------------|------------------------|
| SBY321616T-250Y-N | 100 | 25 | 0.10 | 500 |
| SBY321616T-600Y-N | 100 | 60 | 0.20 | 500 |
| SBK321616T-700Y-N | 100 | 70 | 0.20 | 500 |

Test Instruments : HP4291A Impedance / Material Analyzer

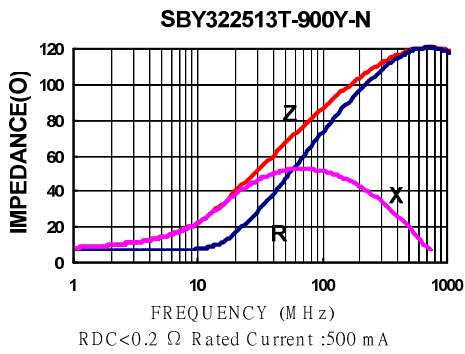
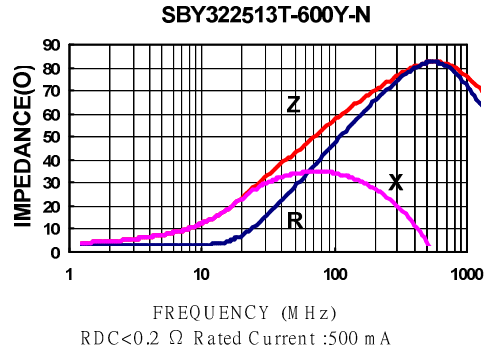
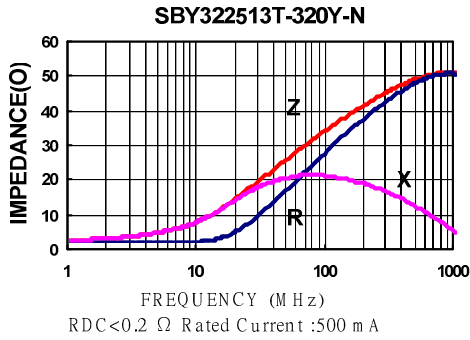


SMD Multilayer Ferrite Chip Beads – SB322513 Series

Electrical Characteristics

| Part Number | Test Frequency (MHz) | Impedance ($\Omega \pm 25\%$) | DC Resistance (Ω) Max | Rated current (mA) Max |
|-------------------|----------------------|---------------------------------|--------------------------------|------------------------|
| SBY322513T-320Y-N | 100 | 32 | 0.20 | 500 |
| SBY322513T-600Y-N | 100 | 60 | 0.20 | 500 |
| SBY322513T-900Y-N | 100 | 90 | 0.20 | 500 |
| SBY322513T-121Y-N | 100 | 120 | 0.20 | 500 |

Test Instruments : HP4291A Impedance / Material Analyzer

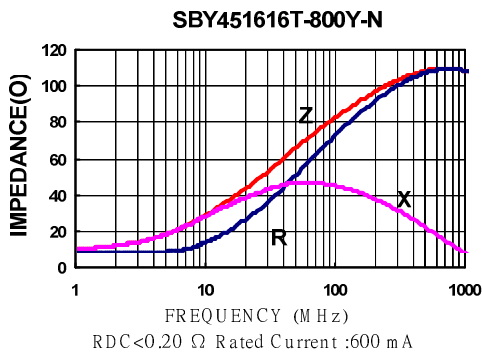
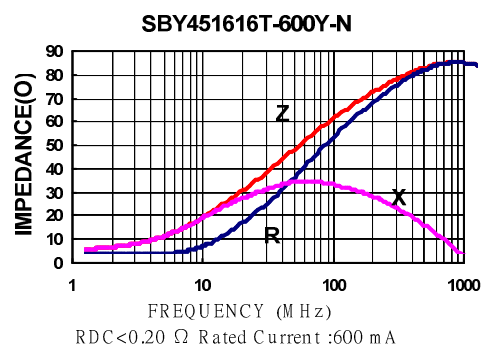
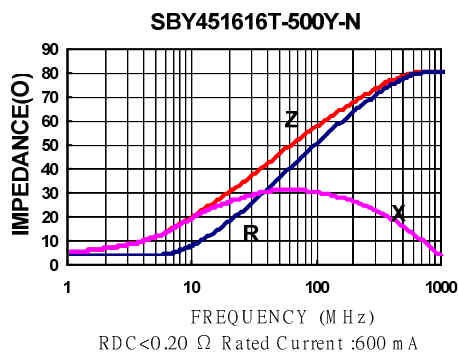


SMD Multilayer Ferrite Chip Beads – SB451616 Series

Electrical Characteristics

| Part Number | Test Frequency (MHz) | Impedance ($\Omega \pm 25\%$) | DC Resistance (Ω) Max | Rated current (mA) Max |
|-------------------|----------------------|---------------------------------|--------------------------------|------------------------|
| SBY451616T-330Y-N | 100 | 33 | 0.20 | 600 |
| SBY451616T-500Y-N | 100 | 50 | 0.20 | 600 |
| SBY451616T-600Y-N | 100 | 60 | 0.20 | 600 |
| SBY451616T-800Y-N | 100 | 80 | 0.20 | 600 |
| SBY451616T-101Y-N | 100 | 100 | 0.30 | 500 |
| SBK451616T-151Y-N | 100 | 150 | 0.30 | 500 |
| SBK451616T-171Y-N | 100 | 170 | 0.30 | 500 |

Test Instruments : HP4291A Impedance / Material Analyzer

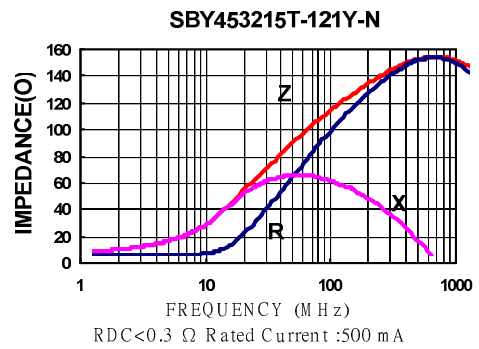
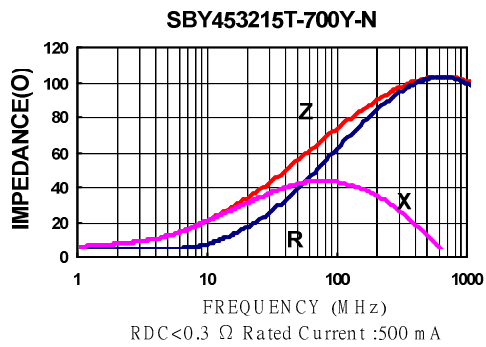


SMD Multilayer Ferrite Chip Beads – SB453215 Series

Electrical Characteristics

| Part Number | Test Frequency (MHz) | Impedance ($\Omega \pm 25\%$) | DC Resistance (Ω) Max | Rated current (mA) Max |
|-------------------|----------------------|---------------------------------|--------------------------------|------------------------|
| SBY453215T-700Y-N | 100 | 70 | 0.30 | 500 |
| SBY453215T-121Y-N | 100 | 120 | 0.30 | 500 |
| SBY453215T-125Y-N | 100 | 125 | 0.30 | 500 |
| SBY453215T-131Y-N | 100 | 130 | 0.30 | 500 |
| SBY453215T-151Y-N | 100 | 150 | 0.30 | 500 |

Test Instruments : HP4291A Impedance / Material Analyzer



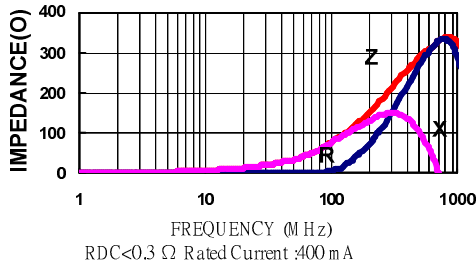
SMD Multilayer Ferrite Chip Beads – NB100505 Series

Electrical Characteristics

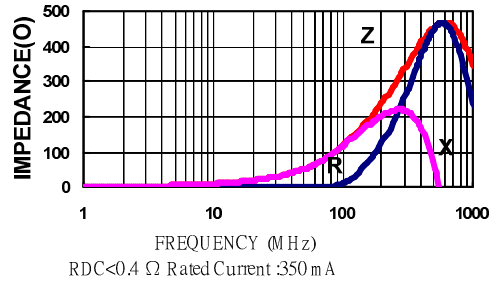
| Part Number | Test Frequency (MHz) | Impedance ($\Omega \pm 25\%$) | D.C. Resistance (Ω) Max | Rated current (mA) Max |
|-------------------|----------------------|---------------------------------|----------------------------------|------------------------|
| NBQ100505T-060Y-N | 100 | 6 | 0.08 | 500 |
| NBQ100505T-100Y-N | 100 | 10 | 0.10 | 500 |
| NBQ100505T-400Y-N | 100 | 40 | 0.25 | 400 |
| NBQ100505T-800Y-N | 100 | 80 | 0.30 | 400 |
| NBQ100505T-121Y-N | 100 | 120 | 0.40 | 350 |
| NBQ100505T-221Y-N | 100 | 220 | 0.60 | 200 |
| NBQ100505T-301Y-N | 100 | 300 | 0.80 | 200 |
| NBQ100505T-481Y-N | 100 | 480 | 1.10 | 200 |
| NBQ100505T-601Y-N | 100 | 600 | 1.20 | 200 |

Test Instruments : HP4291A Impedance / Material Analyzer

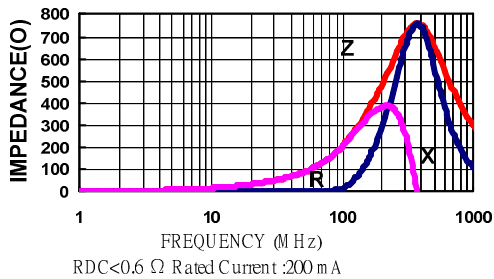
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NBQ100505T-121Y-N



NBQ100505T-221Y-N



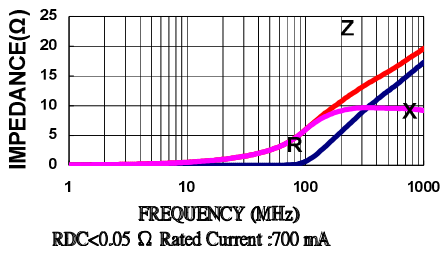
SMD Multilayer Ferrite Chip Beads – NB160808 Series

Electrical Characteristics

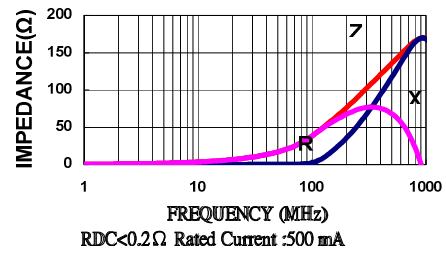
| Part Number | Test Frequency (MHz) | Impedance ($\Omega \pm 25\%$) | D.C. Resistance (Ω) Max | Rated current (mA) Max |
|-------------------|----------------------|---------------------------------|----------------------------------|------------------------|
| NBQ160808T-060Y-N | 100 | 6 | 0.05 | 700 |
| NBQ160808T-100Y-N | 100 | 10 | 0.07 | 500 |
| NBQ160808T-400Y-N | 100 | 40 | 0.20 | 500 |
| NBQ160808T-600Y-N | 100 | 60 | 0.25 | 500 |
| NBQ160808T-800Y-N | 100 | 80 | 0.25 | 500 |
| NBQ160808T-121Y-N | 100 | 120 | 0.30 | 400 |
| NBQ160808T-241Y-N | 100 | 240 | 0.35 | 400 |
| NBQ160808T-301Y-N | 100 | 300 | 0.40 | 400 |
| NBQ160808T-481Y-N | 100 | 480 | 0.50 | 200 |
| NBQ160808T-601Y-N | 100 | 600 | 0.50 | 200 |
| NBQ160808T-102Y-N | 100 | 1000 | 0.60 | 200 |
| NBQ160808T-122Y-N | 100 | 1200 | 0.60 | 100 |
| NBQ160808T-152Y-N | 100 | 1500 | 0.70 | 100 |
| NBQ160808T-182Y-N | 100 | 1800 | 0.80 | 100 |
| NBQ160808T-222Y-N | 100 | 2200 | 1.0 | 100 |
| NBQ160808T-252Y-N | 100 | 2500 | 1.0 | 100 |

Test Instruments : HP4291A Impedance / Material Analyzer

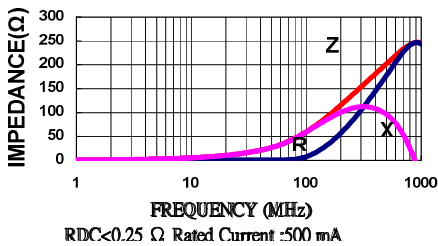
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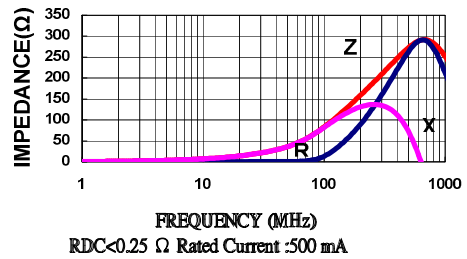
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NBQ160808T-600Y-N

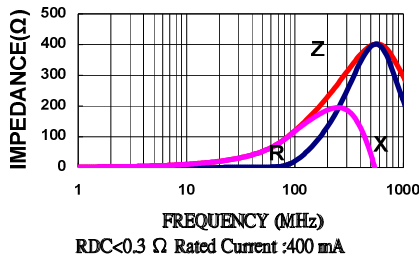


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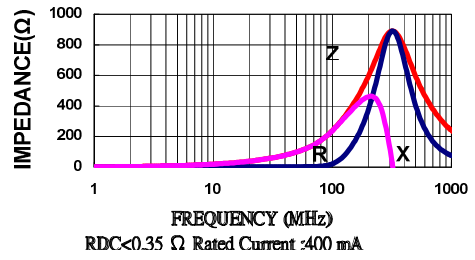


SMD Multilayer Ferrite Chip Beads – NB160808 Series

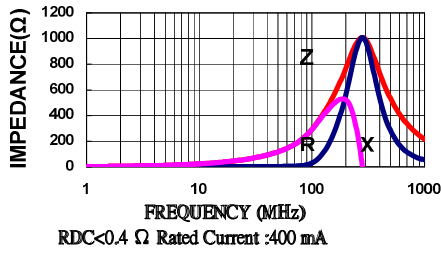
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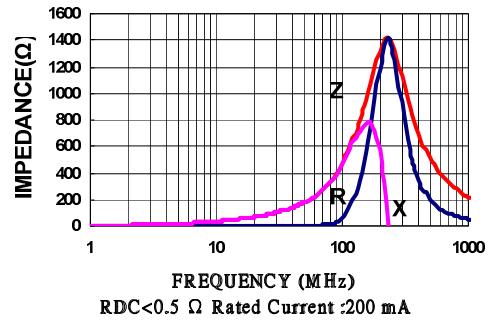
NBQ160808T-241Y-N



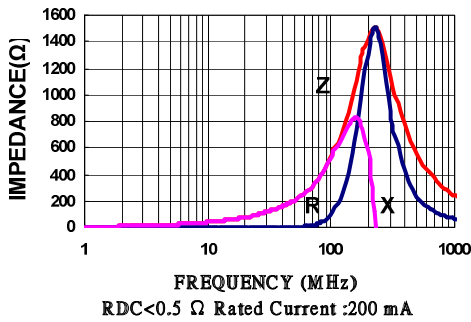
NBQ160808T-301Y-N



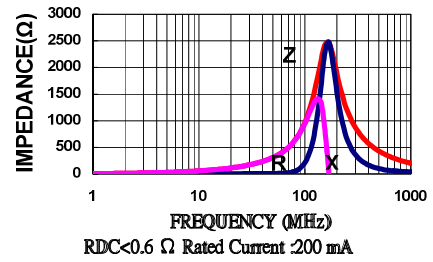
NBQ160808T-481Y-N



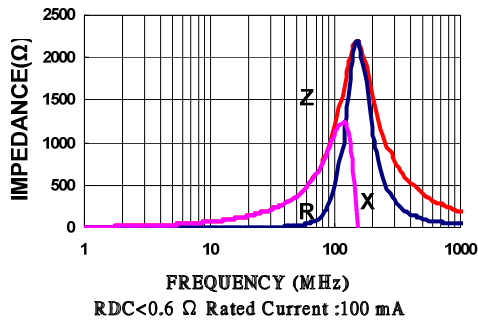
NBQ160808T-601Y-N



NBQ160808T-102Y-N



NBQ160808T-122Y-N

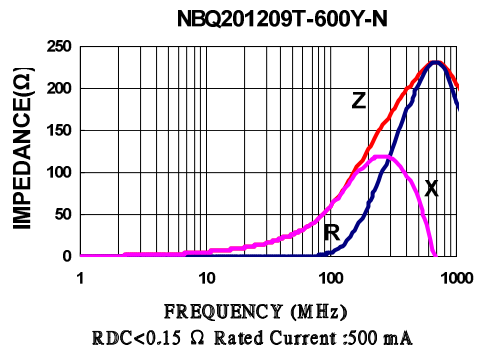
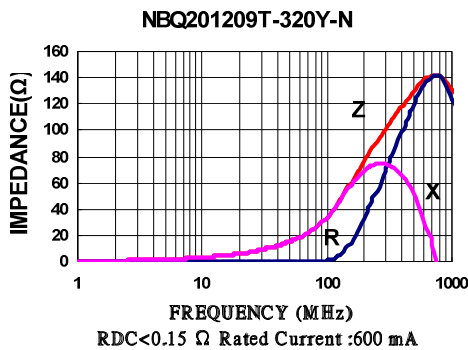
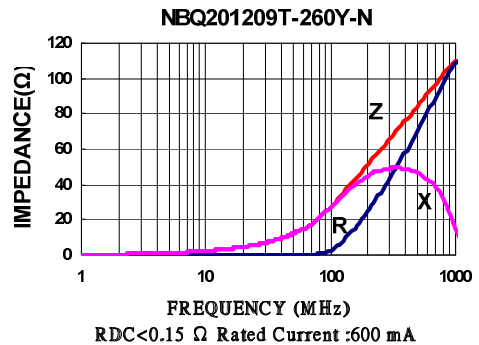
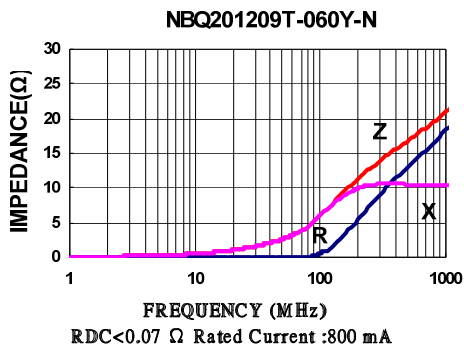


SMD Multilayer Ferrite Chip Beads – NB201209 Series

Electrical Characteristics

| Part Number | Test Frequency (MHz) | Impedance ($\Omega \pm 25\%$) | D.C. Resistance (Ω) Max | Rated current (mA) Max |
|-------------------|----------------------|---------------------------------|----------------------------------|------------------------|
| NBQ201209T-060Y-N | 100 | 6 | 0.07 | 800 |
| NBQ201209T-110Y-N | 100 | 11 | 0.10 | 700 |
| NBQ201209T-260Y-N | 100 | 26 | 0.15 | 600 |
| NBQ201209T-320Y-N | 100 | 32 | 0.15 | 600 |
| NBQ201209T-600Y-N | 100 | 60 | 0.15 | 500 |
| NBQ201209T-750Y-N | 100 | 75 | 0.15 | 500 |
| NBQ201209T-900Y-N | 100 | 90 | 0.15 | 500 |
| NBQ201209T-121Y-N | 100 | 120 | 0.20 | 500 |
| NBQ201209T-151Y-N | 100 | 150 | 0.20 | 500 |
| NBQ201209T-171Y-N | 100 | 170 | 0.30 | 500 |
| NBQ201209T-221Y-N | 100 | 220 | 0.30 | 500 |
| NBQ201209T-301Y-N | 100 | 300 | 0.30 | 500 |
| NBQ201209T-401Y-N | 100 | 400 | 0.35 | 500 |
| NBQ201209T-501Y-N | 100 | 500 | 0.35 | 500 |
| NBQ201209T-601Y-N | 100 | 600 | 0.35 | 500 |
| NBQ201209T-102Y-N | 100 | 1000 | 0.40 | 400 |
| NBQ201209T-122Y-N | 100 | 1200 | 0.45 | 400 |
| NBQ201209T-152Y-N | 100 | 1500 | 0.45 | 400 |
| NBQ201209T-222Y-N | 100 | 2200 | 0.50 | 400 |
| NBQ201209T-272Y-N | 100 | 2700 | 0.60 | 200 |

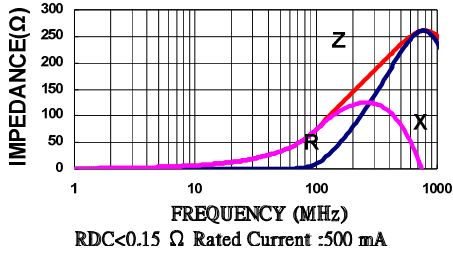
Test Instruments : HP4291A Impedance / Material Analyzer



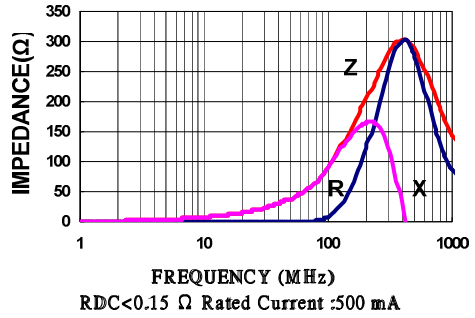
SMD Multilayer Ferrite Chip Beads – NB201209 Series

Test Instruments : HP4291A Impedance / Material Analyzer

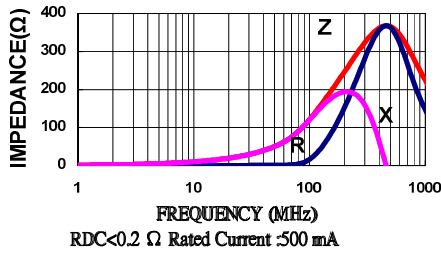
NBQ201209T-750Y-N



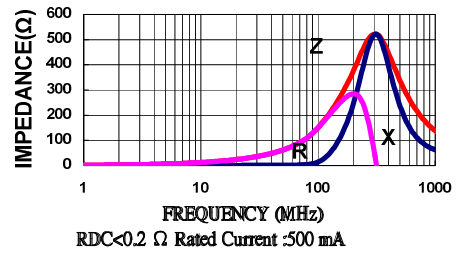
NBQ201209T-900Y-N



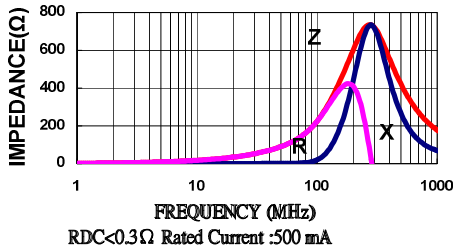
NBQ201209T-121Y-N



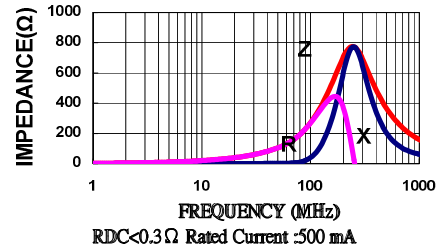
NBQ201209T-151Y-N



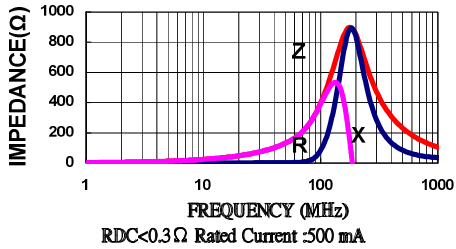
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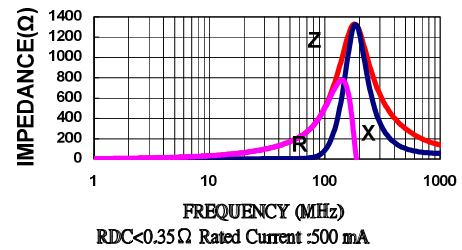
NBQ201209T-301Y-N



NBQ201209T-401Y-N



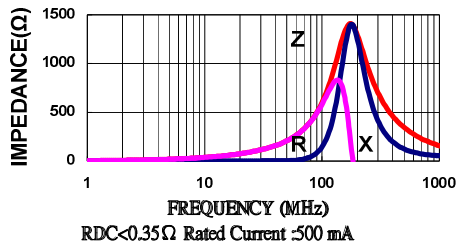
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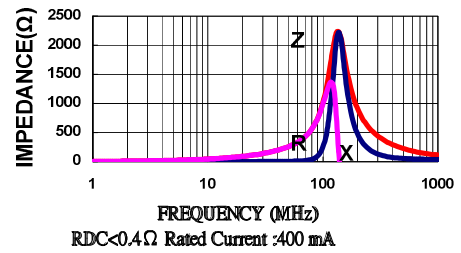
SMD Multilayer Ferrite Chip Beads – NB201209 Series

Test Instruments : HP4291A Impedance / Material Analyzer

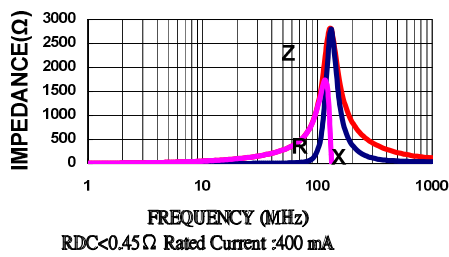
NBQ201209T-601Y-N



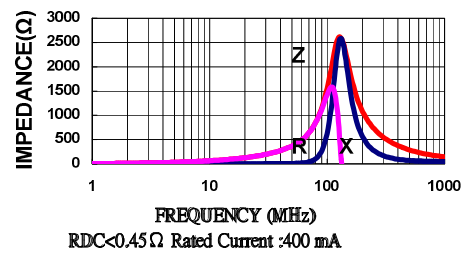
NBQ201209T-102Y-N



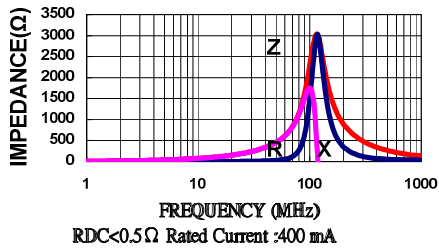
NBQ201209T-122Y-N



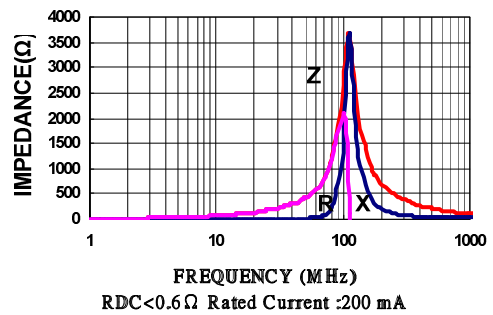
NBQ201209T-152Y-N



NBQ201209T-222Y-N



NBQ201209T-272Y-N

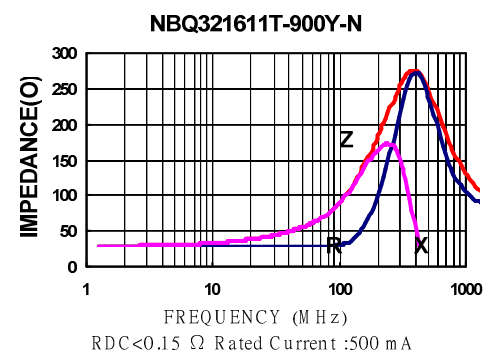
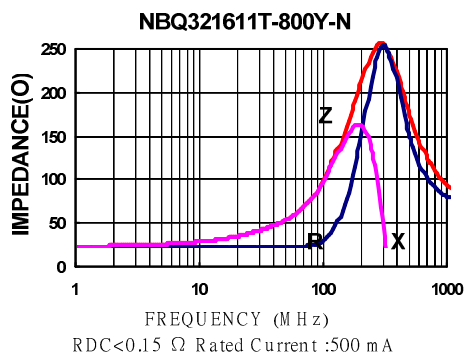
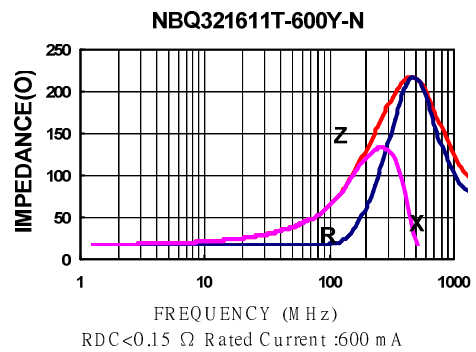
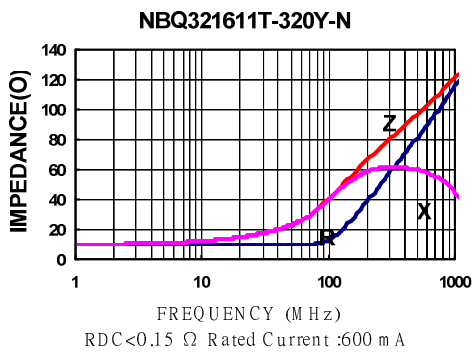


SMD Multilayer Ferrite Chip Beads – NB321611 Series

Electrical Characteristics

| Part Number | Test Frequency (MHz) | Impedance ($\Omega \pm 25\%$) | D.C. Resistance (Ω) Max | Rated current (mA) Max |
|-------------------|----------------------|---------------------------------|----------------------------------|------------------------|
| NBQ321611T-150Y-N | 100 | 15 | 0.15 | 600 |
| NBQ321611T-170Y-N | 100 | 17 | 0.15 | 600 |
| NBQ321611T-190Y-N | 100 | 19 | 0.15 | 600 |
| NBQ321611T-300Y-N | 100 | 30 | 0.15 | 600 |
| NBQ321611T-320Y-N | 100 | 32 | 0.15 | 600 |
| NBQ321611T-600Y-N | 100 | 60 | 0.15 | 500 |
| NBQ321611T-800Y-N | 100 | 80 | 0.15 | 500 |
| NBQ321611T-900Y-N | 100 | 90 | 0.15 | 500 |
| NBQ321611T-121Y-N | 100 | 120 | 0.20 | 500 |
| NBQ321611T-151Y-N | 100 | 150 | 0.20 | 500 |
| NBQ321611T-201Y-N | 100 | 200 | 0.25 | 400 |
| NBQ321611T-221Y-N | 100 | 220 | 0.30 | 400 |
| NBQ321611T-351Y-N | 100 | 350 | 0.30 | 400 |
| NBQ321611T-401Y-N | 100 | 400 | 0.30 | 400 |
| NBQ321611T-601Y-N | 100 | 600 | 0.35 | 400 |
| NBQ321611T-122Y-N | 100 | 1200 | 0.40 | 300 |
| NBQ321611T-152Y-N | 100 | 1500 | 0.45 | 300 |

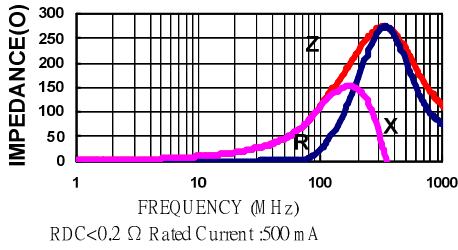
Test Instruments : HP4291A Impedance / Material Analyzer



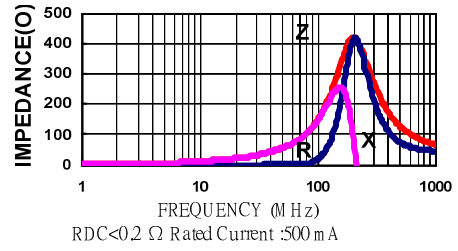
SMD Multilayer Ferrite Chip Beads – NB321611 Series

Test Instruments : HP4291A Impedance / Material Analyzer

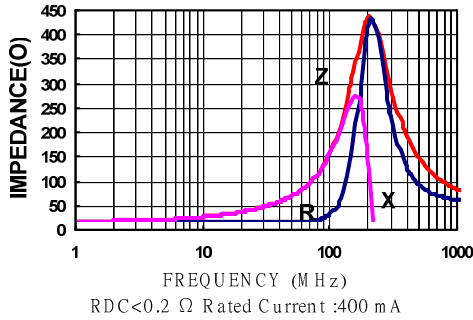
NBQ321611T-121Y-N



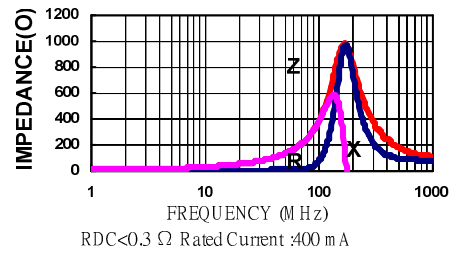
NBQ321611T-151Y-N



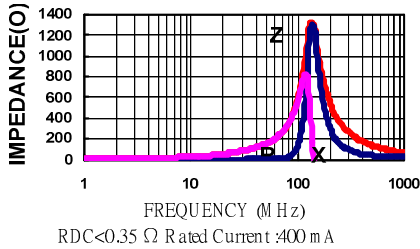
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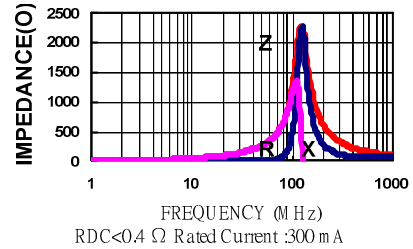
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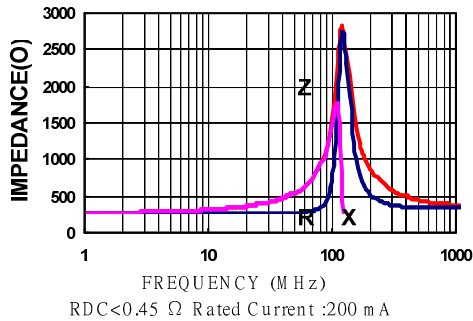
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NBQ321611T-122Y-N



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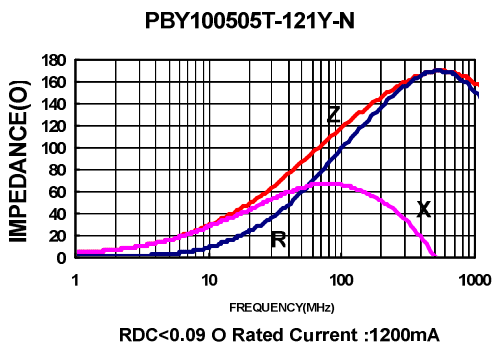
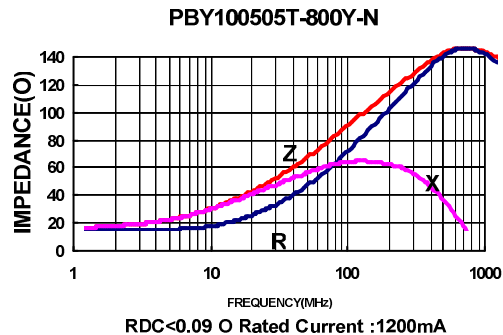
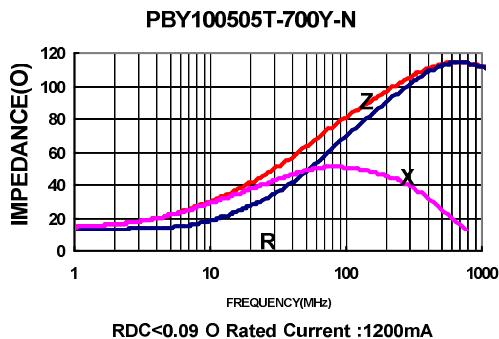
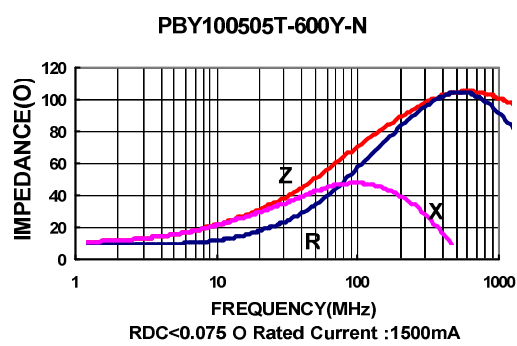
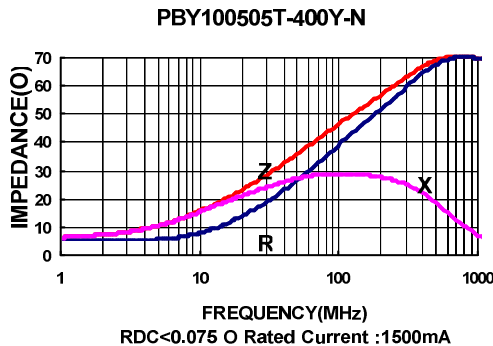
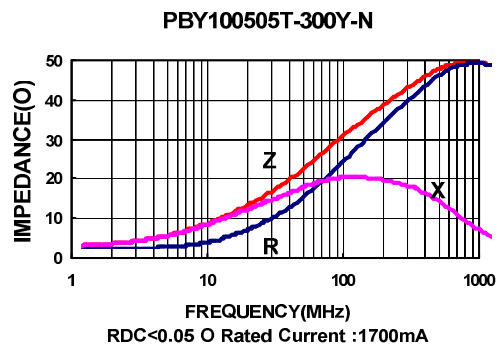
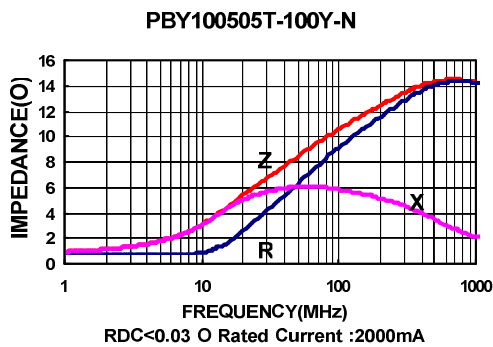


SMD Multilayer Ferrite Chip Beads – PB100505 Series

Electrical Characteristics

| Part Number | Test Frequency (MHz) | Impedance ($\Omega \pm 25\%$) | D.C. Resistance (Ω) Max | Rated current (mA) Max |
|-------------------|----------------------|---------------------------------|----------------------------------|------------------------|
| PBY100505T-070Y-N | 100 | 7 | 0.03 | 2000 |
| PBY100505T-100Y-N | 100 | 10 | 0.03 | 2000 |
| PBY100505T-300Y-N | 100 | 30 | 0.05 | 1700 |
| PBY100505T-400Y-N | 100 | 40 | 0.075 | 1500 |
| PBY100505T-600Y-N | 100 | 60 | 0.075 | 1500 |
| PBY100505T-700Y-N | 100 | 70 | 0.09 | 1200 |
| PBY100505T-800Y-N | 100 | 80 | 0.09 | 1200 |
| PBY100505T-121Y-N | 100 | 120 | 0.09 | 1200 |

Test Instruments : HP4291A Impedance / Material Analyzer

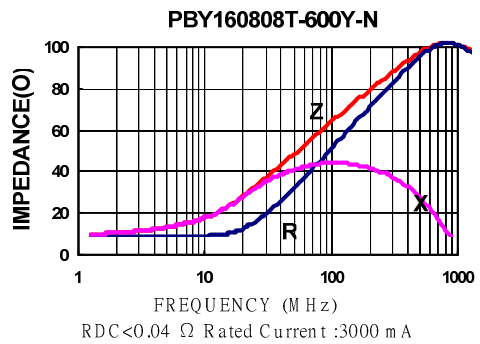
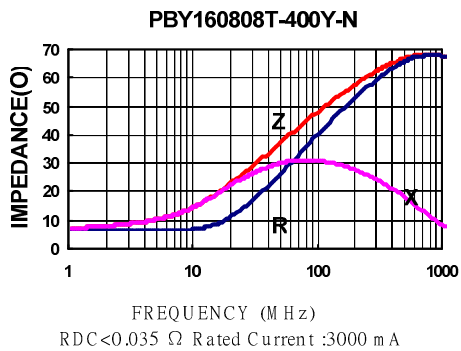
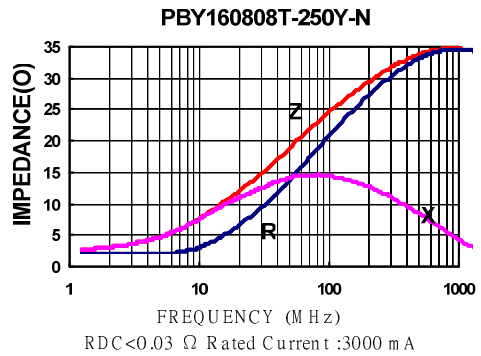
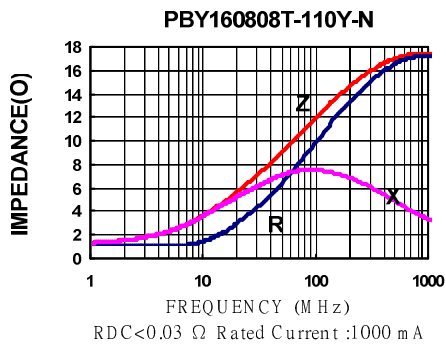


SMD Multilayer Ferrite Chip Beads – PB160808 Series

Electrical Characteristics

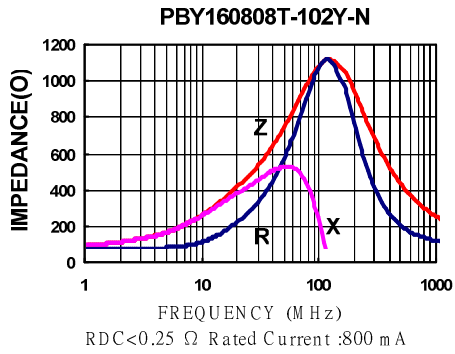
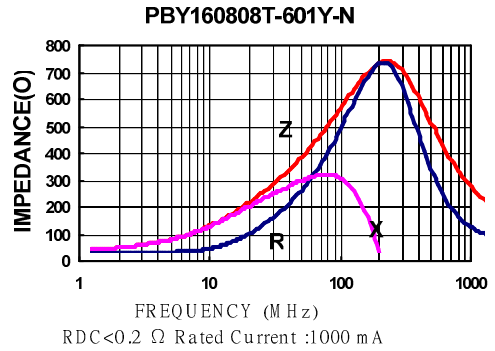
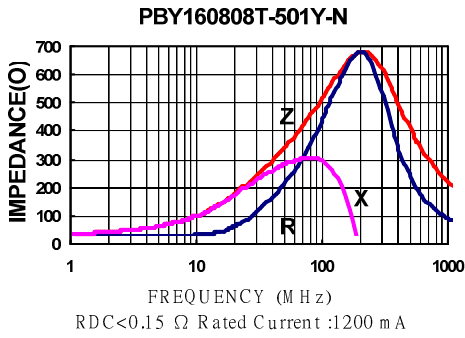
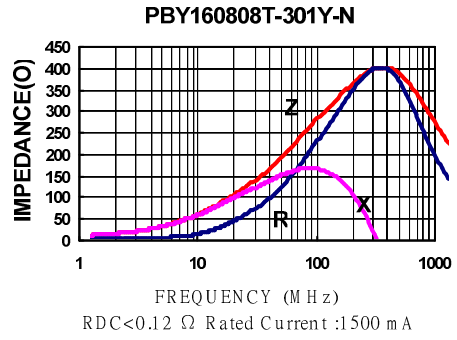
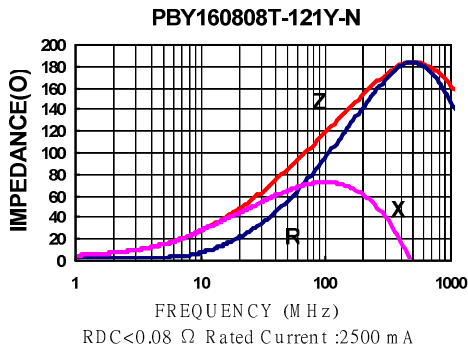
| Part Number | Test Frequency (MHz) | Impedance ($\Omega \pm 25\%$) | D.C. Resistance (Ω) Max | Rated current (mA) Max |
|-------------------|----------------------|---------------------------------|----------------------------------|------------------------|
| PBY160808T-060Y-N | 100 | 6 | 0.080 | 2500 |
| PBY160808T-070Y-N | 100 | 7 | 0.085 | 2000 |
| PBY160808T-110Y-N | 100 | 11 | 0.020 | 4000 |
| PBY160808T-250Y-N | 100 | 25 | 0.030 | 3000 |
| PBY160808T-400Y-N | 100 | 40 | 0.035 | 3000 |
| PBY160808T-600Y-N | 100 | 60 | 0.040 | 3000 |
| PBY160808T-121Y-N | 100 | 120 | 0.080 | 2500 |
| PBY160808T-151Y-N | 100 | 150 | 0.085 | 2000 |
| PBY160808T-181Y-N | 100 | 180 | 0.090 | 2000 |
| PBY160808T-201Y-N | 100 | 200 | 0.095 | 2000 |
| PBY160808T-301Y-N | 100 | 300 | 0.120 | 1500 |
| PBY160808T-501Y-N | 100 | 500 | 0.150 | 1200 |
| PBY160808T-601Y-N | 100 | 600 | 0.200 | 1000 |
| PBY160808T-102Y-N | 100 | 1000 | 0.250 | 800 |
| PBY160808T-122Y-N | 100 | 1200 | 0.250 | 800 |
| PBY160808T-152Y-N | 100 | 1500 | 0.400 | 500 |

Test Instruments : HP4291A Impedance / Material Analyzer



SMD Multilayer Ferrite Chip Beads – PB160808 Series

Test Instruments : HP4291A Impedance / Material Analyzer

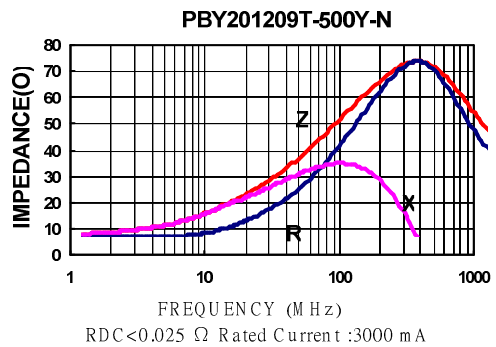
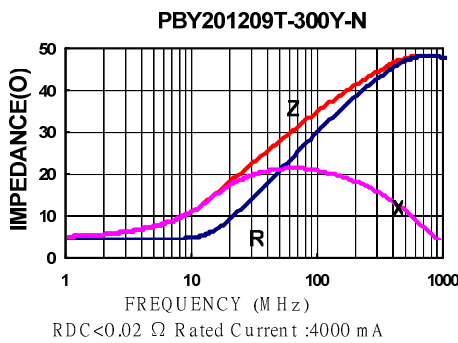
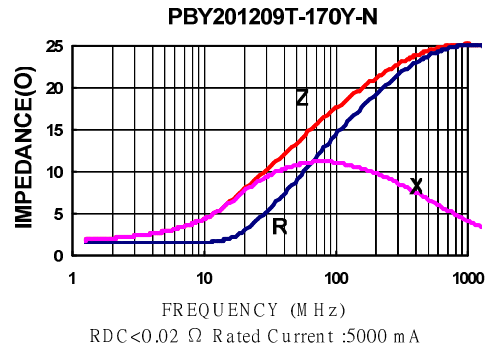
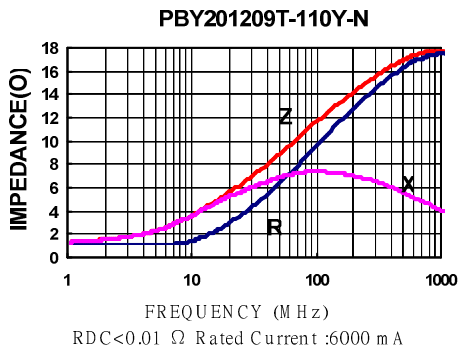


SMD Multilayer Ferrite Chip Beads – PB201209 Series

Electrical Characteristics

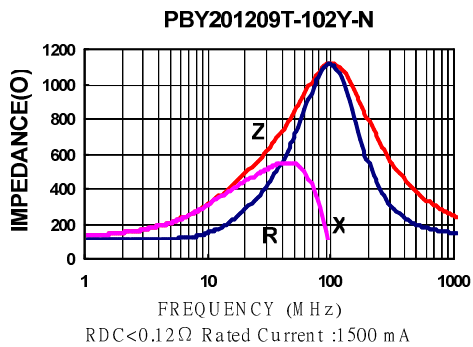
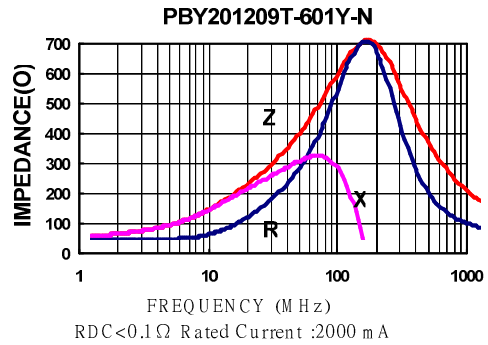
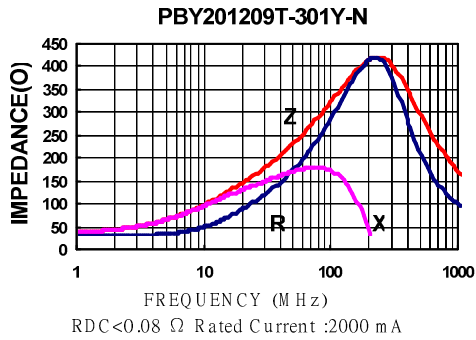
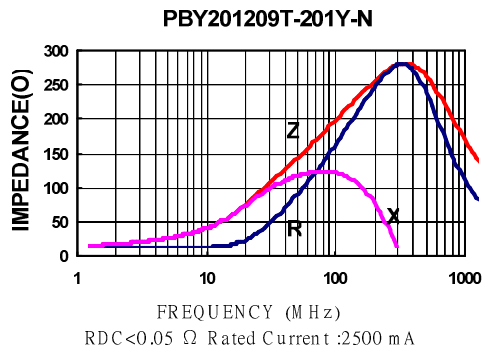
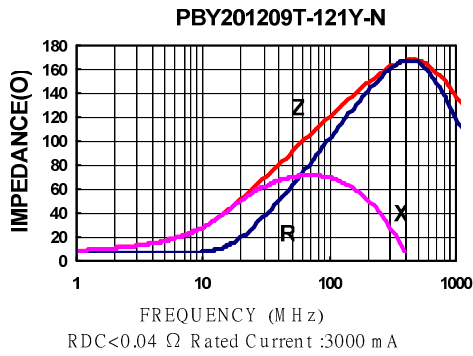
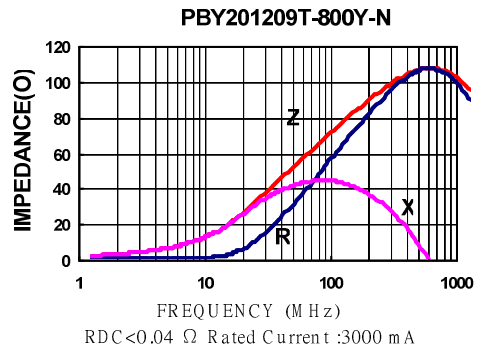
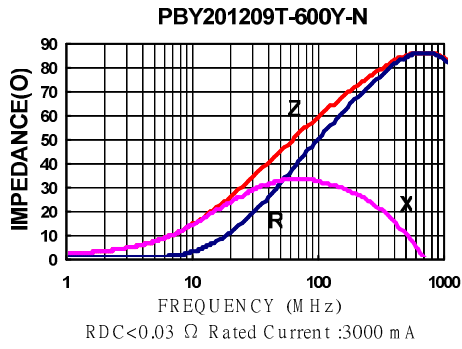
| Part Number | Test Frequency (MHz) | Impedance ($\Omega \pm 25\%$) | D.C. Resistance (Ω) Max | Rated current (mA) Max |
|-------------------|----------------------|---------------------------------|----------------------------------|------------------------|
| PBY201209T-070Y-N | 100 | 7 | 0.01 | 6000 |
| PBY201209T-110Y-N | 100 | 11 | 0.01 | 6000 |
| PBY201209T-170Y-N | 100 | 17 | 0.02 | 5000 |
| PBY201209T-300Y-N | 100 | 30 | 0.015 | 4000 |
| PBY201209T-500Y-N | 100 | 50 | 0.025 | 3000 |
| PBY201209T-600Y-N | 100 | 60 | 0.03 | 3000 |
| PBY201209T-800Y-N | 100 | 80 | 0.04 | 3000 |
| PBY201209T-121Y-N | 100 | 120 | 0.04 | 3000 |
| PBY201209T-201Y-N | 100 | 200 | 0.05 | 2500 |
| PBY201209T-301Y-N | 100 | 300 | 0.08 | 2000 |
| PBY201209T-401Y-N | 100 | 400 | 0.10 | 2000 |
| PBY201209T-751Y-N | 100 | 750 | 0.12 | 1500 |
| PBY201209T-601Y-N | 100 | 600 | 0.10 | 2000 |
| PBY201209T-102Y-N | 100 | 1000 | 0.12 | 1500 |
| PBY201209T-152Y-N | 100 | 1500 | 0.30 | 1000 |

Test Instruments : HP4291A Impedance / Material Analyzer



SMD Multilayer Ferrite Chip Beads – PB201209 Series

Test Instruments : HP4291A Impedance / Material Analyzer

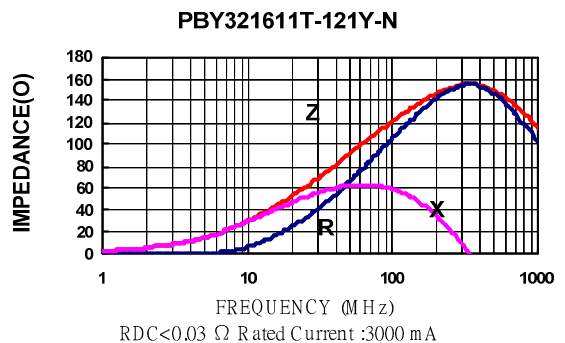
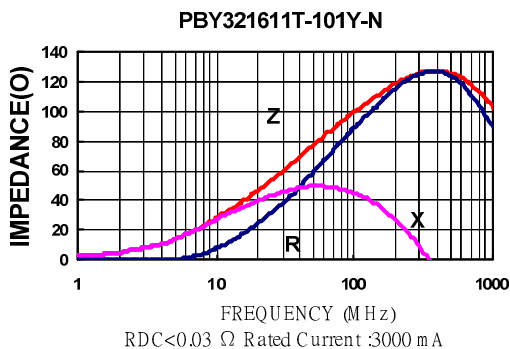
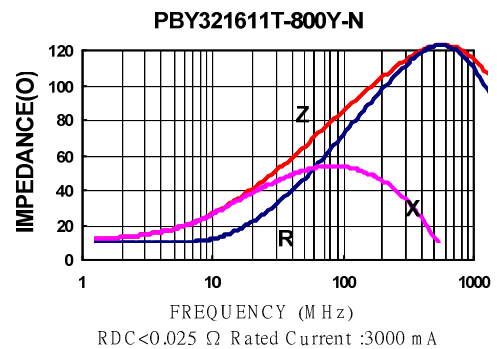
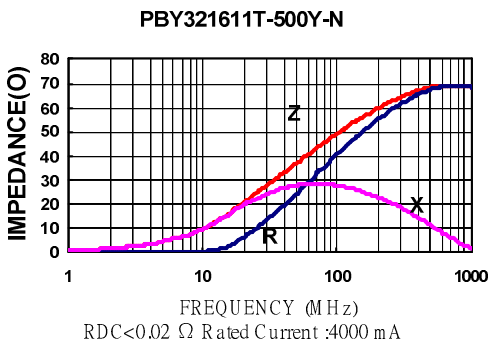
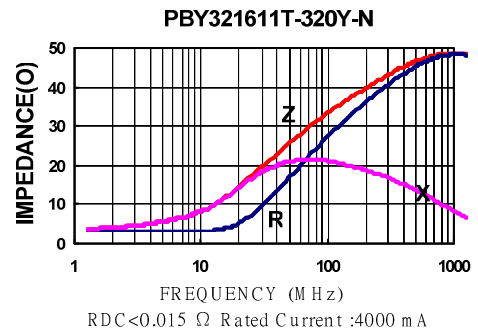
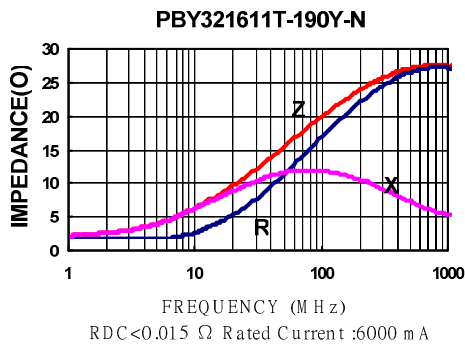


SMD Multilayer Ferrite Chip Beads – PB321611 Series

Electrical Characteristics

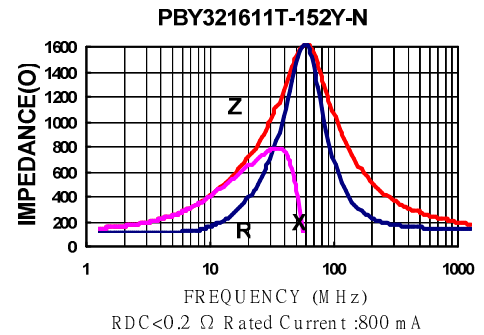
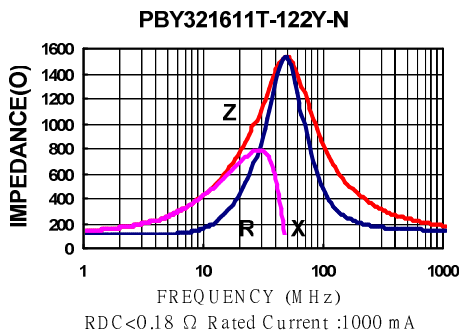
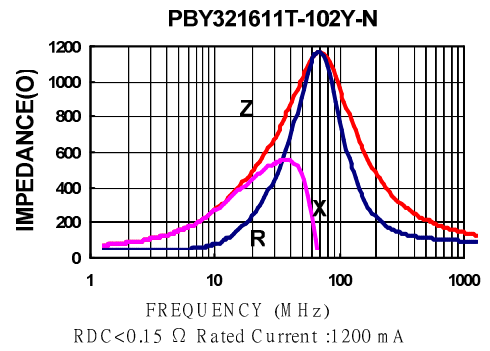
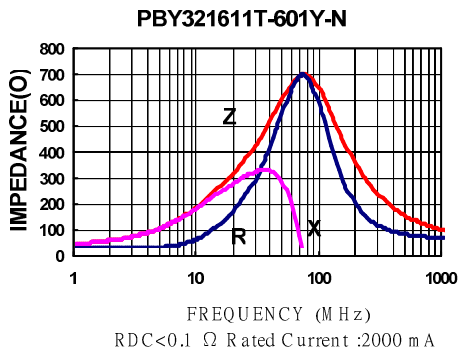
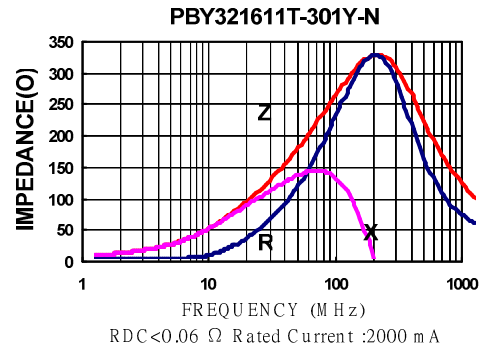
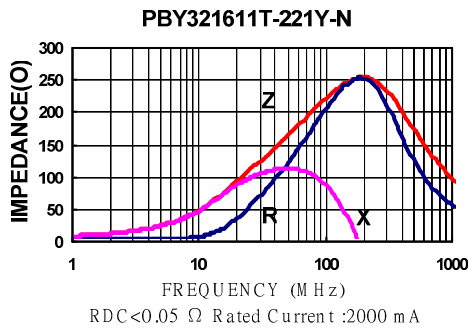
| Part Number | Test Frequency (MHz) | Impedance ($\Omega \pm 25\%$) | DC Resistance (Ω) Max | Rated current (mA) Max |
|-------------------|----------------------|---------------------------------|--------------------------------|------------------------|
| PBY321611T-080Y-N | 100 | 8 | 0.015 | 6000 |
| PBY321611T-110Y-N | 100 | 11 | 0.015 | 6000 |
| PBY321611T-190Y-N | 100 | 19 | 0.015 | 6000 |
| PBY321611T-320Y-N | 100 | 32 | 0.015 | 4000 |
| PBY321611T-500Y-N | 100 | 50 | 0.020 | 4000 |
| PBY321611T-800Y-N | 100 | 80 | 0.025 | 3000 |
| PBY321611T-101Y-N | 100 | 100 | 0.030 | 3000 |
| PBY321611T-121Y-N | 100 | 120 | 0.030 | 3000 |
| PBY321611T-221Y-N | 100 | 220 | 0.050 | 2000 |
| PBY321611T-301Y-N | 100 | 300 | 0.060 | 2000 |
| PBY321611T-601Y-N | 100 | 600 | 0.100 | 2000 |
| PBY321611T-102Y-N | 50 | 1000 | 0.150 | 1200 |
| PBY321611T-122Y-N | 50 | 1200 | 0.180 | 1000 |
| PBY321611T-152Y-N | 50 | 1500 | 0.200 | 800 |

Test Instruments : HP4291A Impedance / Material Analyzer



SMD Multilayer Ferrite Chip Beads – PB321611 Series

Test Instruments : HP4291A Impedance / Material Analyzer

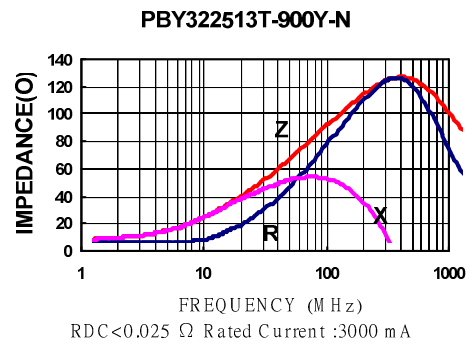
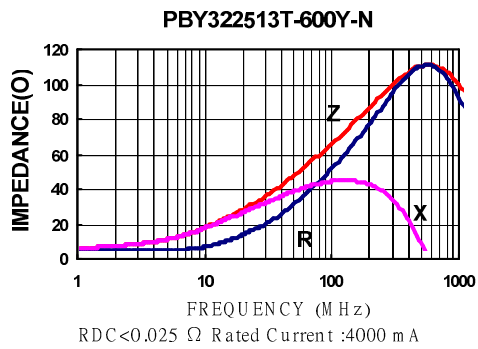


SMD Multilayer Ferrite Chip Beads – PB322513 Series

Electrical Characteristics

| Part Number | Test Frequency (MHz) | Impedance ($\Omega \pm 25\%$) | D.C. Resistance (Ω) Max | Rated current (mA) Max |
|-------------------|----------------------|---------------------------------|----------------------------------|------------------------|
| PBY322513T-190Y-N | 100 | 19 | 0.025 | 4000 |
| PBY322513T-300Y-N | 100 | 30 | 0.025 | 4000 |
| PBY321611T-320Y-N | 100 | 32 | 0.025 | 4000 |
| PBY321611T-500Y-N | 100 | 50 | 0.025 | 4000 |
| PBY322513T-600Y-N | 100 | 60 | 0.025 | 4000 |
| PBY322513T-900Y-N | 100 | 90 | 0.025 | 3000 |
| PBY322513T-121Y-N | 100 | 120 | 0.030 | 2500 |

Test Instruments : HP4291A Impedance / Material Analyzer

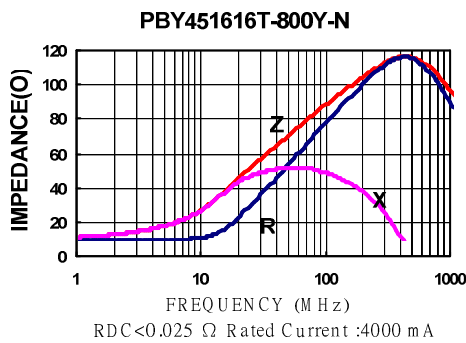
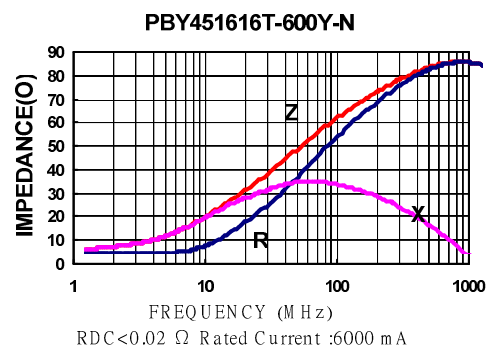
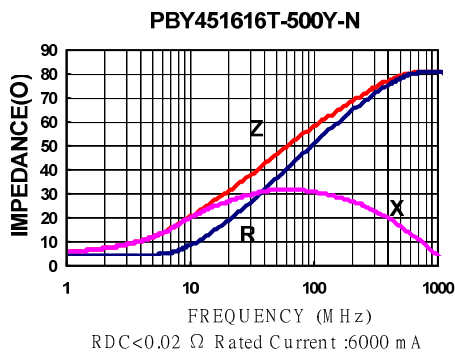


SMD Multilayer Ferrite Chip Beads – PB451616 Series

Electrical Characteristics

| Part Number | Test Frequency (MHz) | Impedance ($\Omega \pm 25\%$) | D.C. Resistance (Ω) Max | Rated current (mA) Max |
|-------------------|----------------------|---------------------------------|----------------------------------|------------------------|
| PBY451616T-190Y-N | 100 | 19 | 0.020 | 6000 |
| PBY451616T-400Y-N | 100 | 40 | 0.020 | 6000 |
| PBY451616T-500Y-N | 100 | 50 | 0.020 | 6000 |
| PBY451616T-600Y-N | 100 | 60 | 0.020 | 5000 |
| PBY451616T-800Y-N | 100 | 80 | 0.025 | 4000 |
| PBY451616T-900Y-N | 100 | 90 | 0.100 | 2000 |
| PBY451616T-151Y-N | 100 | 150 | 0.100 | 2000 |
| PBY451616T-301Y-N | 100 | 300 | 0.100 | 2000 |
| PBY451616T-471Y-N | 100 | 470 | 0.100 | 2000 |
| PBY451616T-601Y-N | 100 | 600 | 0.100 | 2000 |
| PBY451616T-102Y-N | 100 | 1000 | 0.100 | 2000 |
| PBY451616T-132Y-N | 100 | 1300 | 0.100 | 2000 |

Test Instruments : HP4291A Impedance / Material Analyzer

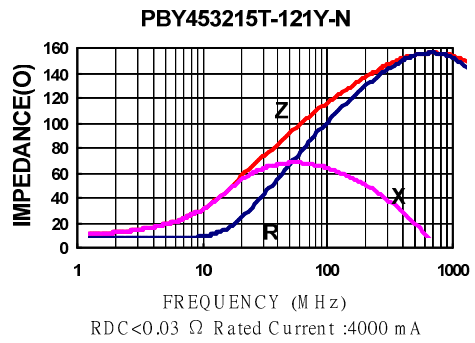
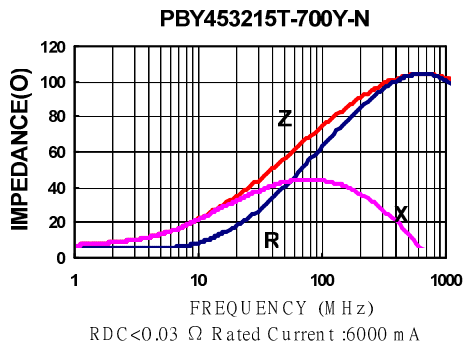


SMD Multilayer Ferrite Chip Beads – PB453215 Series

Electrical Characteristics

| Part Number | Test Frequency (MHz) | Impedance ($\Omega \pm 25\%$) | D.C. Resistance (Ω) Max | Rated current (mA) Max |
|-------------------|----------------------|---------------------------------|----------------------------------|------------------------|
| PBY453215T-190Y-N | 100 | 19 | 0.030 | 6000 |
| PBY453215T-300Y-N | 100 | 30 | 0.030 | 6000 |
| PBY453215T-500Y-N | 100 | 50 | 0.030 | 6000 |
| PBY453215T-600Y-N | 100 | 60 | 0.030 | 6000 |
| PBY453215T-700Y-N | 100 | 70 | 0.030 | 6000 |
| PBY453215T-121Y-N | 100 | 120 | 0.030 | 4000 |
| PBY453215T-151Y-N | 100 | 150 | 0.030 | 4000 |
| PBY453215T-601Y-N | 100 | 600 | 0.028 | 4000 |
| PBY453215T-132Y-N | 100 | 1300 | 0.150 | 1500 |

Test Instruments : HP4291A Impedance / Material Analyzer

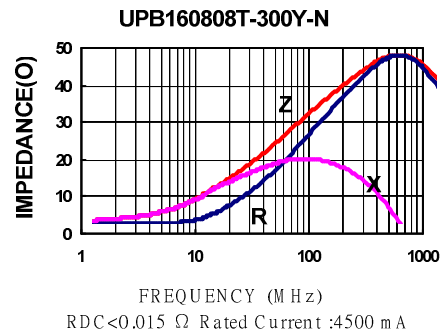
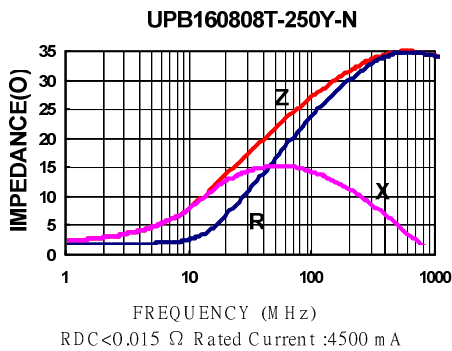


SMD Multilayer Ferrite Chip Beads – UPB 160808 Series

Electrical Characteristics

| Part Number | Test Frequency (MHz) | Impedance (Ω) | D.C. Resistance (Ω) Max | Rated current (mA) Max |
|-------------------|----------------------|------------------------|----------------------------------|------------------------|
| UPB160808T-100Y-N | 100 | 10 | 0.010 | 5000 |
| UPB160808T-110Y-N | 100 | 11 | 0.015 | 4500 |
| UPB160808T-170Y-N | 100 | 17 | 0.015 | 4500 |
| UPB160808T-250Y-N | 100 | 25 | 0.015 | 4500 |
| UPB160808T-300Y-N | 100 | 30 | 0.015 | 4500 |
| UPB160808T-400Y-N | 100 | 40 | 0.015 | 4500 |
| UPB160808T-600Y-N | 100 | 60 | 0.020 | 4000 |
| UPB160808T-700Y-N | 100 | 70 | 0.020 | 4000 |
| UPB160808T-101Y-N | 100 | 100 | 0.030 | 3000 |
| UPB160808T-121Y-N | 100 | 120 | 0.030 | 3000 |
| UPB160808T-181Y-N | 100 | 180 | 0.050 | 2000 |

Test Instruments : HP4291A Impedance / Material Analyzer

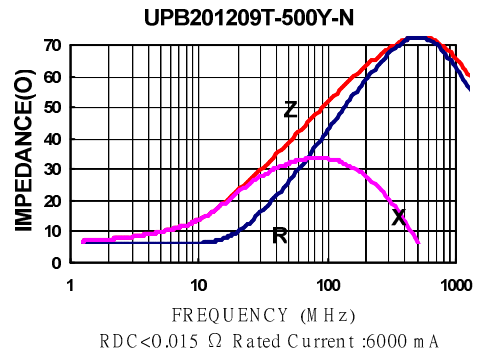
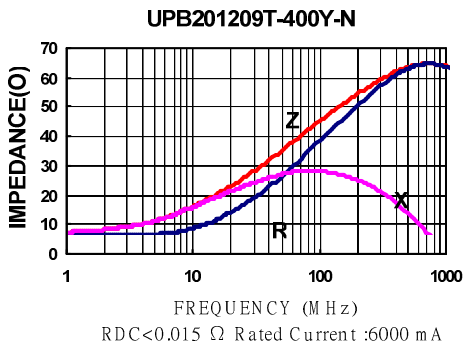
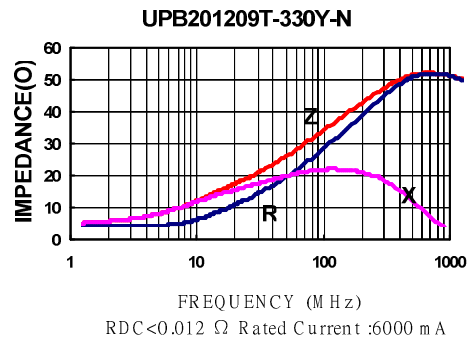
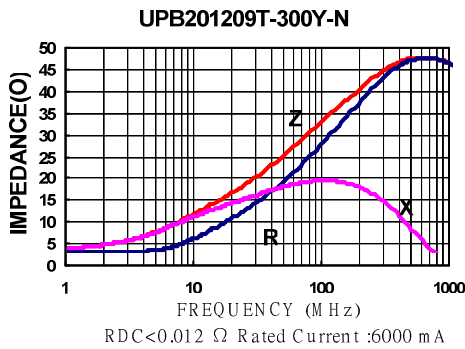


SMD Multilayer Ferrite Chip Beads – UPB 201209 Series

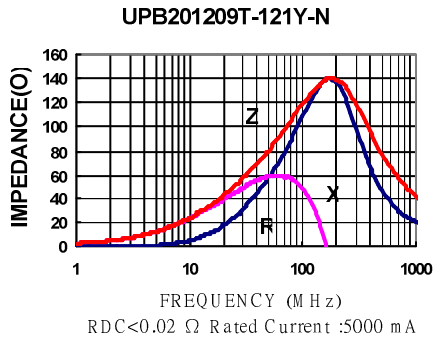
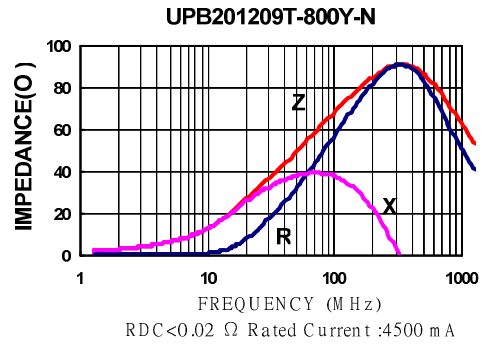
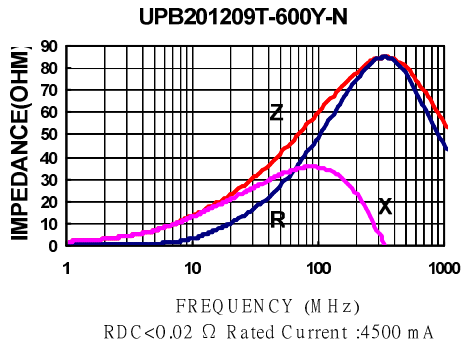
Electrical Characteristics

| Part Number | Test Frequency (MHz) | Impedance (Ω) | D.C. Resistance (Ω) Max | Rated current (mA) Max |
|-------------------|----------------------|------------------------|----------------------------------|------------------------|
| UPB201209T-110Y-N | 100 | 11 | 0.012 | 6000 |
| UPB201209T-150Y-N | 100 | 15 | 0.012 | 6000 |
| UPB201209T-190Y-N | 100 | 19 | 0.012 | 6000 |
| UPB201209T-260Y-N | 100 | 26 | 0.012 | 6000 |
| UPB201209T-300Y-N | 100 | 30 | 0.012 | 6000 |
| UPB201209T-330Y-N | 100 | 33 | 0.012 | 6000 |
| UPB201209T-400Y-N | 100 | 40 | 0.015 | 6000 |
| UPB201209T-500Y-N | 100 | 50 | 0.015 | 6000 |
| UPB201209T-600Y-N | 100 | 60 | 0.02 | 4500 |
| UPB201209T-800Y-N | 100 | 80 | 0.02 | 4500 |
| UPB201209T-101Y-N | 100 | 100 | 0.02 | 5000 |
| UPB201209T-121Y-N | 100 | 120 | 0.02 | 5000 |
| UPB201209T-201Y-N | 100 | 200 | 0.04 | 3000 |
| UPB201209T-221Y-N | 100 | 220 | 0.04 | 3000 |
| UPB201209T-301Y-N | 100 | 300 | 0.05 | 3000 |
| UPB201209T-331Y-N | 100 | 331 | 0.05 | 3000 |

Test Instruments : HP4291A Impedance / Material Analyzer



SMD Multilayer Ferrite Chip Beads – UPB 201209 Series

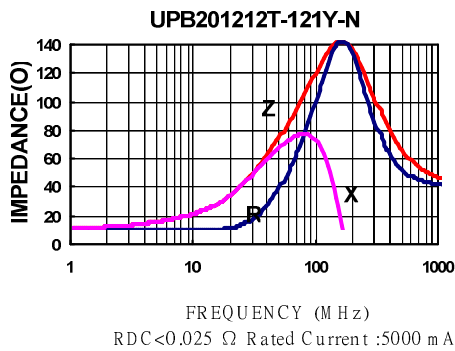
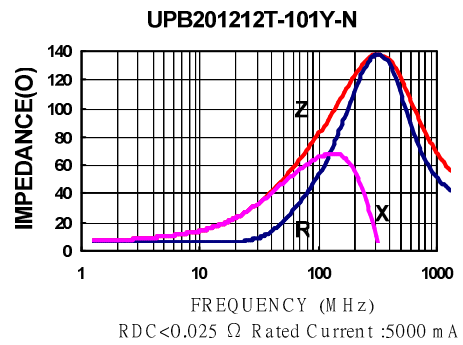
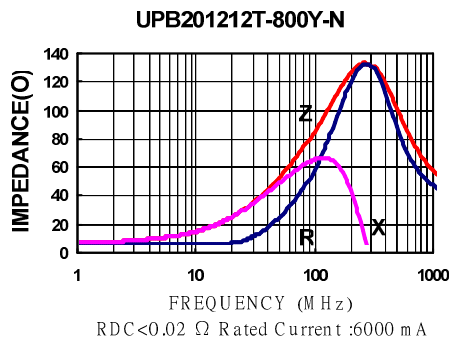


SMD Multilayer Ferrite Chip Beads – UPB 201212 Series

Electrical Characteristics

| Part Number | Test Frequency (MHz) | Impedance (Ω) | D.C. Resistance (Ω) Max | Rated current (mA) Max |
|-------------------|----------------------|------------------------|----------------------------------|------------------------|
| UPB201212T-500Y-N | 100 | 50 | 0.018 | 6000 |
| UPB201212T-600Y-N | 100 | 60 | 0.018 | 6000 |
| UPB201212T-700Y-N | 100 | 70 | 0.018 | 6000 |
| UPB201212T-800Y-N | 100 | 80 | 0.020 | 6000 |
| UPB201212T-900Y-N | 100 | 90 | 0.025 | 5000 |
| UPB201212T-101Y-N | 100 | 100 | 0.025 | 5000 |
| UPB201212T-121Y-N | 100 | 120 | 0.025 | 5000 |

Test Instruments : HP4291A Impedance / Material Analyzer

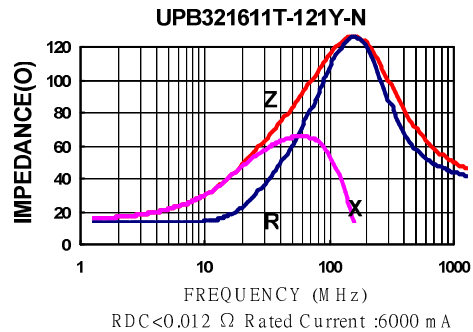
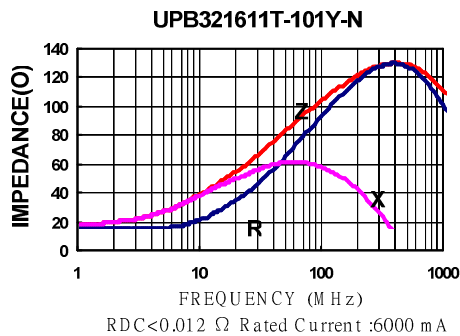
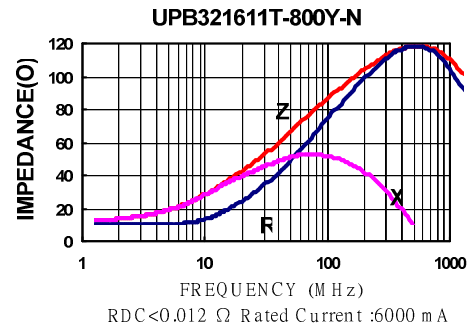
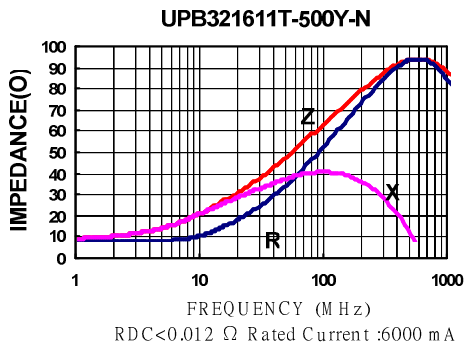
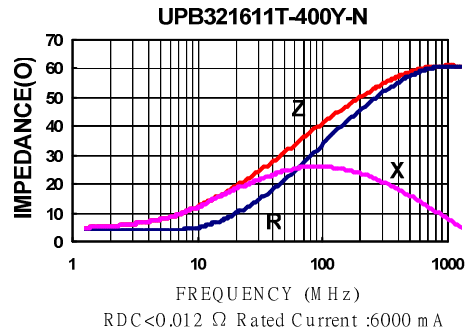
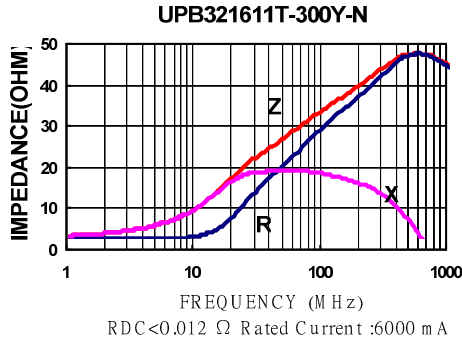


SMD Multilayer Ferrite Chip Beads – UPB 321611 Series

Electrical Characteristics

| Part Number | Test Frequency (MHz) | Impedance (Ω) | D.C. Resistance (Ω) Max | Rated current (mA) Max |
|-------------------|----------------------|------------------------|----------------------------------|------------------------|
| UPB321611T-110Y-N | 100 | 11 | 0.012 | 6000 |
| UPB321611T-190Y-N | 100 | 19 | 0.012 | 6000 |
| UPB321611T-260Y-N | 100 | 26 | 0.012 | 6000 |
| UPB321611T-300Y-N | 100 | 30 | 0.012 | 6000 |
| UPB321611T-400Y-N | 100 | 40 | 0.012 | 6000 |
| UPB321611T-500Y-N | 100 | 50 | 0.012 | 6000 |
| UPB321611T-600Y-N | 100 | 60 | 0.012 | 6000 |
| UPB321611T-800Y-N | 100 | 80 | 0.012 | 6000 |
| UPB321611T-101Y-N | 100 | 100 | 0.012 | 6000 |
| UPB321611T-121Y-N | 100 | 120 | 0.012 | 6000 |
| UPB321611T-151Y-N | 100 | 150 | 0.020 | 4500 |
| UPB321611T-181Y-N | 100 | 180 | 0.020 | 4500 |
| UPB321611T-221Y-N | 100 | 220 | 0.020 | 4500 |

Test Instruments : HP4291A Impedance / Material Analyzer

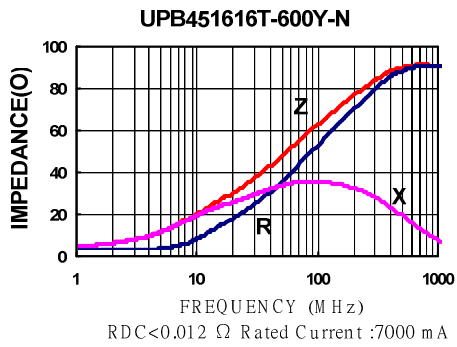


SMD Multilayer Ferrite Chip Beads – UPB 451616 Series

Electrical Characteristics

| Part Number | Test Frequency (MHz) | Impedance (Ω) | D.C. Resistance (Ω) Max | Rated current (mA) Max |
|-------------------|----------------------|------------------------|----------------------------------|------------------------|
| UPB451616T-600Y-N | 100 | 60 | 0.012 | 7000 |
| UPB451616T-111Y-N | 100 | 110 | 0.020 | 4000 |

Test Instruments : HP4291A Impedance / Material Analyzer

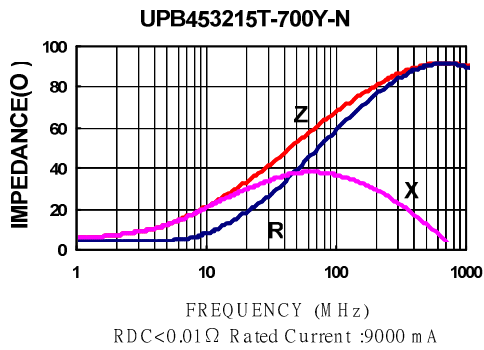


SMD Multilayer Ferrite Chip Beads – UPB 453215 Series

Electrical Characteristics

| Part Number | Test Frequency (MHz) | Impedance (Ω) | D.C. Resistance (Ω) Max | Rated current (mA) Max |
|-------------------|----------------------|------------------------|----------------------------------|------------------------|
| UPB453215T-400Y-N | 100 | 40 | 0.010 | 9000 |
| UPB453215T-560Y-N | 100 | 56 | 0.010 | 9000 |
| UPB453215T-700Y-N | 100 | 70 | 0.010 | 9000 |
| UPB453215T-800Y-N | 100 | 80 | 0.010 | 9000 |
| UPB453215T-900Y-N | 100 | 90 | 0.015 | 6000 |
| UPB453215T-121Y-N | 100 | 120 | 0.020 | 6000 |
| UPB453215T-151Y-N | 100 | 150 | 0.020 | 6000 |

Test Instruments : HP4291A Impedance / Material Analyzer



Products in R&D performance improvement.
 All specifications are subject to change without notice.
 Please contact with our salesman for latest information

