

## Multilayer Ferrite Chip Beads

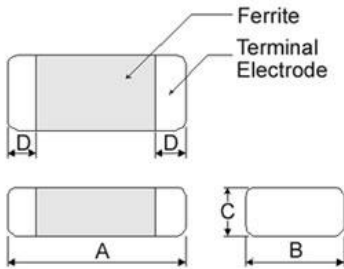


Chilisin offers a wide range of multi-layered ferrite chip beads with various sizes, frequency characteristics, and impedance values for EMI solutions. These ferrite formulas are used to compose seven types of EMI suppression chip beads: BBSY, BBBK, BBSJ, BBGK, BBPY, BBUP, BBNQ, BBFY, BBFJ and BBHV series.

### Product Identification



### Shape and Dimensions



Dimensions in mm

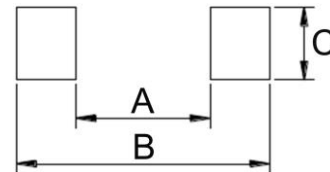
| TYPE    | A        | B         | C        | D         |
|---------|----------|-----------|----------|-----------|
| ①060303 | 0.6±0.03 | 0.30±0.03 | 0.3±0.03 | 0.15±0.05 |
| ②100505 | 1.0±0.10 | 0.50±0.10 | 0.5±0.10 | 0.25±0.10 |
| ③160805 | 1.6±0.15 | 0.80±0.15 | 0.5±0.15 | 0.3±0.2   |
| ④160808 | 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<br>(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 – BBPY Series

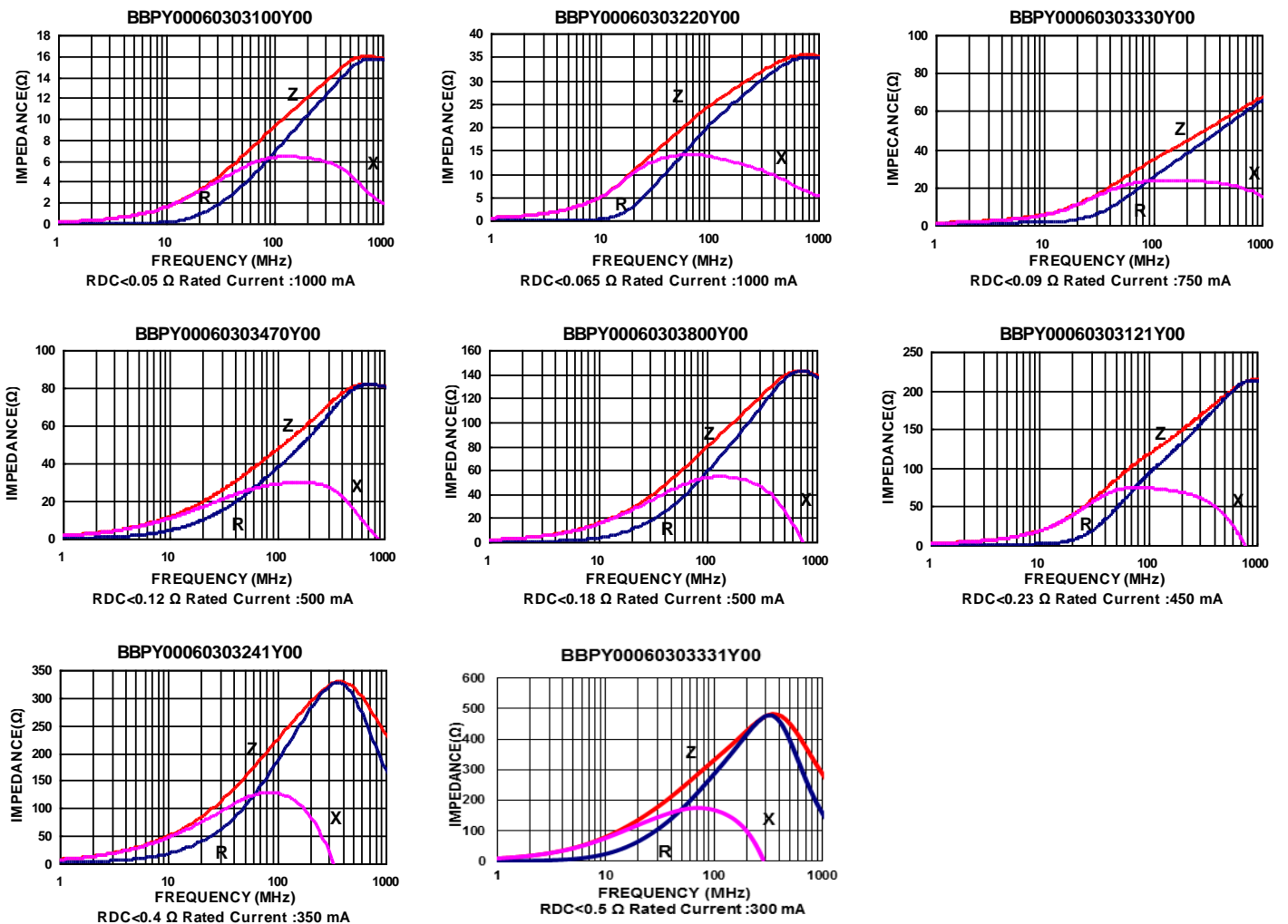
## Electrical Characteristics

| Part Number        | Impedance<br>( $\Omega \pm 25\%$ ) | Test Frequency<br>(MHz) | RDC<br>( $\Omega$ ) Max | Rated current<br>(mA) Max |
|--------------------|------------------------------------|-------------------------|-------------------------|---------------------------|
| BBPY00060303100Y00 | 10                                 | 100                     | 0.050                   | 1000                      |
| BBPY00060303220Y00 | 22                                 | 100                     | 0.065                   | 1000                      |
| BBPY00060303330Y00 | 33                                 | 100                     | 0.090                   | 750                       |
| BBPY00060303470Y00 | 47                                 | 100                     | 0.120                   | 500                       |
| BBPY00060303800Y00 | 80                                 | 100                     | 0.180                   | 500                       |
| BBPY00060303121Y00 | 120                                | 100                     | 0.230                   | 450                       |
| BBPY00060303241Y00 | 240                                | 100                     | 0.400                   | 350                       |
| BBPY00060303331Y00 | 330                                | 100                     | 0.500                   | 300                       |

**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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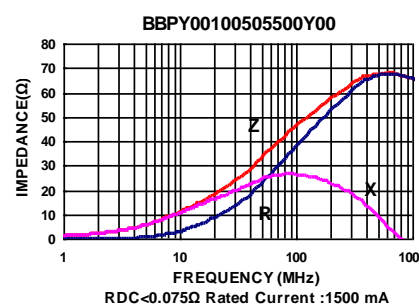
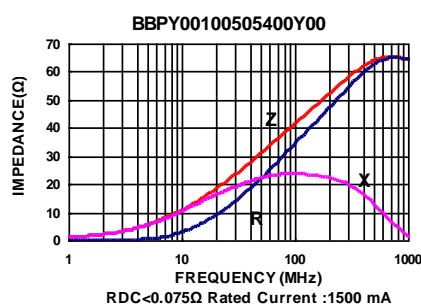
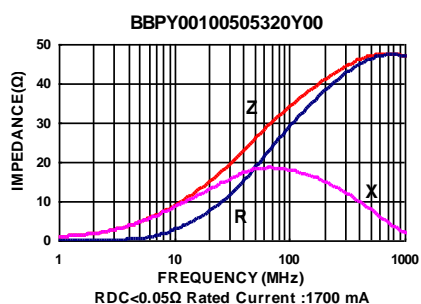
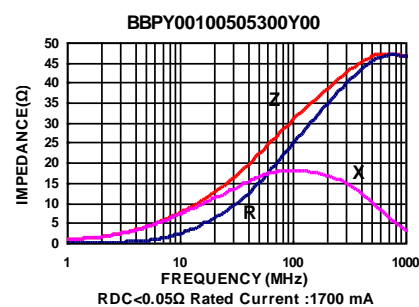
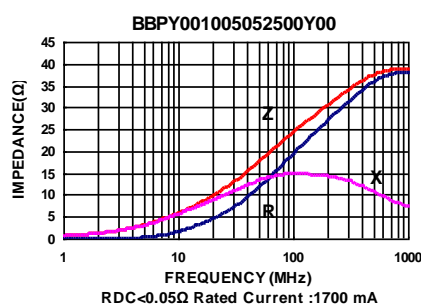
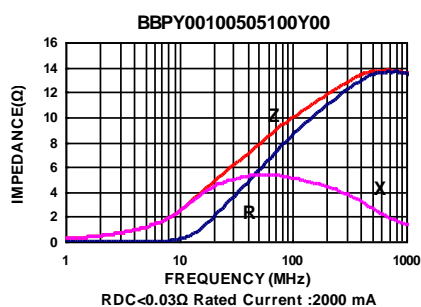
## Electrical Characteristics

| Part Number        | Impedance<br>( $\Omega \pm 25\%$ ) | Test Frequency<br>(MHz) | RDC<br>( $\Omega$ ) Max | Rated current<br>(mA) Max |
|--------------------|------------------------------------|-------------------------|-------------------------|---------------------------|
| BBPY00100505100Y00 | 10                                 | 100                     | 0.03                    | 2000                      |
| BBPY00100505250Y00 | 25                                 | 100                     | 0.05                    | 1700                      |
| BBPY00100505300Y00 | 30                                 | 100                     | 0.05                    | 1700                      |
| BBPY00100505320Y00 | 32                                 | 100                     | 0.05                    | 1700                      |
| BBPY00100505400Y00 | 40                                 | 100                     | 0.075                   | 1500                      |
| BBPY00100505500Y00 | 50                                 | 100                     | 0.075                   | 1500                      |
| BBPY00100505600Y00 | 60                                 | 100                     | 0.075                   | 1500                      |
| BBPY00100505680Y00 | 68                                 | 100                     | 0.09                    | 1200                      |
| BBPY00100505700Y00 | 70                                 | 100                     | 0.09                    | 1200                      |
| BBPY00100505800Y00 | 80                                 | 100                     | 0.09                    | 1200                      |
| BBPY00100505101Y00 | 100                                | 100                     | 0.09                    | 1200                      |
| BBPY00100505121Y00 | 120                                | 100                     | 0.09                    | 1400                      |
| BBPY00100505151Y00 | 150                                | 100                     | 0.14                    | 1400                      |
| BBPY00100505181Y00 | 180                                | 100                     | 0.14                    | 900                       |
| BBPY00100505221Y00 | 220                                | 100                     | 0.18                    | 1100                      |
| BBPY00100505601Y00 | 600                                | 100                     | 0.34                    | 700                       |
| BBPY00100505102Y00 | 1000                               | 100                     | 0.49                    | 500                       |

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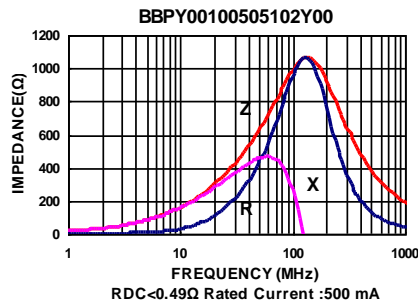
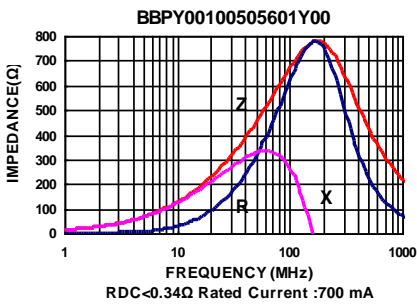
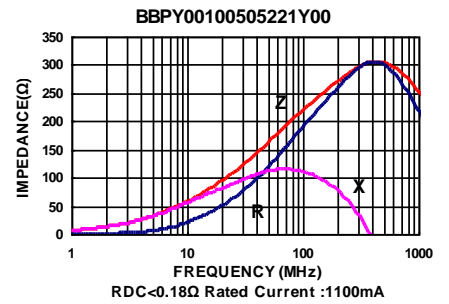
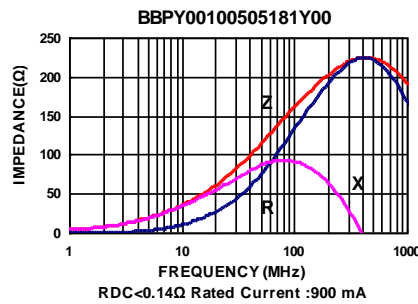
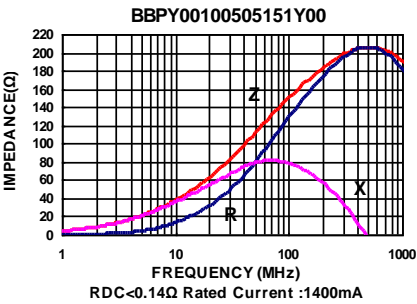
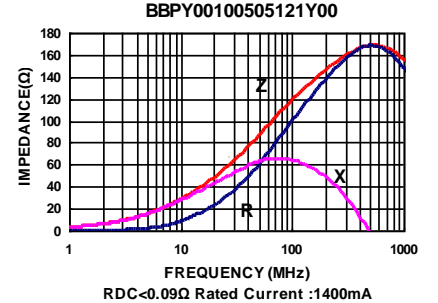
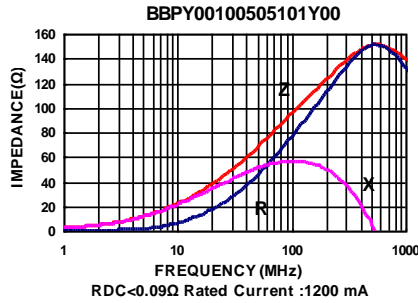
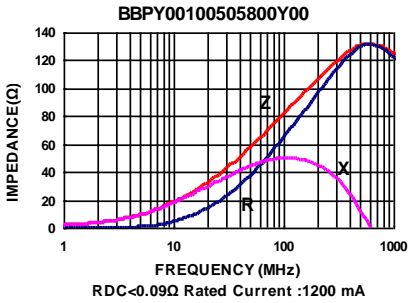
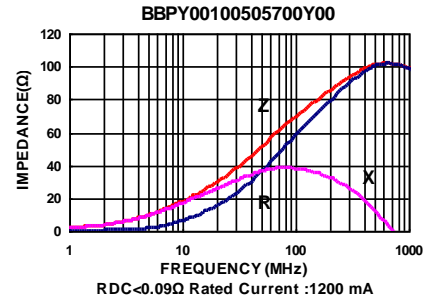
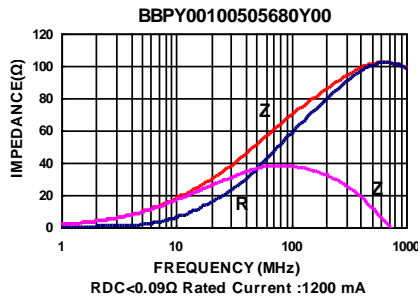
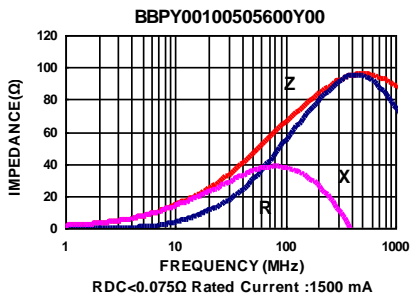
## Test Instruments : Agilent E4991A Impedance / Material Analyzer



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# SMD Multilayer Ferrite Chip Beads – BBPY Series

Test Instruments : Agilent E4991A Impedance / Material Analyzer



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## SMD Multilayer Ferrite Chip Beads – BBPY Series

### Electrical Characteristics

| Part Number        | Impedance<br>( $\Omega \pm 25\%$ ) | Test Frequency<br>(MHz) | RDC<br>( $\Omega$ ) Max | Rated current<br>(mA) Max |
|--------------------|------------------------------------|-------------------------|-------------------------|---------------------------|
| BBPY00160808100Y00 | 10                                 | 100                     | 0.020                   | 4000                      |
| BBPY00160808110Y00 | 11                                 | 100                     | 0.020                   | 4000                      |
| BBPY00160808190Y00 | 19                                 | 100                     | 0.03                    | 3000                      |
| BBPY00160808220Y00 | 22                                 | 100                     | 0.030                   | 3000                      |
| BBPY00160808250Y00 | 25                                 | 100                     | 0.03                    | 3000                      |
| BBPY00160808260Y00 | 26                                 | 100                     | 0.03                    | 3000                      |
| BBPY00160808300Y00 | 30                                 | 100                     | 0.030                   | 3000                      |
| BBPY00160808330Y00 | 33                                 | 100                     | 0.035                   | 3000                      |
| BBPY00160808400Y00 | 40                                 | 100                     | 0.035                   | 3000                      |
| BBPY00160808470Y00 | 47                                 | 100                     | 0.04                    | 3000                      |
| BBPY00160808500Y00 | 50                                 | 100                     | 0.04                    | 3000                      |
| BBPY00160808600Y00 | 60                                 | 100                     | 0.040                   | 3000                      |
| BBPY00160808680Y00 | 68                                 | 100                     | 0.05                    | 2500                      |
| BBPY00160808700Y00 | 70                                 | 100                     | 0.05                    | 2500                      |
| BBPY00160808750Y00 | 75                                 | 100                     | 0.05                    | 2500                      |
| BBPY00160808800Y00 | 80                                 | 100                     | 0.050                   | 2500                      |
| BBPY00160808101Y00 | 100                                | 100                     | 0.050                   | 2500                      |
| BBPY00160808121Y00 | 120                                | 100                     | 0.080                   | 2500                      |
| BBPY00160808151Y00 | 150                                | 100                     | 0.085                   | 2000                      |
| BBPY00160808181Y00 | 180                                | 100                     | 0.090                   | 2000                      |
| BBPY00160808201Y00 | 200                                | 100                     | 0.095                   | 2000                      |
| BBPY00160808221Y00 | 220                                | 100                     | 0.100                   | 2000                      |
| BBPY00160808241Y00 | 240                                | 100                     | 0.12                    | 1500                      |
| BBPY00160808301Y00 | 300                                | 100                     | 0.120                   | 1500                      |
| BBPY00160808331Y00 | 330                                | 100                     | 0.120                   | 1500                      |
| BBPY00160808471Y00 | 470                                | 100                     | 0.150                   | 1500                      |
| BBPY00160808601Y00 | 600                                | 100                     | 0.200                   | 1000                      |
| BBPY00160808102Y00 | 1000                               | 100                     | 0.250                   | 800                       |
| BBPY00160808122Y00 | 1200                               | 100                     | 0.250                   | 800                       |
| BBPY00160808152Y00 | 1500                               | 100                     | 0.400                   | 500                       |

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

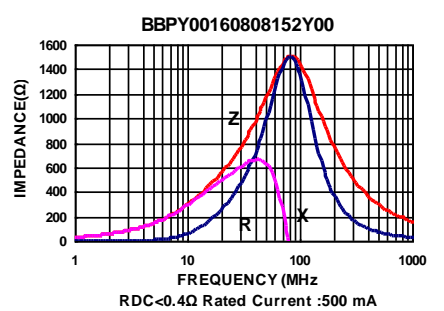
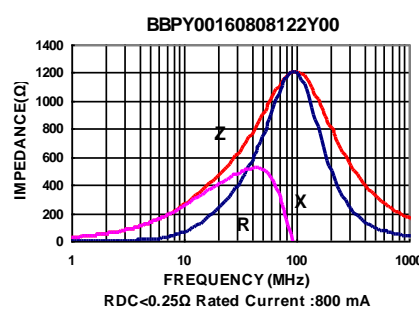
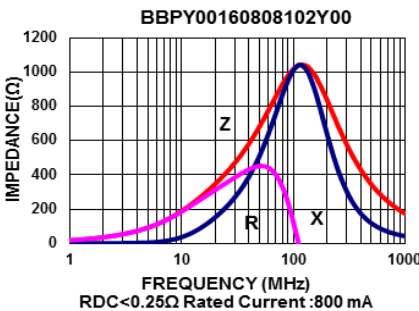
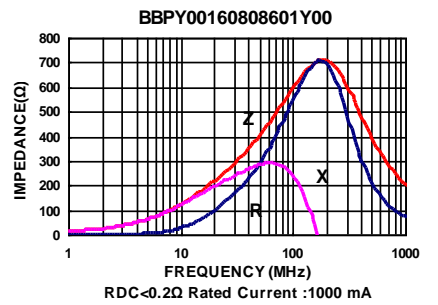
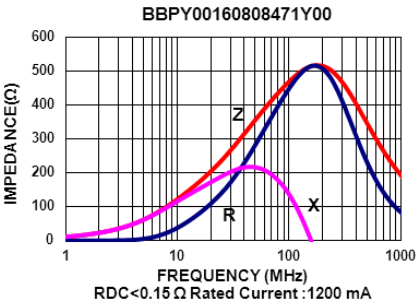
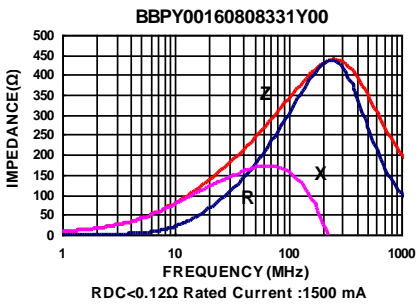
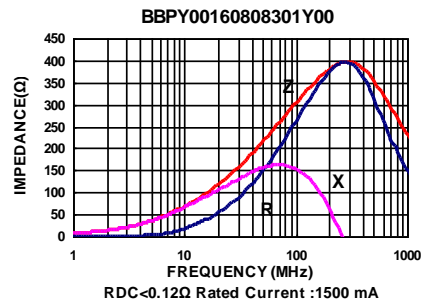
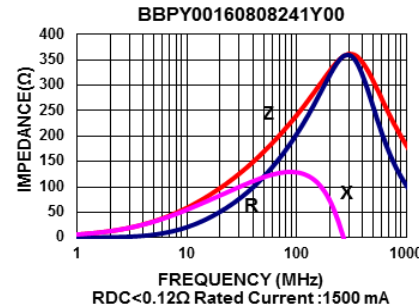
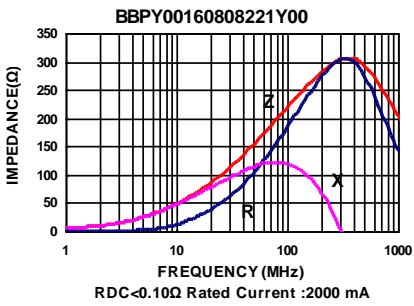
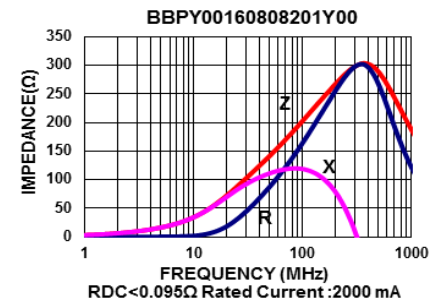
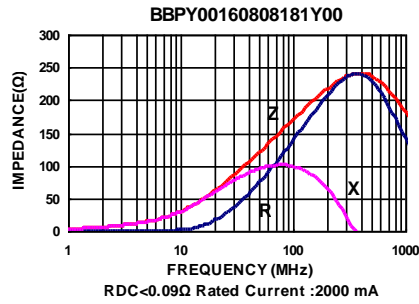
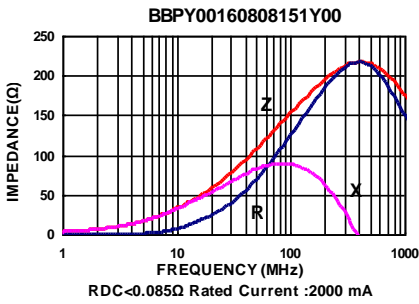
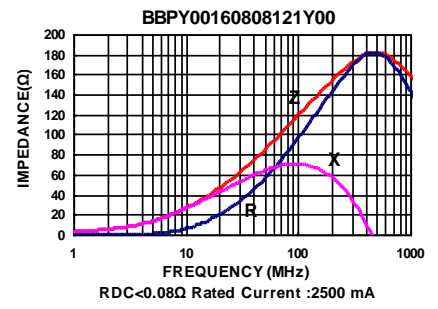
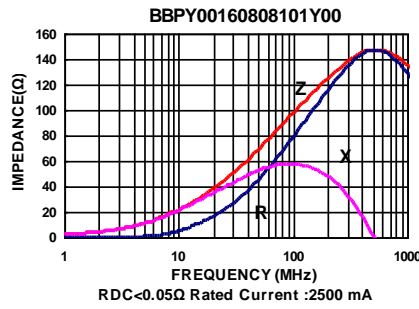
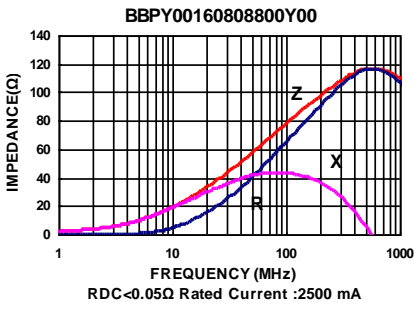
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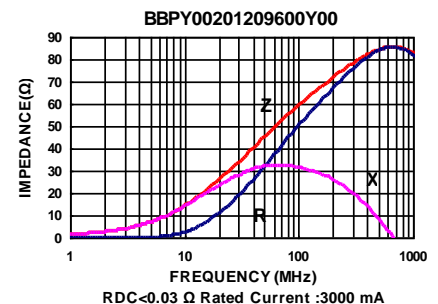
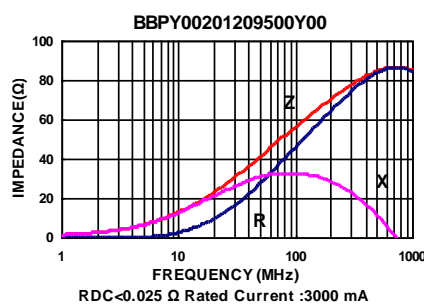
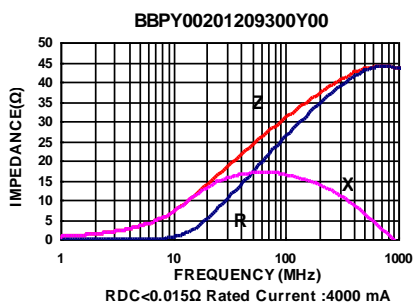
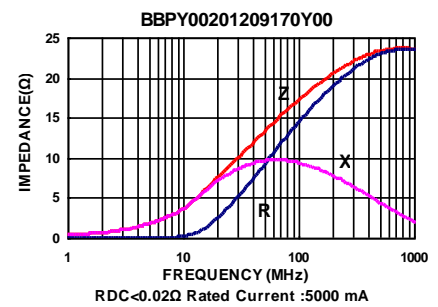
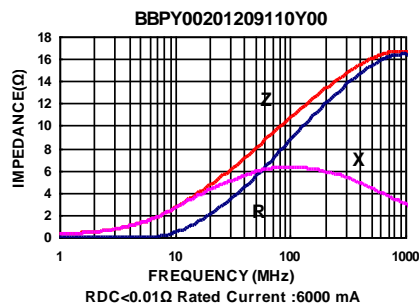
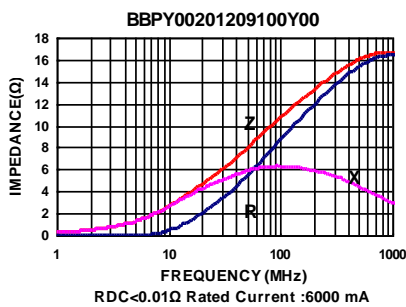
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|--------------------|------------------------------------|-------------------------|-------------------------|---------------------------|
| BBPY00201209100Y00 | 10                                 | 100                     | 0.01                    | 6000                      |
| BBPY00201209110Y00 | 11                                 | 100                     | 0.01                    | 6000                      |
| BBPY00201209170Y00 | 17                                 | 100                     | 0.02                    | 5000                      |
| BBPY00201209300Y00 | 30                                 | 100                     | 0.015                   | 4000                      |
| BBPY00201209500Y00 | 50                                 | 100                     | 0.025                   | 3000                      |
| BBPY00201209600Y00 | 60                                 | 100                     | 0.03                    | 3000                      |
| BBPY00201209700Y00 | 70                                 | 100                     | 0.04                    | 3000                      |
| BBPY00201209800Y00 | 80                                 | 100                     | 0.04                    | 3000                      |
| BBPY00201209101Y00 | 100                                | 100                     | 0.04                    | 3000                      |
| BBPY00201209121Y00 | 120                                | 100                     | 0.04                    | 3000                      |
| BBPY00201209221Y00 | 220                                | 100                     | 0.08                    | 2000                      |
| BBPY00201209301Y00 | 300                                | 100                     | 0.08                    | 2000                      |
| BBPY00201209331Y00 | 330                                | 100                     | 0.08                    | 2000                      |
| BBPY00201209471Y00 | 470                                | 100                     | 0.10                    | 2000                      |
| BBPY00201209601Y00 | 600                                | 100                     | 0.10                    | 2000                      |
| BBPY00201209102Y00 | 1000                               | 100                     | 0.12                    | 1500                      |
| BBPY00201209152Y00 | 1500                               | 100                     | 0.30                    | 1000                      |

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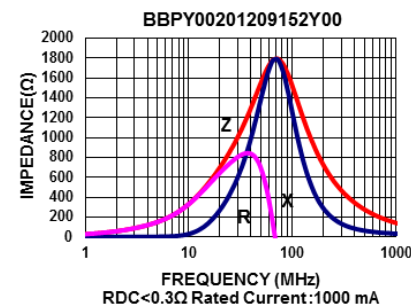
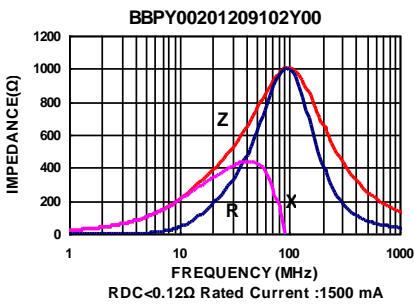
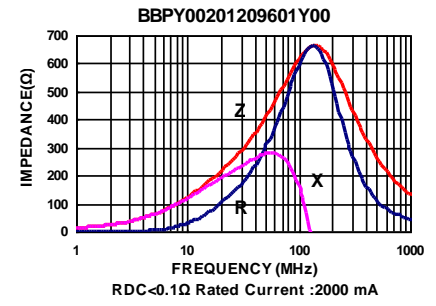
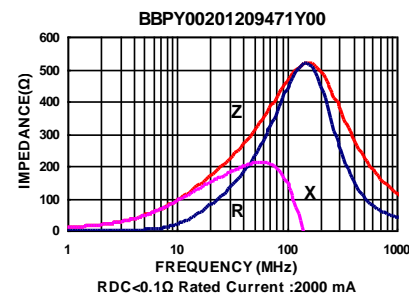
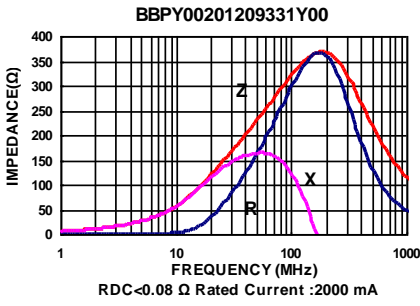
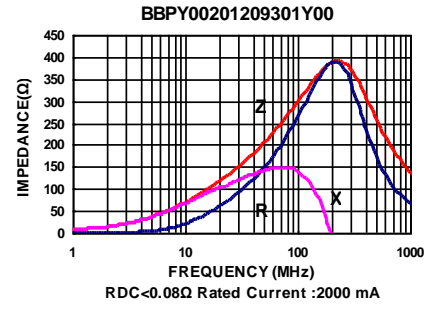
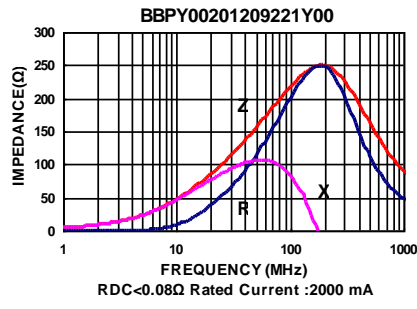
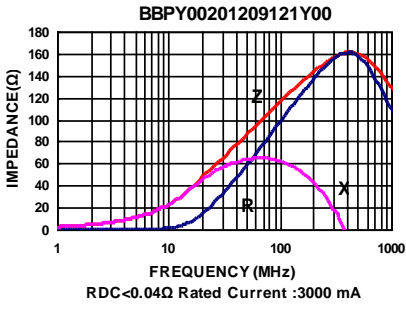
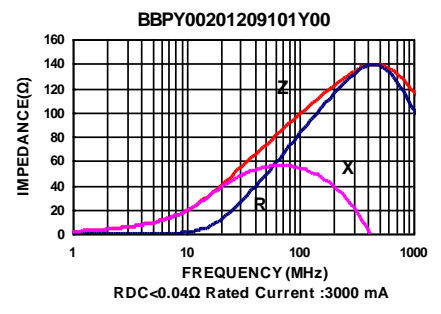
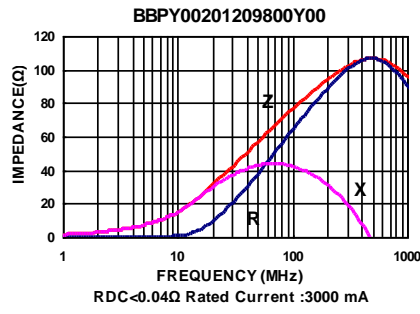
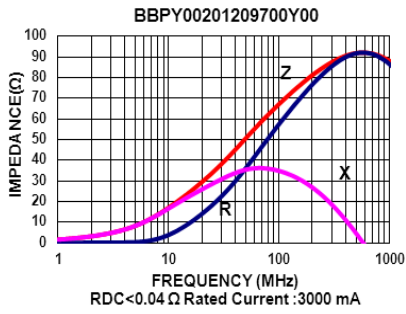


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# SMD Multilayer Ferrite Chip Beads – BBPY Series

Test Instruments : Agilent E4991A Impedance / Material Analyzer



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## SMD Multilayer Ferrite Chip Beads – BBPY Series

### Electrical Characteristics

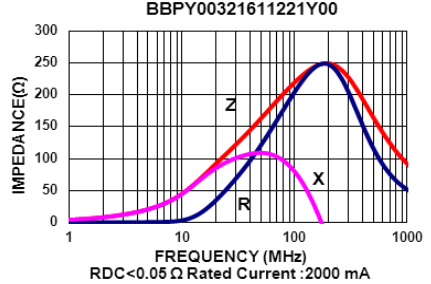
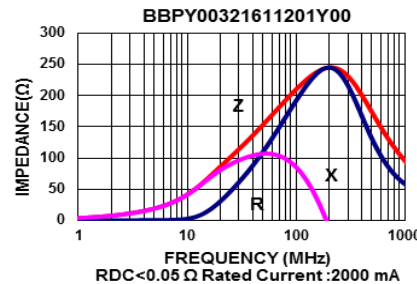
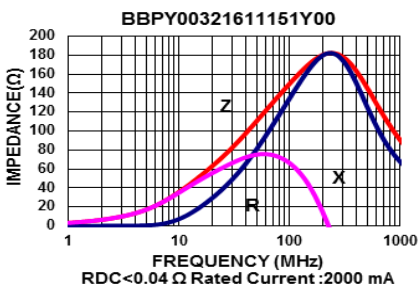
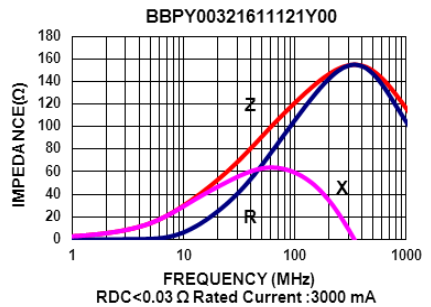
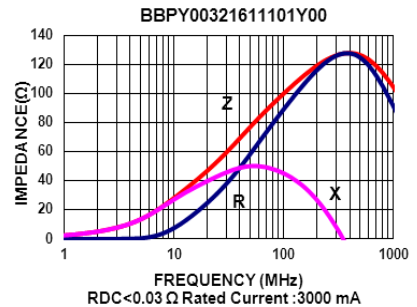
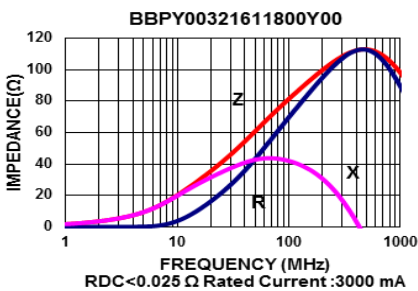
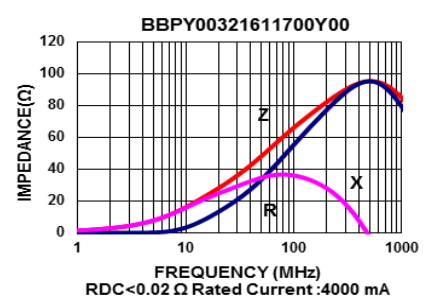
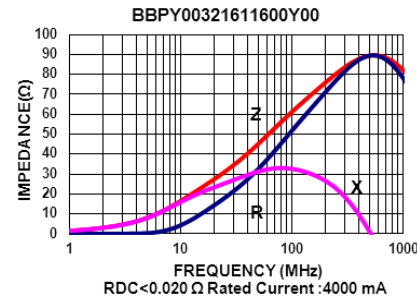
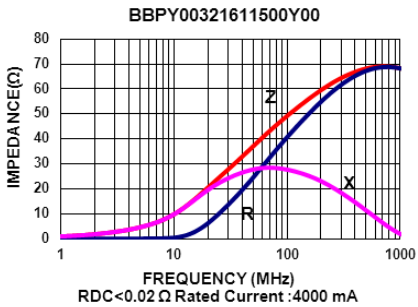
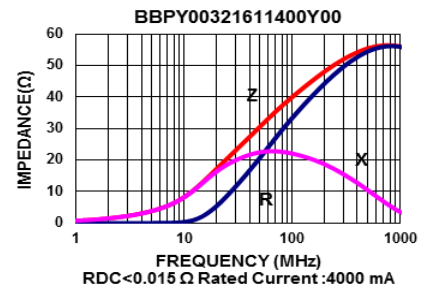
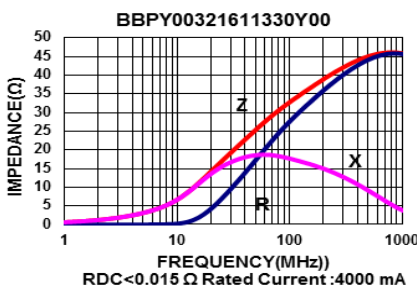
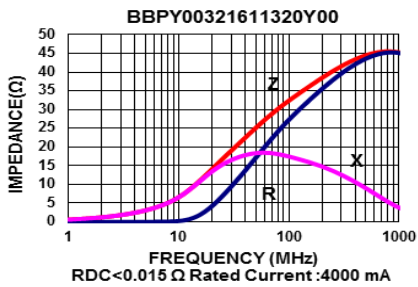
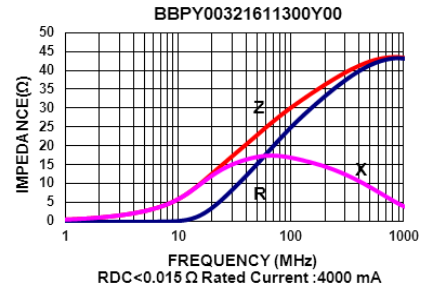
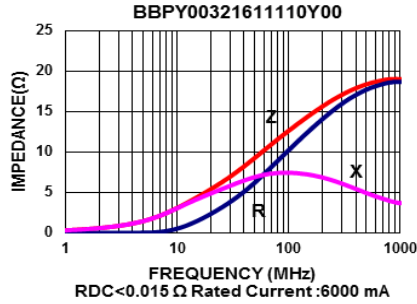
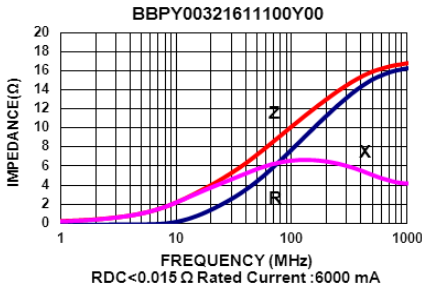
| Part Number        | Impedance<br>( $\Omega \pm 25\%$ ) | Test Frequency<br>(MHz) | RDC<br>( $\Omega$ ) Max | Rated current<br>(mA) Max |
|--------------------|------------------------------------|-------------------------|-------------------------|---------------------------|
| BBPY00321611100Y00 | 10                                 | 100                     | 0.015                   | 6000                      |
| BBPY00321611110Y00 | 11                                 | 100                     | 0.015                   | 6000                      |
| BBPY00321611300Y00 | 30                                 | 100                     | 0.015                   | 4000                      |
| BBPY00321611320Y00 | 32                                 | 100                     | 0.015                   | 4000                      |
| BBPY00321611330Y00 | 33                                 | 100                     | 0.015                   | 4000                      |
| BBPY00321611400Y00 | 40                                 | 100                     | 0.015                   | 4000                      |
| BBPY00321611500Y00 | 50                                 | 100                     | 0.02                    | 4000                      |
| BBPY00321611600Y00 | 60                                 | 100                     | 0.02                    | 4000                      |
| BBPY00321611700Y00 | 70                                 | 100                     | 0.02                    | 4000                      |
| BBPY00321611800Y00 | 80                                 | 100                     | 0.025                   | 3000                      |
| BBPY00321611101Y00 | 100                                | 100                     | 0.03                    | 3000                      |
| BBPY00321611121Y00 | 120                                | 100                     | 0.03                    | 3000                      |
| BBPY00321611151Y00 | 150                                | 100                     | 0.04                    | 2000                      |
| BBPY00321611201Y00 | 200                                | 100                     | 0.05                    | 2000                      |
| BBPY00321611221Y00 | 220                                | 100                     | 0.05                    | 2000                      |
| BBPY00321611301Y00 | 300                                | 100                     | 0.06                    | 2000                      |
| BBPY00321611331Y00 | 330                                | 100                     | 0.06                    | 2000                      |
| BBPY00321611391Y00 | 390                                | 100                     | 0.06                    | 2000                      |
| BBPY00321611401Y00 | 400                                | 100                     | 0.1                     | 2000                      |
| BBPY00321611471Y00 | 470                                | 100                     | 0.1                     | 2000                      |
| BBPY00321611501Y00 | 500                                | 100                     | 0.1                     | 2000                      |
| BBPY00321611601Y00 | 600                                | 100                     | 0.1                     | 2000                      |
| BBPY00321611102Y00 | 1000                               | 50                      | 0.15                    | 1200                      |
| BBPY00321611122Y00 | 1200                               | 50                      | 0.18                    | 1000                      |
| BBPY00321611152Y00 | 1500                               | 50                      | 0.2                     | 800                       |

**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 – BBPY Series

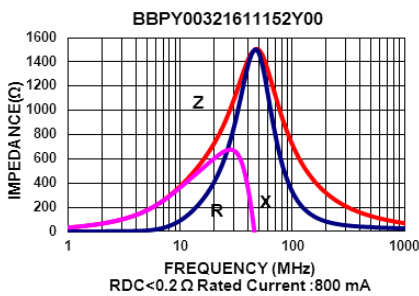
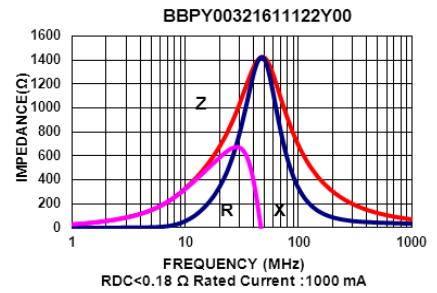
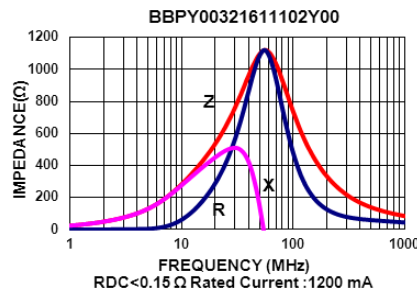
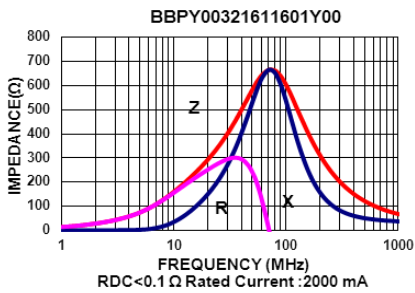
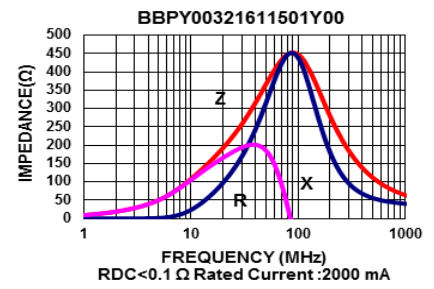
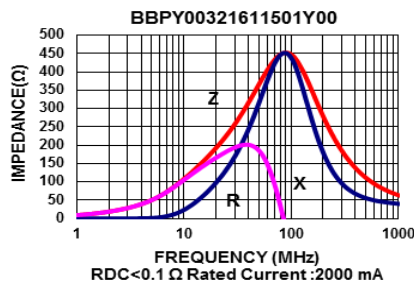
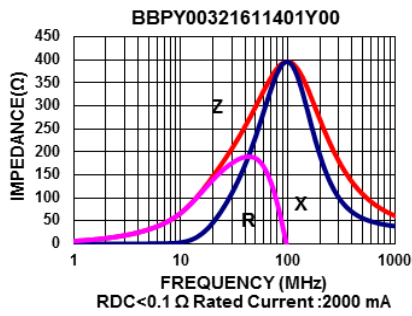
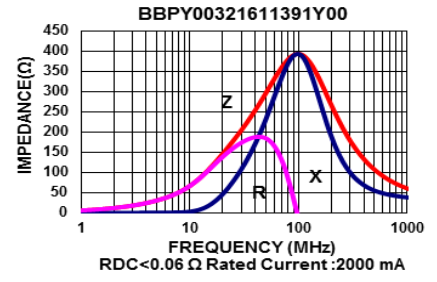
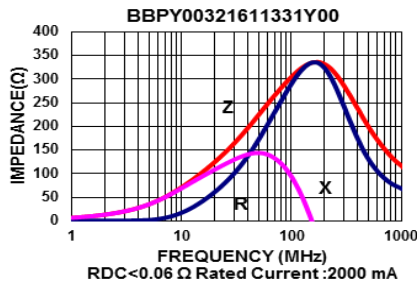
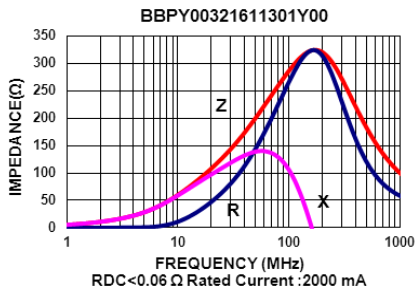
Test Instruments : Agilent E4991A Impedance / Material Analyzer



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# SMD Multilayer Ferrite Chip Beads – BBPY Series

Test Instruments : Agilent E4991A Impedance / Material Analyzer



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# SMD Multilayer Ferrite Chip Beads – BBPY Series

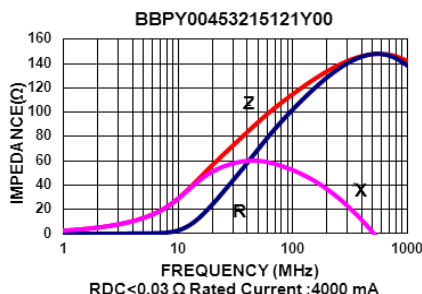
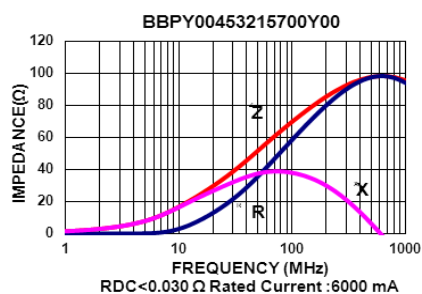
## Electrical Characteristics

| Part Number        | Impedance<br>( $\Omega \pm 25\%$ ) | Test Frequency<br>(MHz) | DC Resistance<br>( $\Omega$ ) Max | Rated current<br>(mA) Max |
|--------------------|------------------------------------|-------------------------|-----------------------------------|---------------------------|
| BBPY00453215700Y00 | 70                                 | 100                     | 0.030                             | 6000                      |
| BBPY00453215121Y00 | 120                                | 100                     | 0.030                             | 4000                      |

**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

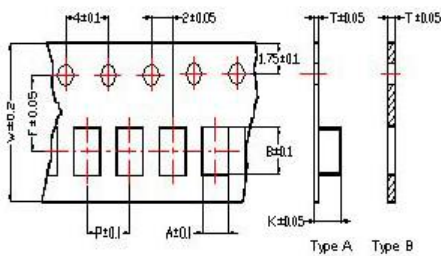
**Test Instruments :** Agilent E4991A Impedance / Material Analyzer



# SMD Multilayer Ferrite Chip Beads

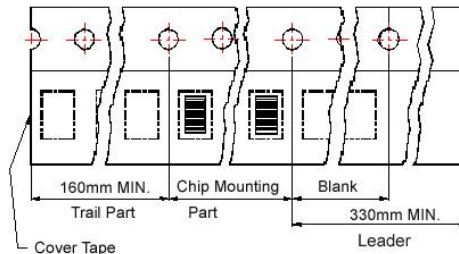
## Packaging Specifications

### Tape Dimensions

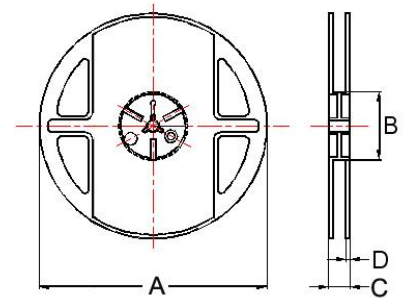


### Tape Material

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<br>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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