

# Chip Bead

ABPY Series ISO9001 | ISO14001 | IATF16949



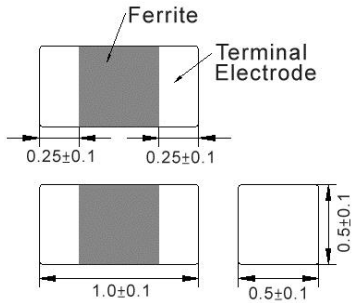
## ■ Part Numbering

| A     | BPY         | 00           | 100505               | 300           | Y         | 00            |
|-------|-------------|--------------|----------------------|---------------|-----------|---------------|
| Grade | Series Name | Control Code | Dimensions Code (mm) | Impedance (Ω) | Tolerance | Internal Code |
|       |             |              | 100505 1.0x0.5x0.5   | 300 30        | Y ±25%    |               |
|       |             |              | 160808 1.6x0.8x0.8   | 121 120       |           |               |
|       |             |              | 201209 2.0x1.25x0.9  | 102 1000      |           |               |
|       |             |              | 321611 3.2x1.6x1.1   |               |           |               |

This specification applies to Multilayer Chip ferrite Bead for Automotive Electronics based on AEC-Q200 except for Power train and Safety.

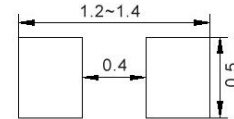
## ABPY00100505 Type

### ■ Dimensions



unit:mm

### ■ Recommended Land Pattern



unit:mm

### ■ Electrical Characteristics

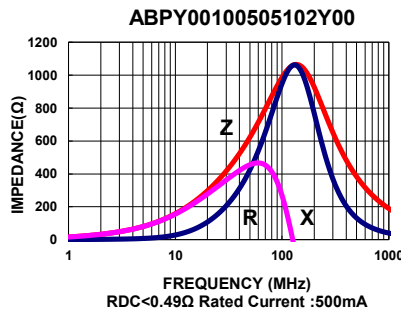
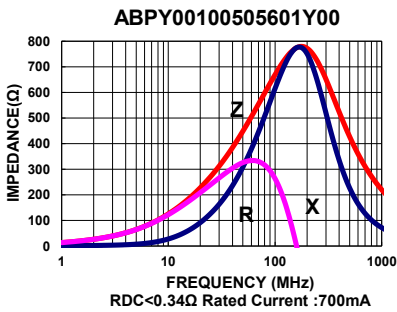
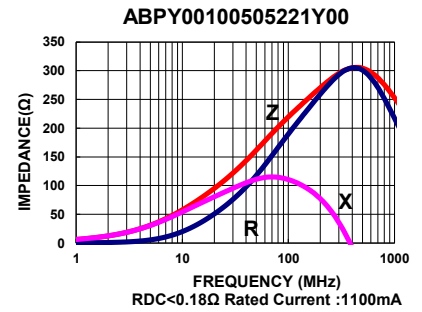
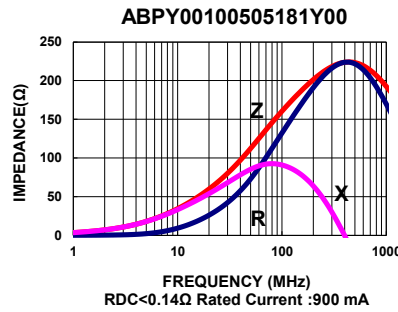
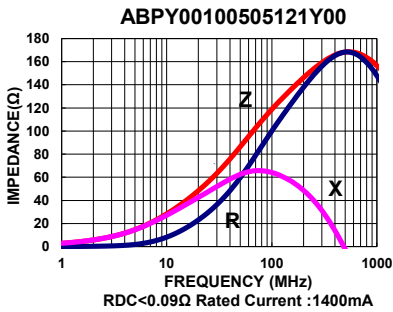
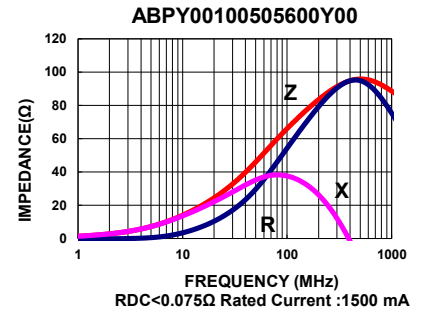
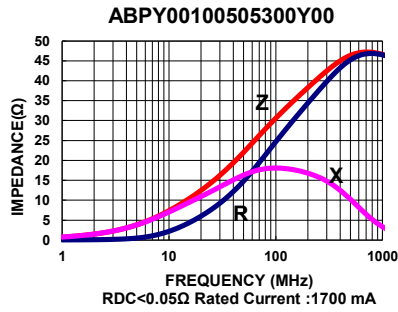
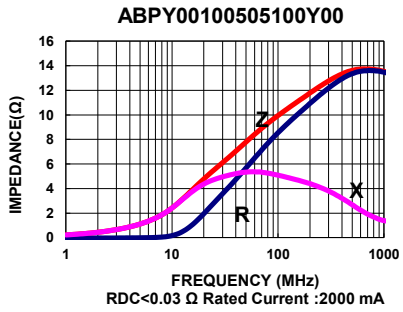
| Part No.           | Impedance<br>( $\Omega$ ) | Test Freq.     | RDC<br>( $\Omega$ )Max. | Rated Current<br>(mA)Max. |
|--------------------|---------------------------|----------------|-------------------------|---------------------------|
| ABPY00100505100Y00 | 10                        | 100 MHz,200 mV | 0.030                   | 2000                      |
| ABPY00100505300Y00 | 30                        | 100 MHz,200 mV | 0.050                   | 1700                      |
| ABPY00100505600Y00 | 60                        | 100 MHz,200 mV | 0.075                   | 1500                      |
| ABPY00100505121Y00 | 120                       | 100 MHz,200 mV | 0.090                   | 1400                      |
| ABPY00100505181Y00 | 180                       | 100 MHz,200 mV | 0.140                   | 900                       |
| ABPY00100505221Y00 | 220                       | 100 MHz,200 mV | 0.180                   | 1100                      |
| ABPY00100505601Y00 | 600                       | 100 MHz,200 mV | 0.340                   | 700                       |
| ABPY00100505102Y00 | 1000                      | 100 MHz,200 mV | 0.490                   | 500                       |

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

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

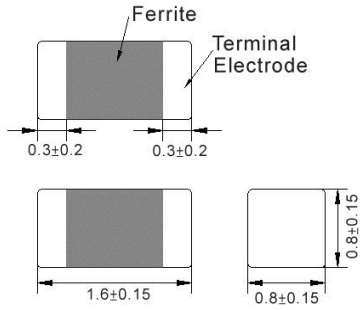
## ABPY00100505 Type

### Characteristics Graph



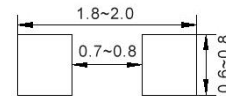
## ABPY00160808 Type

### ■ Dimensions



unit:mm

### ■ Recommended Land Pattern



unit:mm

### ■ Electrical Characteristics

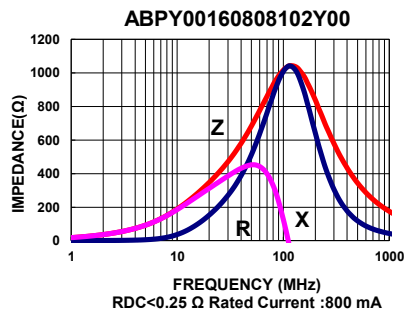
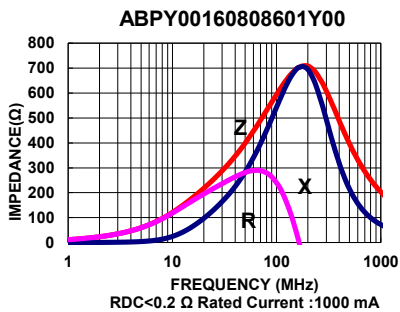
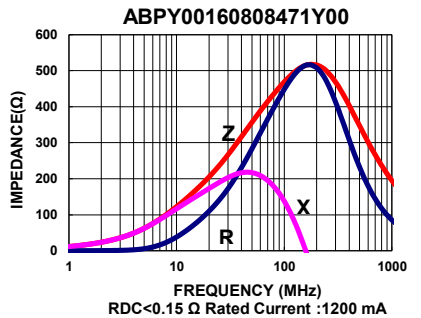
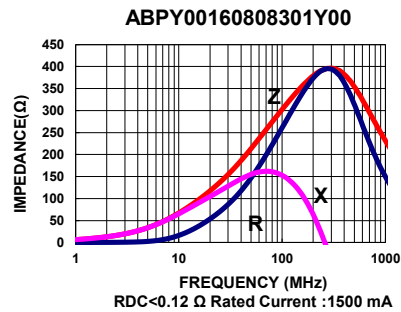
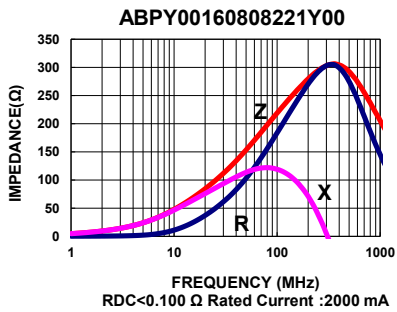
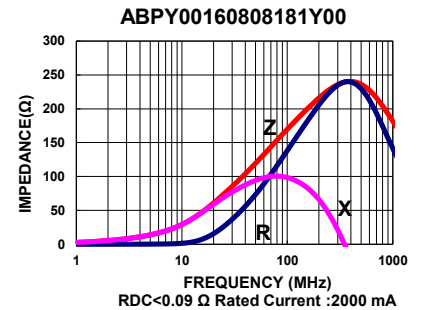
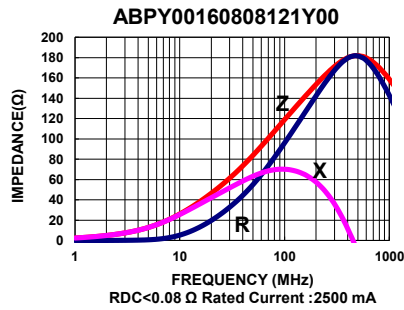
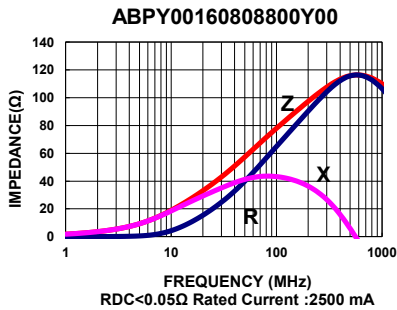
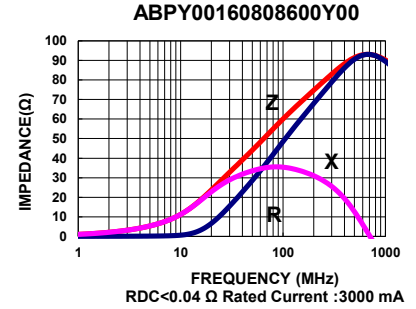
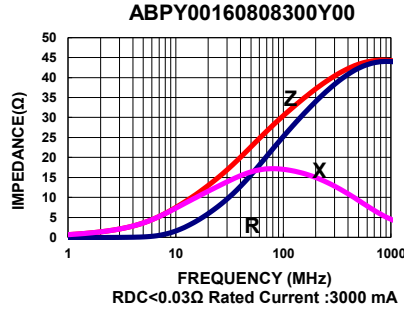
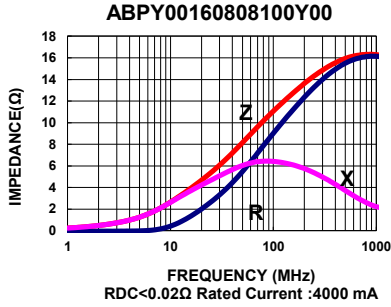
| Part No.           | Impedance<br>(Ω) | Test Freq.      | RDC<br>(Ω)Max. | Rated Current<br>(mA)Max. |
|--------------------|------------------|-----------------|----------------|---------------------------|
| ABPY00160808100Y00 | 10               | 100 MHz, 200 mV | 0.020          | 4000                      |
| ABPY00160808300Y00 | 30               | 100 MHz, 200 mV | 0.030          | 3000                      |
| ABPY00160808600Y00 | 60               | 100 MHz, 200 mV | 0.040          | 3000                      |
| ABPY00160808800Y00 | 80               | 100 MHz, 200 mV | 0.050          | 2500                      |
| ABPY00160808121Y00 | 120              | 100 MHz, 200 mV | 0.080          | 2500                      |
| ABPY00160808181Y00 | 180              | 100 MHz, 200 mV | 0.090          | 2000                      |
| ABPY00160808221Y00 | 220              | 100 MHz, 200 mV | 0.100          | 2000                      |
| ABPY00160808301Y00 | 300              | 100 MHz, 200 mV | 0.120          | 1500                      |
| ABPY00160808471Y00 | 470              | 100 MHz, 200 mV | 0.150          | 1500                      |
| ABPY00160808601Y00 | 600              | 100 MHz, 200 mV | 0.200          | 1000                      |
| ABPY00160808102Y00 | 1000             | 100 MHz, 200 mV | 0.250          | 800                       |

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

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

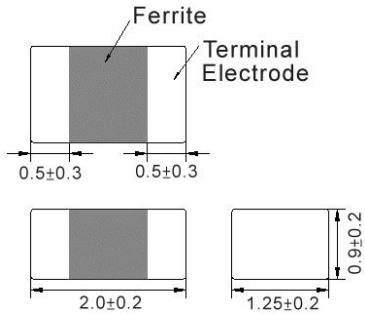
## ABPY00160808 Type

### Characteristics Graph



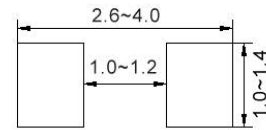
## ABPY00201209 Type

### Dimensions



unit:mm

### Recommended Land Pattern



unit:mm

### Electrical Characteristics

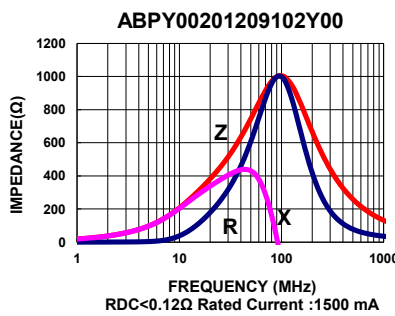
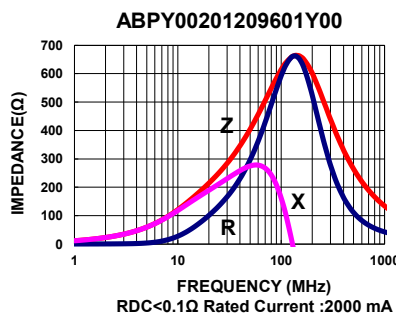
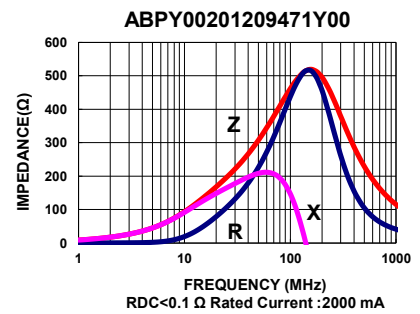
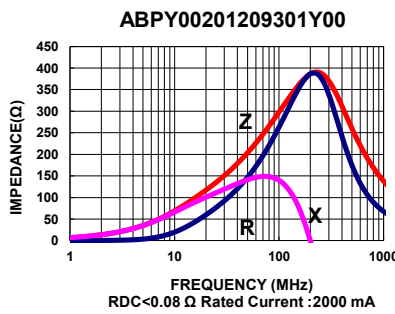
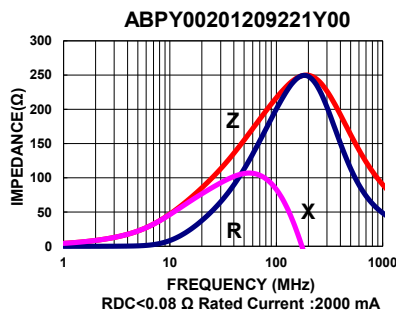
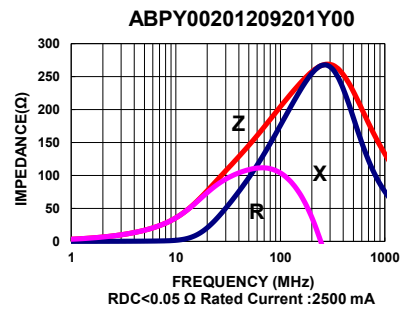
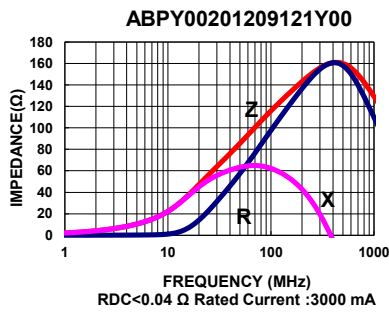
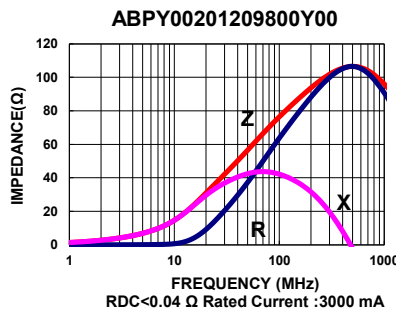
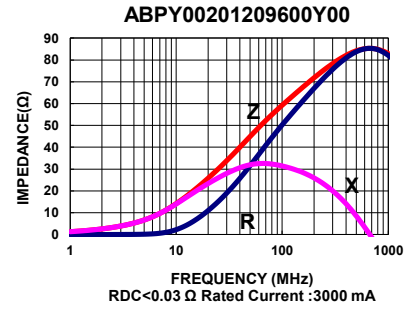
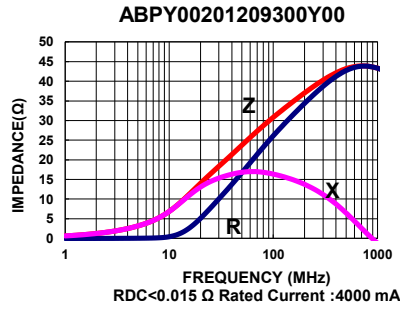
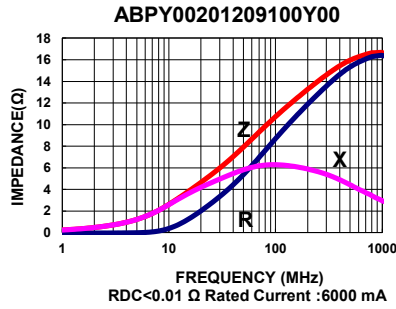
| Part No.           | Impedance<br>( $\Omega$ ) | Test Freq.     | RDC<br>( $\Omega$ )Max. | Rated Current<br>(mA)Max. |
|--------------------|---------------------------|----------------|-------------------------|---------------------------|
| ABPY00201209100Y00 | 10                        | 100 MHz,200 mV | 0.010                   | 6000                      |
| ABPY00201209300Y00 | 30                        | 100 MHz,200 mV | 0.015                   | 4000                      |
| ABPY00201209600Y00 | 60                        | 100 MHz,200 mV | 0.030                   | 3000                      |
| ABPY00201209800Y00 | 80                        | 100 MHz,200 mV | 0.040                   | 3000                      |
| ABPY00201209121Y00 | 120                       | 100 MHz,200 mV | 0.040                   | 3000                      |
| ABPY00201209201Y00 | 200                       | 100 MHz,200 mV | 0.050                   | 2500                      |
| ABPY00201209221Y00 | 220                       | 100 MHz,200 mV | 0.080                   | 2000                      |
| ABPY00201209301Y00 | 300                       | 100 MHz,200 mV | 0.080                   | 2000                      |
| ABPY00201209471Y00 | 470                       | 100 MHz,200 mV | 0.100                   | 2000                      |
| ABPY00201209601Y00 | 600                       | 100 MHz,200 mV | 0.100                   | 2000                      |
| ABPY00201209102Y00 | 1000                      | 100 MHz,200 mV | 0.120                   | 1500                      |

**Note: When ordering, please specify tolerance code. Tolerance: Y=±25% , T=±30%**

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

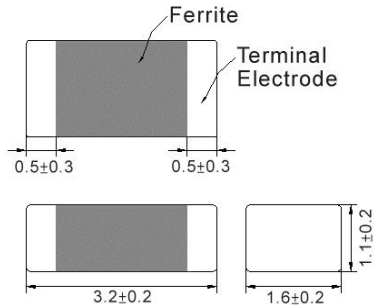
## ABPY00201209 Type

### Characteristics Graph



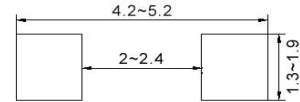
## ABPY00321611 Type

### ■ Dimensions



unit:mm

### ■ Recommended Land Pattern



unit:mm

### ■ Electrical Characteristics

| Part No.           | Impedance<br>( $\Omega$ ) | Test Freq.     | RDC<br>( $\Omega$ )Max. | Rated Current<br>(mA)Max. |
|--------------------|---------------------------|----------------|-------------------------|---------------------------|
| ABPY00321611300Y00 | 30                        | 100 MHz,200 mV | 0.015                   | 4000                      |
| ABPY00321611500Y00 | 50                        | 100 MHz,200 mV | 0.020                   | 4000                      |
| ABPY00321611600Y00 | 60                        | 100 MHz,200 mV | 0.020                   | 4000                      |
| ABPY00321611800Y00 | 80                        | 100 MHz,200 mV | 0.025                   | 3000                      |
| ABPY00321611101Y00 | 100                       | 100 MHz,200 mV | 0.030                   | 3000                      |
| ABPY00321611121Y00 | 120                       | 100 MHz,200 mV | 0.030                   | 3000                      |
| ABPY00321611221Y00 | 220                       | 100 MHz,200 mV | 0.050                   | 2000                      |
| ABPY00321611301Y00 | 300                       | 100 MHz,200 mV | 0.060                   | 2000                      |
| ABPY00321611391Y00 | 390                       | 100 MHz,200 mV | 0.060                   | 2000                      |
| ABPY00321611401Y00 | 400                       | 100 MHz,200 mV | 0.100                   | 2000                      |
| ABPY00321611471Y00 | 470                       | 100 MHz,200 mV | 0.100                   | 2000                      |
| ABPY00321611501Y00 | 500                       | 100 MHz,200 mV | 0.100                   | 2000                      |
| ABPY00321611601Y00 | 600                       | 100 MHz,200 mV | 0.100                   | 2000                      |
| ABPY00321611102Y00 | 1000                      | 100 MHz,200 mV | 0.150                   | 1200                      |

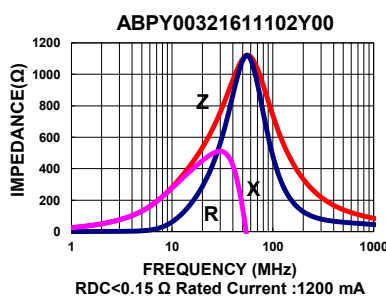
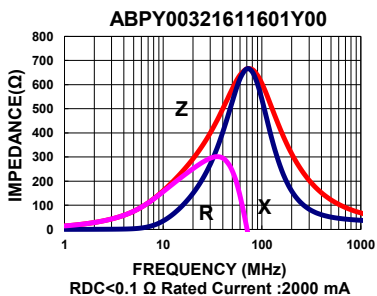
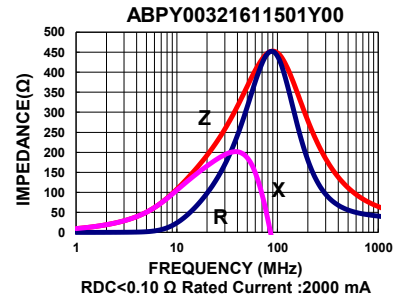
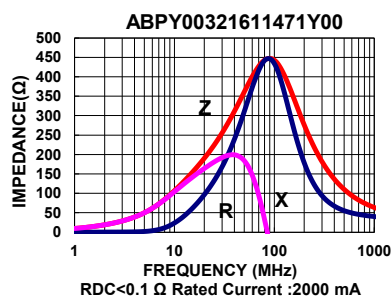
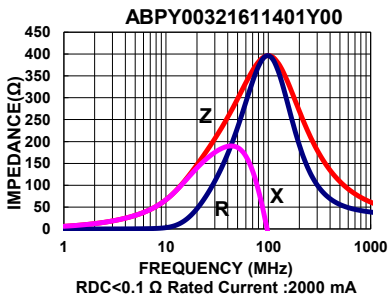
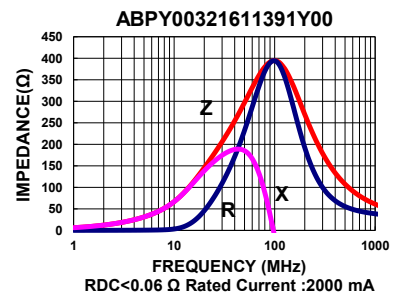
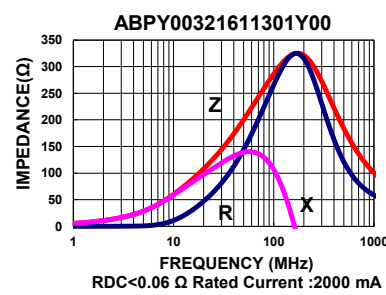
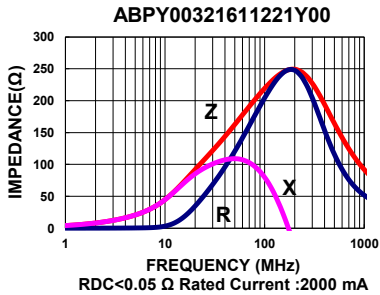
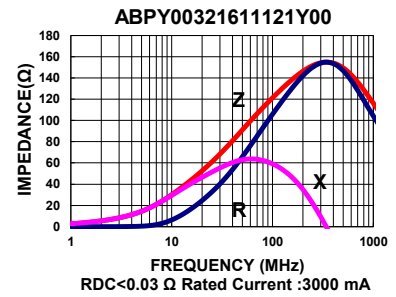
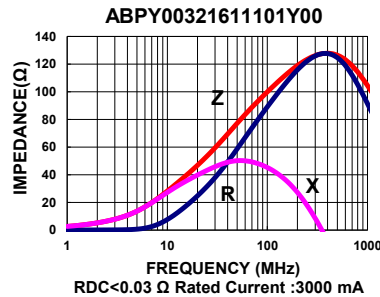
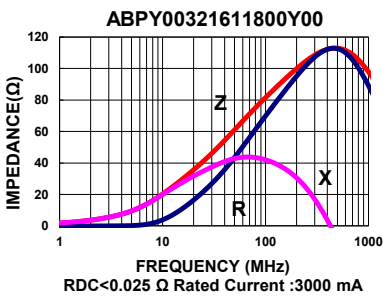
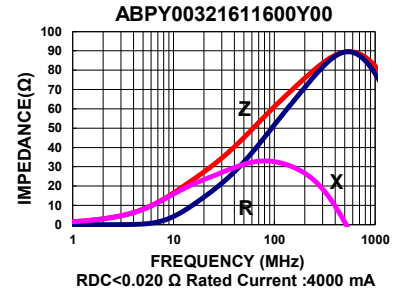
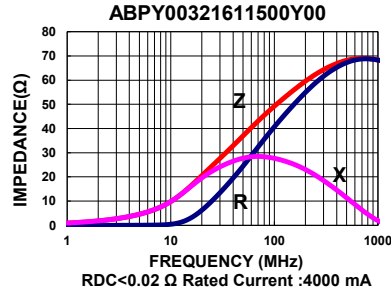
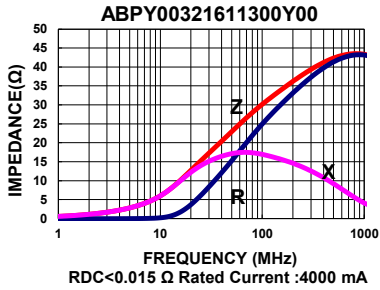
**Note: When ordering, please specify tolerance code. Tolerance: Y=±25%**

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



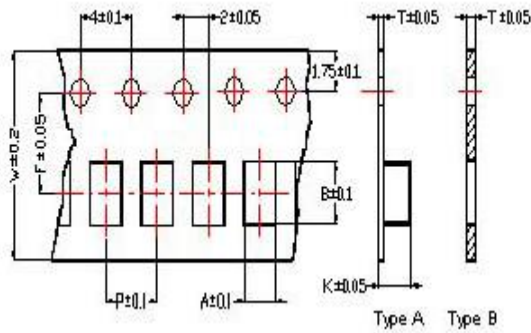
## ABPY00321611 Type

### Characteristics Graph



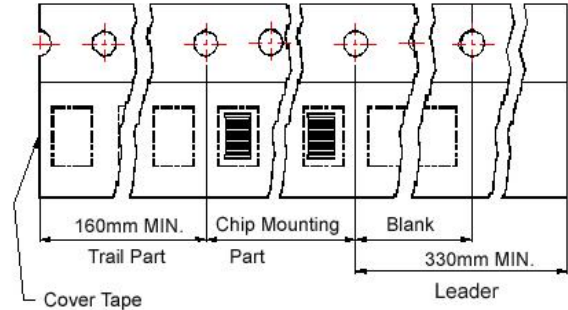
## ■ Packaging

### Tape Dimensions

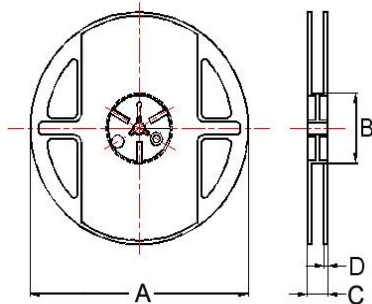


### Tape Material

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



### Reel Dimensions



### Dimensions in mm

| TYPE         | Tape Dimensions |      |      |   |   |     |      |      | Reel Dimensions |    |    |   | Quantity<br>PCS / Reel |
|--------------|-----------------|------|------|---|---|-----|------|------|-----------------|----|----|---|------------------------|
|              | A               | B    | T    | W | P | F   | K    | Tape | A               | B  | C  | D |                        |
| ABPY00100505 | 0.62            | 1.12 | 0.60 | 8 | 2 | 3.5 | -    | B    | 178             | 60 | 12 | 2 | 10000                  |
| ABPY00160808 | 1.05            | 1.85 | 0.95 | 8 | 4 | 3.5 | -    | B    | 178             | 60 | 12 | 2 | 4000                   |
| ABPY00201209 | 1.50            | 2.30 | 0.97 | 8 | 4 | 3.5 | -    | B    | 178             | 60 | 12 | 2 | 4000                   |
| ABPY00321611 | 1.88            | 3.50 | 0.22 | 8 | 4 | 3.5 | 1.27 | A    | 178             | 60 | 12 | 2 | 3000                   |

### For More Information:

Americas - [prodinfo\\_power\\_americas@yageo.com](mailto:prodinfo_power_americas@yageo.com) | Europe - [prodinfo\\_power\\_emea@yageo.com](mailto:prodinfo_power_emea@yageo.com) | Asia - [prodinfo\\_power\\_asia@yageo.com](mailto:prodinfo_power_asia@yageo.com)

Performance warranty of products offered on this data sheet is limited to the parameters specified. Data is subject to change without notice. Other brand and product names mentioned herein may be trademarks or registered trademarks of their respective owners. © Copyright, 2022. Pulse Electronics, Inc. All rights reserved.

## X-ON Electronics

Largest Supplier of Electrical and Electronic Components

*Click to view similar products for [Ferrite Beads](#) category:*

*Click to view products by [Chilisin](#) manufacturer:*

Other Similar products are found below :

[CZB1EGTTP700P](#) [CZB1JGTTD152P](#) [CZB2AFTTD800P](#) [CZB2AGTTD121P](#) [CZB2AGTTD601P](#) [CZB2BFTTE600P](#) [PE-0402FB121ST](#)  
[DER0705-2.2](#) [NCB0603R301TR050F](#) [NCB-H1206B680TR300F](#) [CZB1JGTTD221P](#) [CZB1JGTTD600P](#) [CZB2AGTTD301P](#)  
[CZB2BFTTE301P](#) [CZB2BFTTE601P](#) [4221R-1](#) [432703041971](#) [EMI0805R-600](#) [SBY100505T-100Y-N](#) [NCB-GH0402D121TR060F](#)  
[NCB0402P301TR005F](#) [NCB0603R152TR030F](#) [NCB0805A121TR050F](#) [NCB0805A301TR070F](#) [NCB3312K900TR500F](#) [NCB-](#)  
[H1206B101TR300F](#) [NCB0402P221TR030F](#) [NCB0805A102TR040F](#) [NCB-H0402P100TR200F](#) [NCB-H0603R121TR300F](#) [NCB-](#)  
[H0805A220TR600F](#) [NCB-H1206B601TR200F](#) [CZB1JGTTD202P](#) [CBH160808W221T](#) [EMI1206R-600](#) [WLBD1005HCU330TL](#)  
[WLBD2012HCU121TH](#) [WLBD2012HCU221TH](#) [WQBD1608HCU121TH](#) [WLBD1608K2U800TP](#) [74279230](#) [BMB2A0080AN4](#)  
[SZ1608F470TF](#) [FBSHC0805-331-302R](#) [HFJ100505T-601Y-N](#) [HFY100505T-221Y-N](#) [SBY060303T-121Y-N](#) [BBPY00160808301Y00](#)  
[SBY100505T-750Y-N](#) [BBPY00100505102Y00](#)