

**Chip Bead ABPY Series**

**Automotive  
AEC-Q200**

RoHS Compliant  
Halogen Free  
REACH Compliant



Noise  
Suppression

Shield

Multilayer

Ferrite

High  
Current

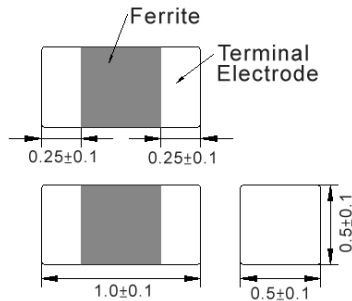
**Part Numbering**

| A     | BPY         | 00           | 100505                  | 300              | Y         | 00            |
|-------|-------------|--------------|-------------------------|------------------|-----------|---------------|
| Grade | Series Name | Control Code | Dimensions Code<br>(mm) | Impedance<br>(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.

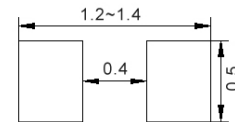
**ABPY00100505 Type**

**■ Dimensions**



unit:mm

**■ Recommended Land Pattern**



unit:mm

**■ Electrical Characteristics**

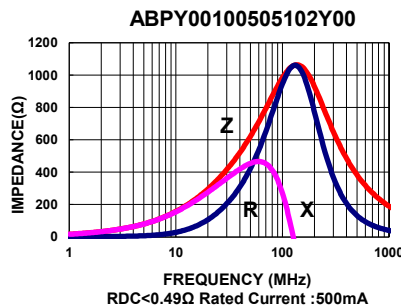
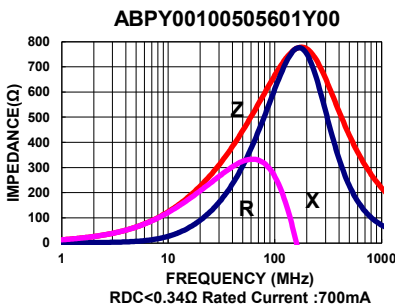
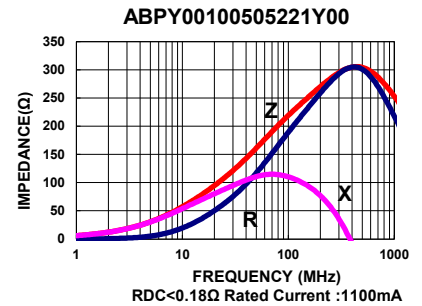
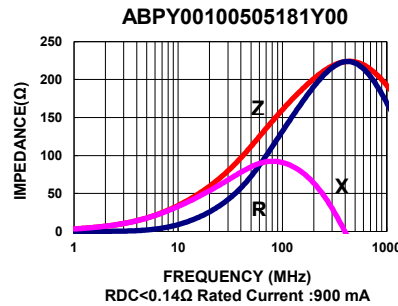
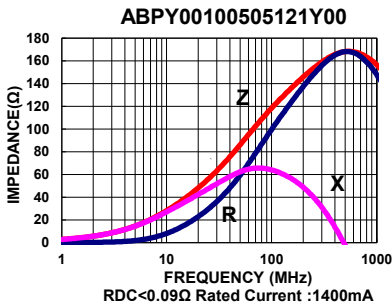
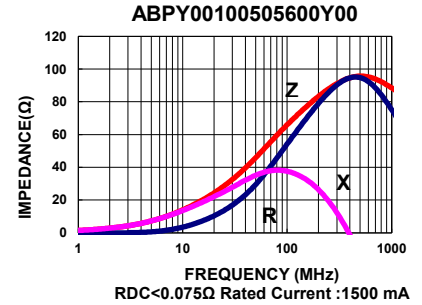
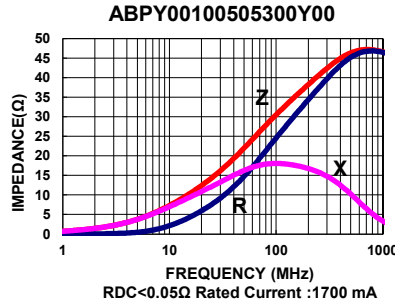
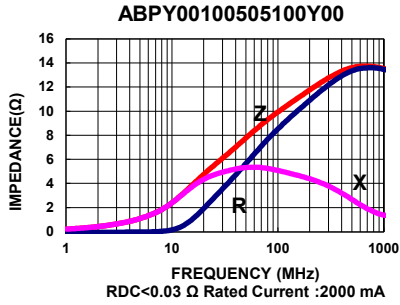
| Part No.           | Impedance<br>(Ω) | Test Freq.     | RDC<br>(Ω)Max. | Rated Current<br>(mA)Max. |
|--------------------|------------------|----------------|----------------|---------------------------|
| ABPY00100505100Y00 | 10               | 100 MHz,200 mV | 0.030          | 2000                      |
| 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                       |

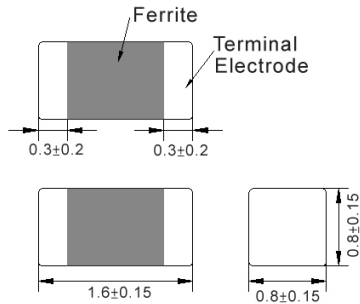
**Note: When ordering, please specify tolerance code. Tolerance: Y=±25%**

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**

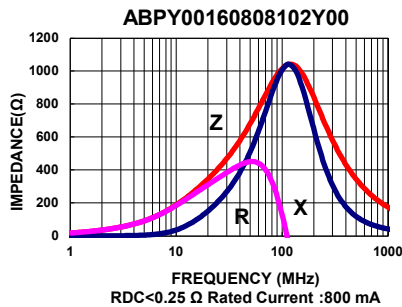
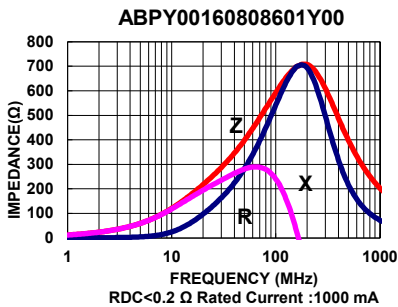
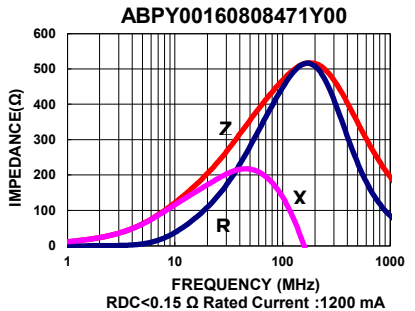
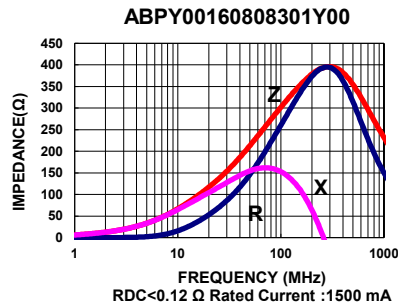
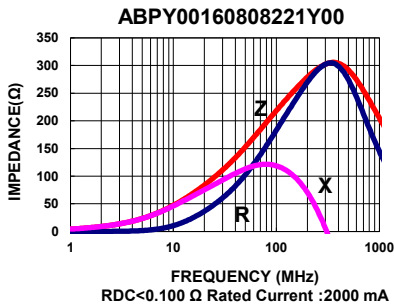
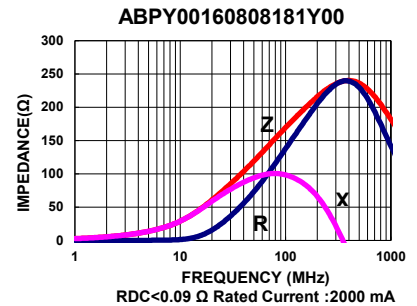
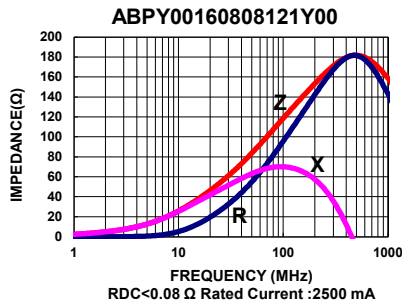
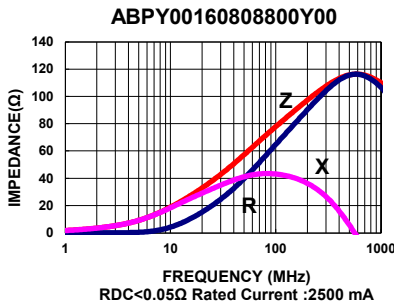
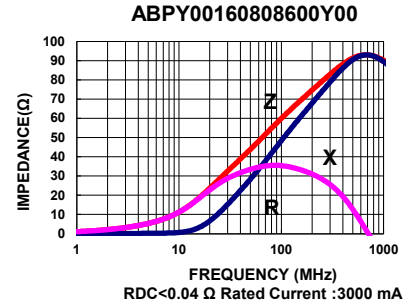
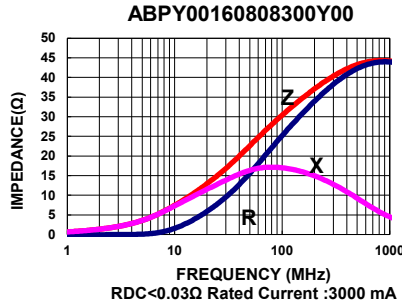
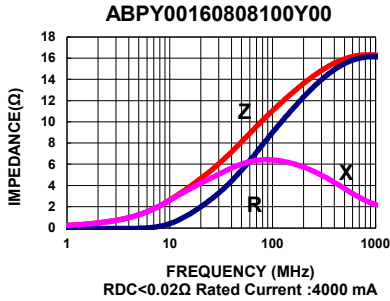
| Part No.           | Impedance<br>(Ω) | Test Freq.     | RDC<br>(Ω)Max. | Rated Current<br>(mA)Max. |
|--------------------|------------------|----------------|----------------|---------------------------|
| ABPY00160808100Y00 | 10               | 100 MHz,200 mV | 0.020          | 4000                      |
| 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                       |

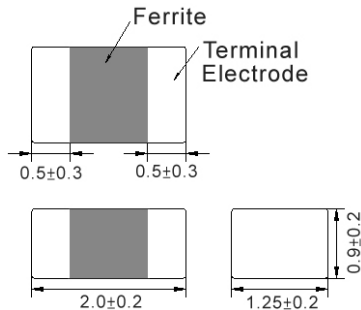
**Note: When ordering, please specify tolerance code. Tolerance: Y=±25%**

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

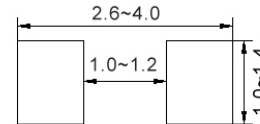
**ABPY00160808 Type**

**Characteristics Graph**



**ABPY00201209 Type**
**■ Dimensions**


unit:mm

**■ Recommended Land Pattern**


unit:mm

**■ Electrical Characteristics**

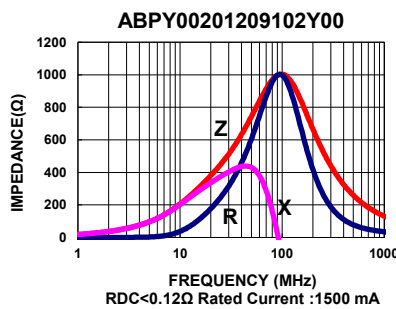
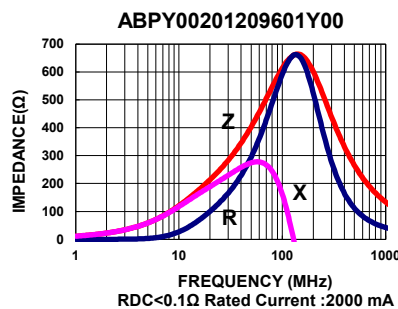
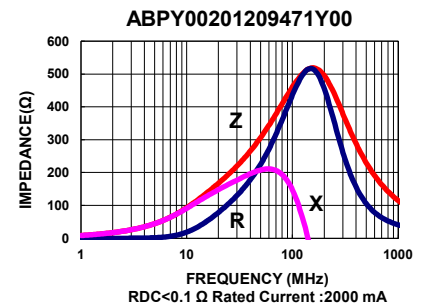
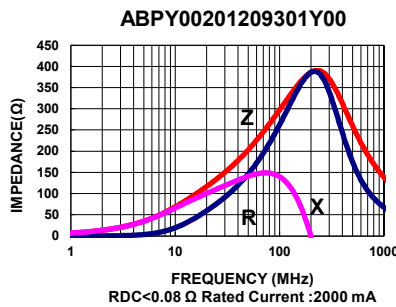
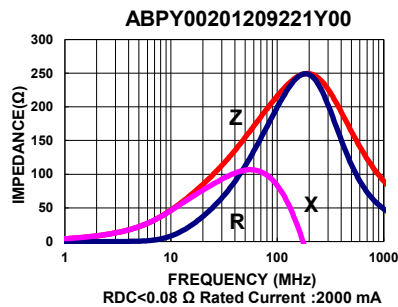
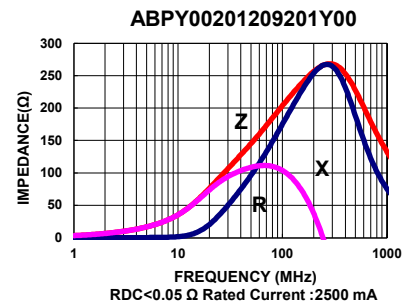
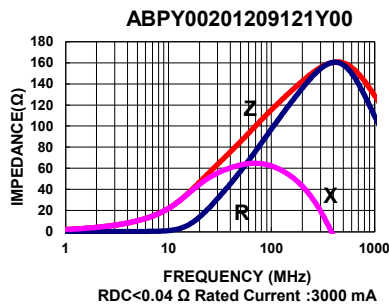
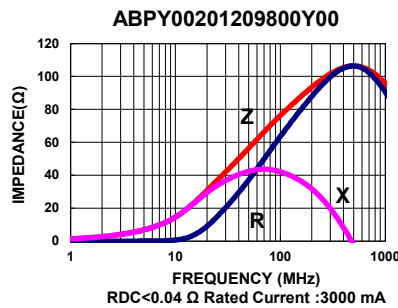
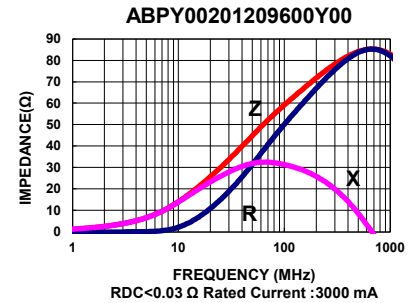
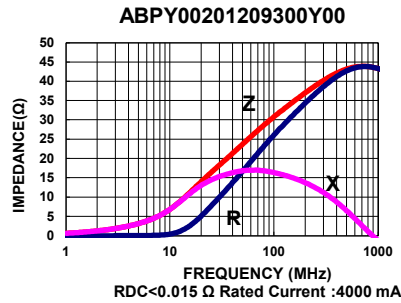
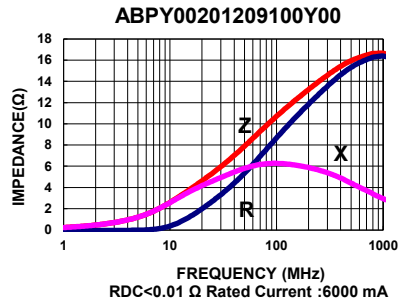
| Part No.           | Impedance<br>( $\Omega$ ) | Test Freq.      | RDC<br>( $\Omega$ )Max. | Rated Current<br>(mA)Max. |
|--------------------|---------------------------|-----------------|-------------------------|---------------------------|
| ABPY00201209100Y00 | 10                        | 100 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%**

- Operating temperature range - 55°C ~ 125°C
- 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

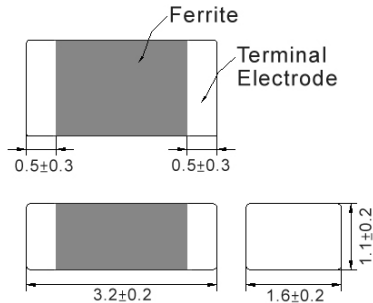
**ABPY00201209 Type**

**Characteristics Graph**



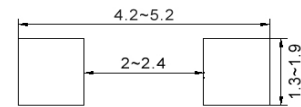
**ABPY00321611 Type**

**■ 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. |
|--------------------|------------------|----------------|----------------|---------------------------|
| 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             | 50MHz,200 Mv   | 0.150          | 1200                      |

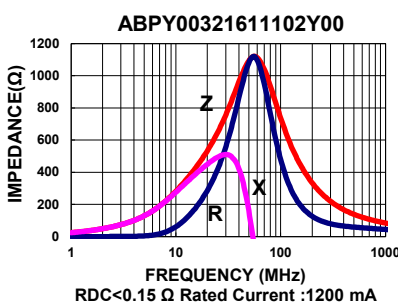
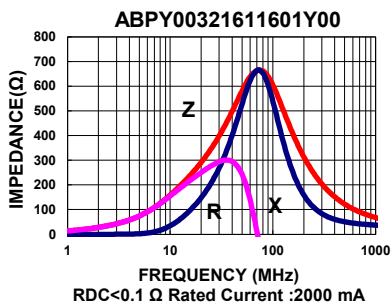
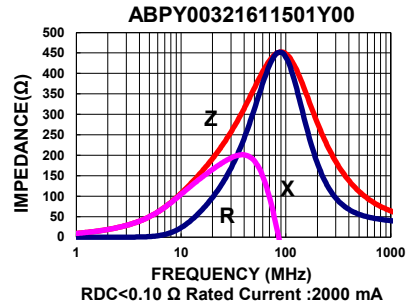
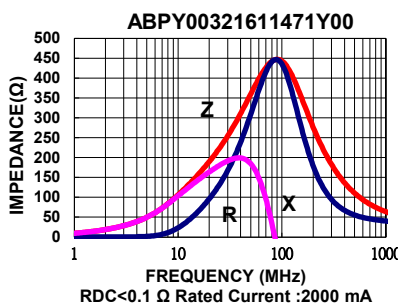
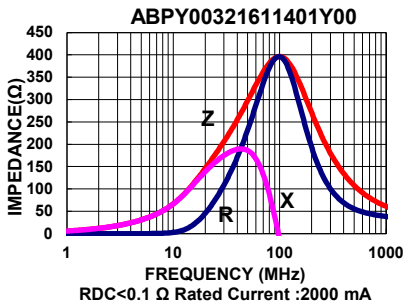
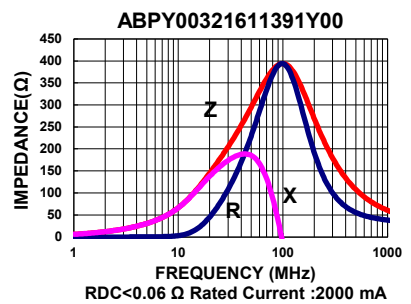
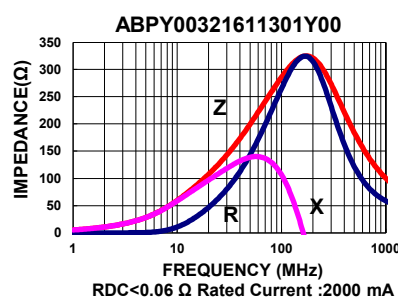
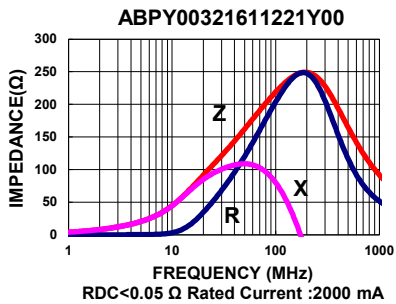
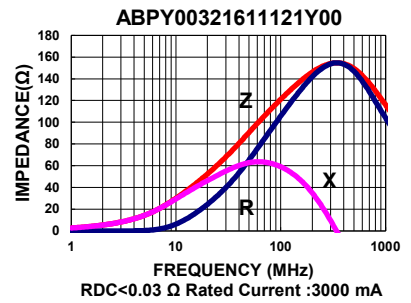
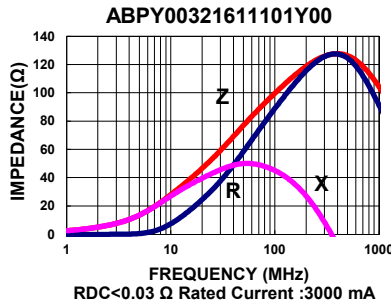
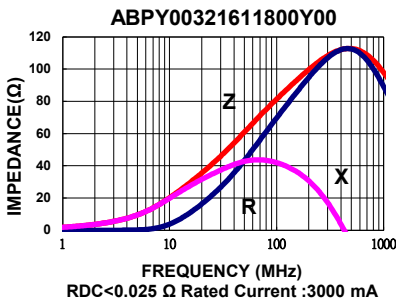
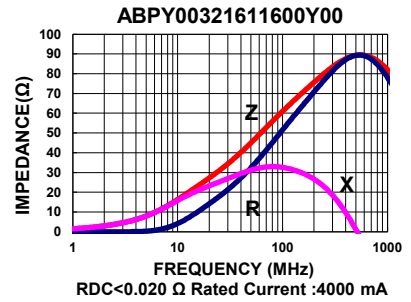
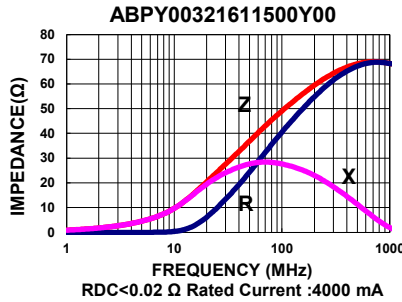
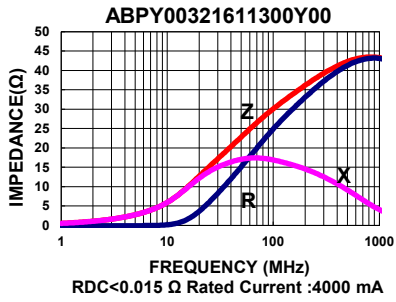
**Note: When ordering, please specify tolerance code. Tolerance: Y=±25%**

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Z: HP4291A  
RDC: HP4338B or CHEN HWA 502



**ABPY00321611 Type**

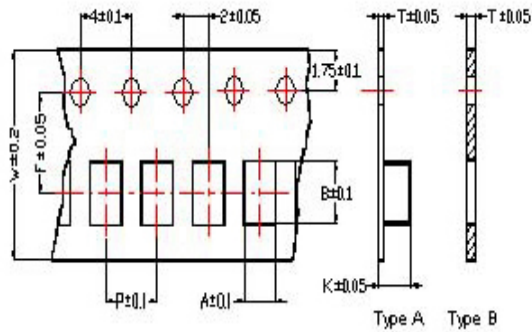
**Characteristics Graph**



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

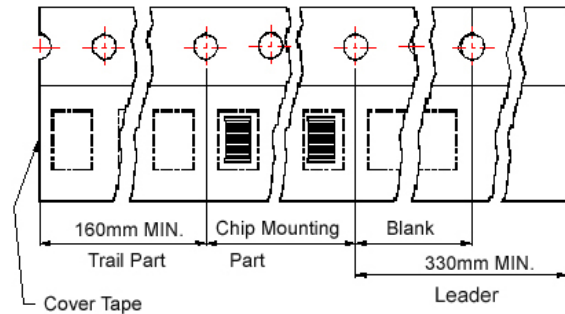
**■ Packaging**

**Tape Dimensions**

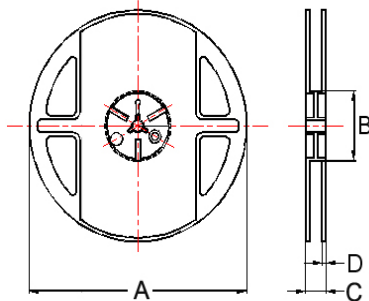


**Tape Material**

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



**Reel Dimensions**



**Dimensions in mm**

| TYPE         | Tape Dimensions |      |      |   |   |     |      |      | Reel Dimensions |    |    |   | Quantity   |
|--------------|-----------------|------|------|---|---|-----|------|------|-----------------|----|----|---|------------|
|              | A               | B    | T    | W | P | F   | K    | Tape | A               | B  | C  | D | PCS / Reel |
| 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       |

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[CZB2BFTTE301P](#) [CZB2BFTTE601P](#) [4221R-1](#) [432703041971](#) [EMI0805R-600](#) [SBY100505T-100Y-N](#) [NCB-GH0402D121TR060F](#)  
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[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](#)