



## SMD Multilayer Ferrite Chip Beads – UPB Series

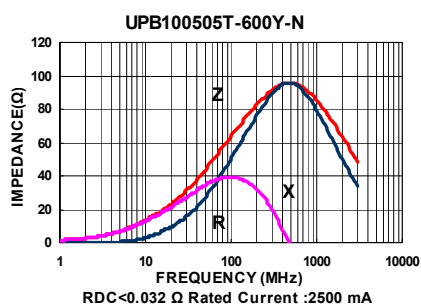
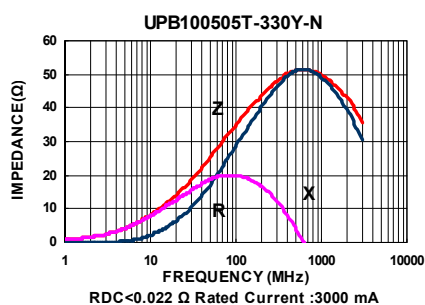
### Electrical Characteristics

| Part Number       | Impedance<br>( $\Omega \pm 25\%$ ) | Test Frequency<br>(MHz) | RDC<br>( $\Omega$ ) Max | Rated current<br>(mA) Max |
|-------------------|------------------------------------|-------------------------|-------------------------|---------------------------|
| UPB100505T-330Y-N | 33                                 | 100                     | 0.022                   | 3000                      |
| UPB100505T-600Y-N | 60                                 | 100                     | 0.032                   | 2500                      |
| UPB100505T-800Y-N | 80                                 | 100                     | 0.038                   | 2300                      |
| UPB100505T-121Y-N | 120                                | 100                     | 0.055                   | 2000                      |
| UPB100505T-181Y-N | 180                                | 100                     | 0.090                   | 1500                      |
| UPB100505T-221Y-N | 220                                | 100                     | 0.100                   | 1400                      |
| UPB100505T-331Y-N | 330                                | 100                     | 0.150                   | 1200                      |
| UPB100505T-471Y-N | 470                                | 100                     | 0.200                   | 1000                      |

**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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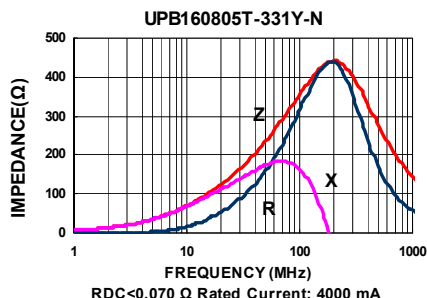
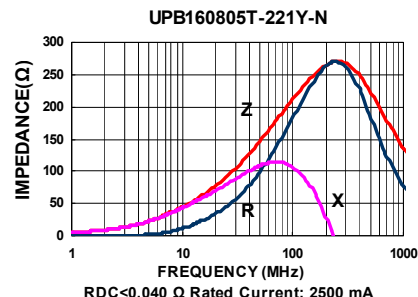
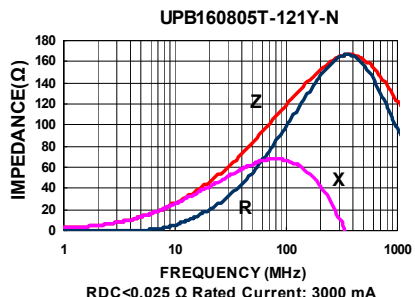
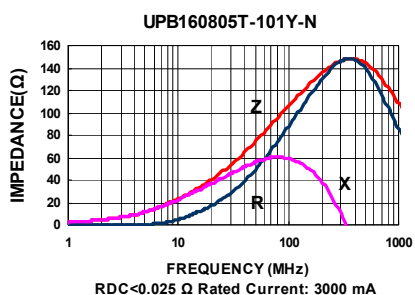
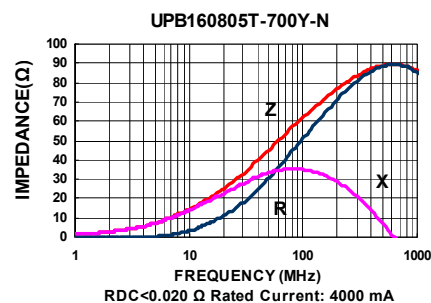
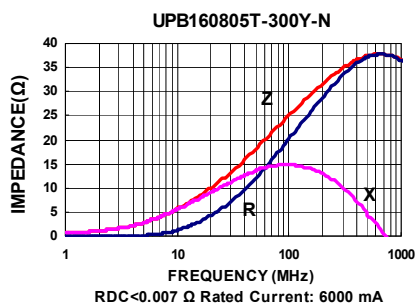
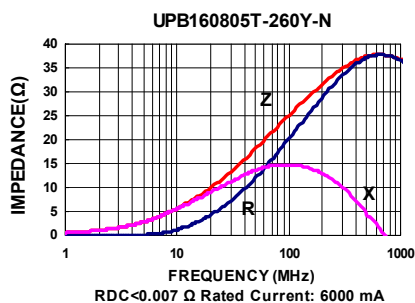
## Electrical Characteristics

| Part Number       | Impedance<br>( $\Omega \pm 25\%$ ) | Test Frequency<br>(MHz) | RDC<br>( $\Omega$ ) Max | Rated current<br>(mA) Max |
|-------------------|------------------------------------|-------------------------|-------------------------|---------------------------|
| UPB160805T-260Y-N | 26                                 | 100                     | 0.007                   | 6000                      |
| UPB160805T-300Y-N | 30                                 | 100                     | 0.007                   | 6000                      |
| UPB160805T-700Y-N | 70                                 | 100                     | 0.020                   | 4000                      |
| UPB160805T-101Y-N | 100                                | 100                     | 0.025                   | 3000                      |
| UPB160805T-121Y-N | 120                                | 100                     | 0.025                   | 3000                      |
| UPB160805T-221Y-N | 220                                | 100                     | 0.040                   | 2500                      |
| UPB160805T-331Y-N | 330                                | 100                     | 0.070                   | 1500                      |

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

- Operating temperature range - 55°C ~ 125°C(Including self - temperature rise)
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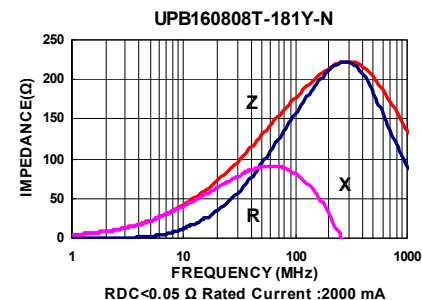
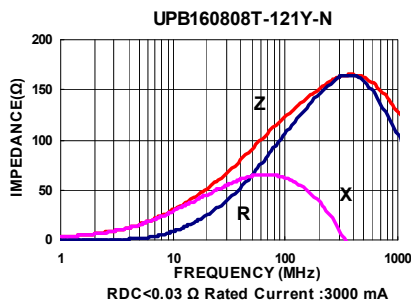
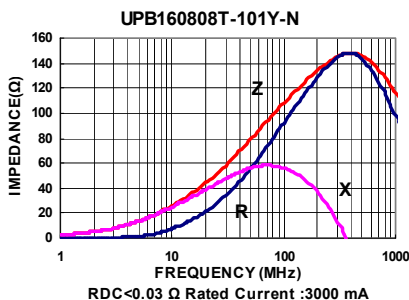
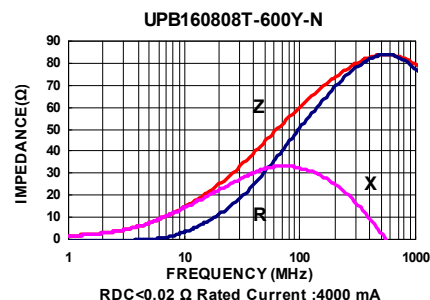
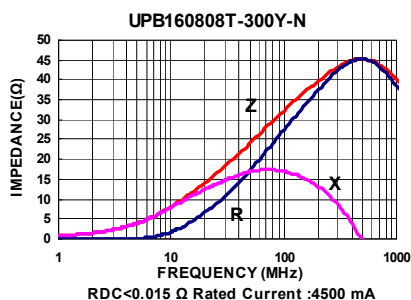
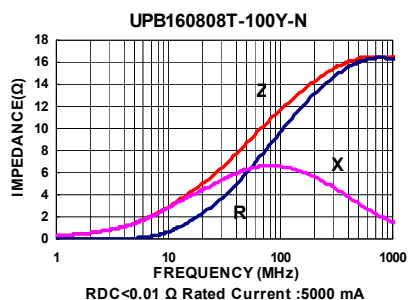
## Electrical Characteristics

| Part Number       | Impedance<br>( $\Omega \pm 25\%$ ) | Test Frequency<br>(MHz) | RDC<br>( $\Omega$ ) Max | Rated current<br>(mA) Max |
|-------------------|------------------------------------|-------------------------|-------------------------|---------------------------|
| UPB160808T-100Y-N | 10                                 | 100                     | 0.010                   | 5000                      |
| UPB160808T-300Y-N | 30                                 | 100                     | 0.015                   | 4500                      |
| UPB160808T-600Y-N | 60                                 | 100                     | 0.020                   | 4000                      |
| UPB160808T-700Y-N | 70                                 | 100                     | 0.020                   | 4000                      |
| UPB160808T-101Y-N | 100                                | 100                     | 0.030                   | 3000                      |
| UPB160808T-121Y-N | 120                                | 100                     | 0.030                   | 3000                      |
| UPB160808T-181Y-N | 180                                | 100                     | 0.050                   | 2000                      |
| UPB160808T-221Y-N | 220                                | 100                     | 0.040                   | 2500                      |

**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
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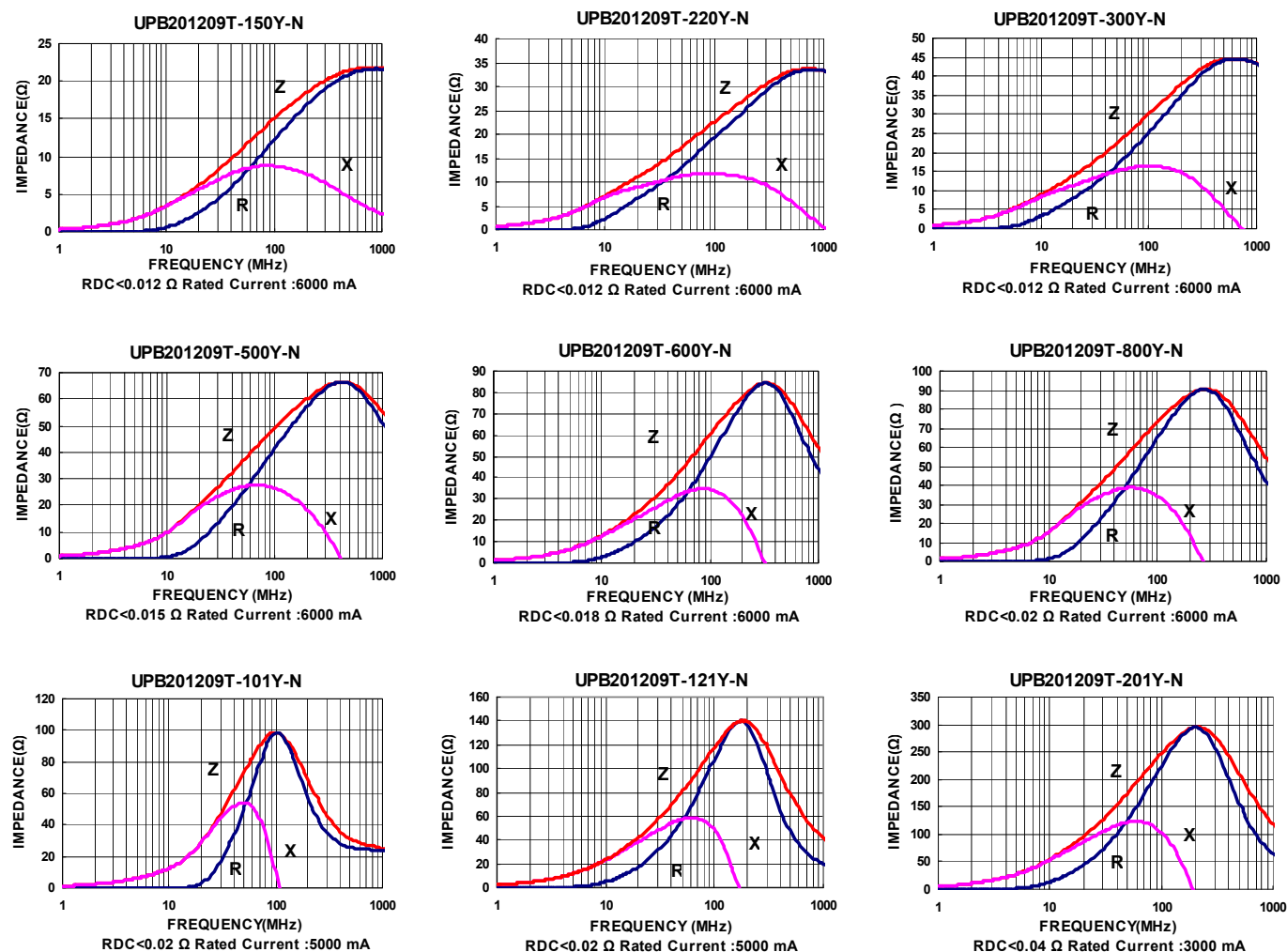
## Electrical Characteristics

| Part Number       | Impedance ( $\Omega \pm 25\%$ ) | Test Frequency (MHz) | RDC ( $\Omega$ ) Max | Rated current (mA) Max |
|-------------------|---------------------------------|----------------------|----------------------|------------------------|
| UPB201209T-150Y-N | 15                              | 100                  | 0.012                | 6000                   |
| UPB201209T-220Y-N | 22                              | 100                  | 0.012                | 6000                   |
| UPB201209T-300Y-N | 30                              | 100                  | 0.012                | 6000                   |
| UPB201209T-500Y-N | 50                              | 100                  | 0.015                | 6000                   |
| UPB201209T-600Y-N | 60                              | 100                  | 0.018                | 6000                   |
| UPB201209T-800Y-N | 80                              | 100                  | 0.02                 | 6000                   |
| UPB201209T-101Y-N | 100                             | 100                  | 0.02                 | 5000                   |
| UPB201209T-121Y-N | 120                             | 100                  | 0.02                 | 5000                   |
| UPB201209T-201Y-N | 200                             | 100                  | 0.04                 | 3000                   |
| UPB201209T-221Y-N | 220                             | 100                  | 0.04                 | 3000                   |
| UPB201209T-301Y-N | 300                             | 100                  | 0.05                 | 3000                   |
| UPB201209T-331Y-N | 330                             | 100                  | 0.05                 | 3000                   |

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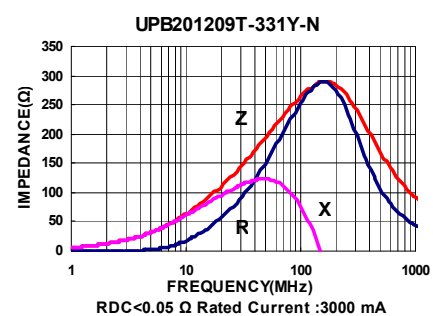
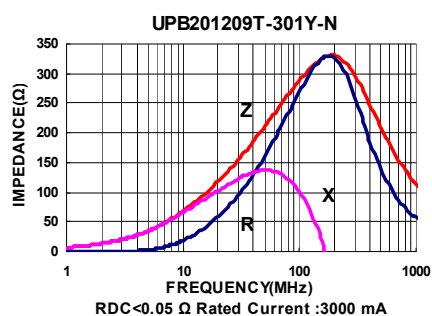
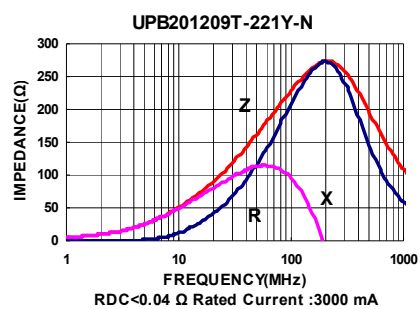
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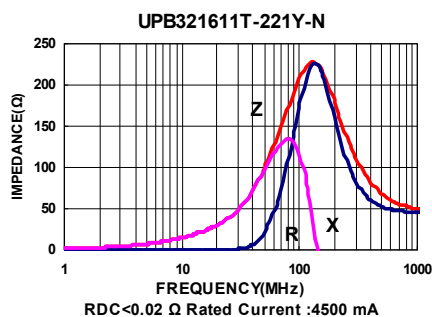
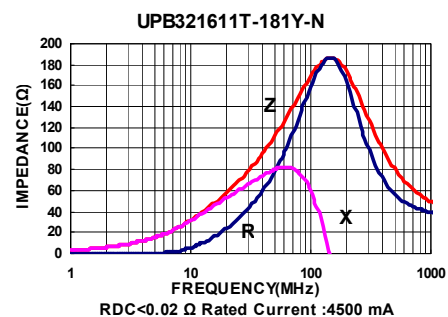
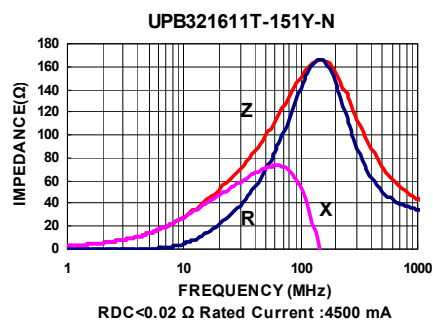
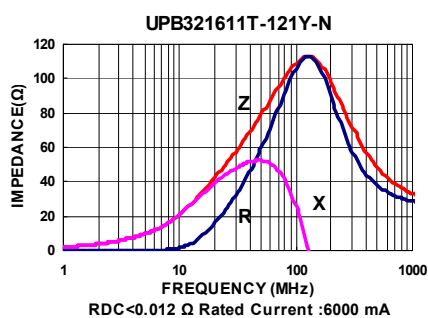
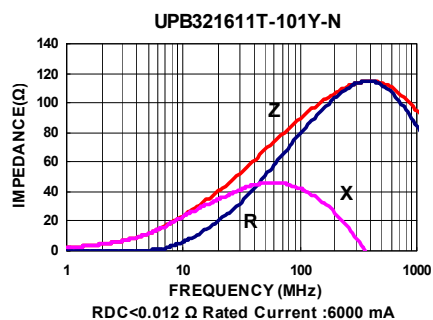
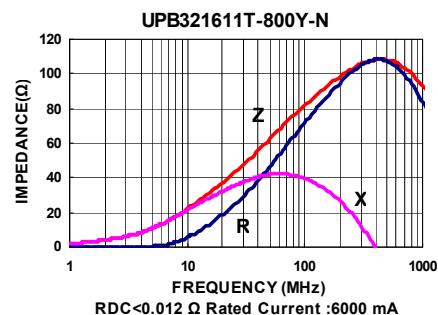
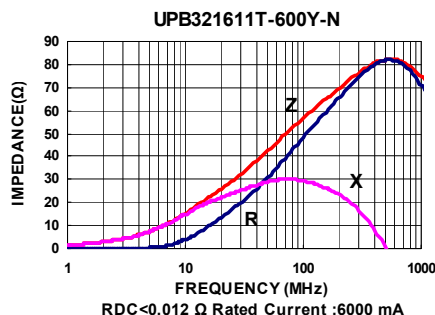
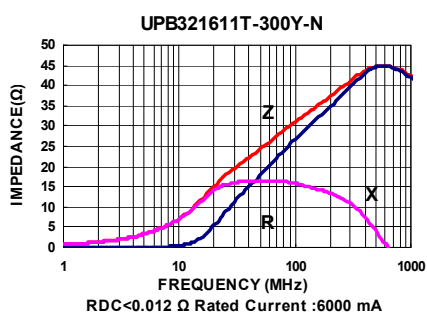
## Electrical Characteristics

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|-------------------|------------------------------------|-------------------------|-------------------------|---------------------------|
| UPB321611T-300Y-N | 30                                 | 100                     | 0.012                   | 6000                      |
| UPB321611T-600Y-N | 60                                 | 100                     | 0.012                   | 6000                      |
| UPB321611T-800Y-N | 80                                 | 100                     | 0.012                   | 6000                      |
| UPB321611T-101Y-N | 100                                | 100                     | 0.012                   | 6000                      |
| UPB321611T-121Y-N | 120                                | 100                     | 0.012                   | 6000                      |
| UPB321611T-151Y-N | 150                                | 100                     | 0.020                   | 4500                      |
| UPB321611T-181Y-N | 180                                | 100                     | 0.020                   | 4500                      |
| UPB321611T-221Y-N | 220                                | 100                     | 0.020                   | 4500                      |

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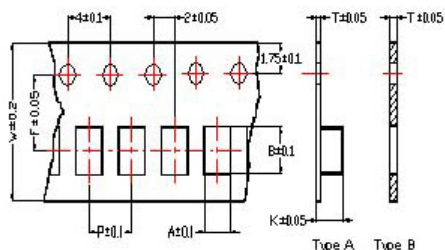
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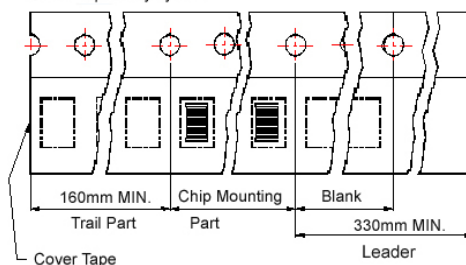
## Packaging Specifications

### Tape Dimensions

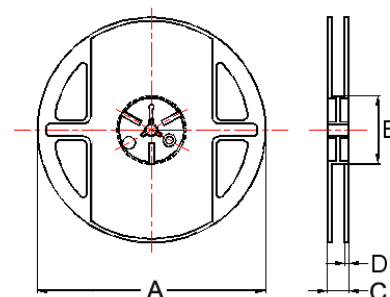


### Tape Material

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



### Reel Dimensions



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

## Dimensions in mm

| TYPE    | Tape Dimensions |      |      |     |     |     |      |      | Reel Dimensions |    |    |   | Quantity<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 | 0.65            | 1.15 | 0.60 | 8.0 | 2.0 | 3.5 | -    | B    | 178             | 60 | 12 | 2 | 10000                  |
| ③160805 | 1.05            | 1.85 | 0.75 | 8.0 | 4.0 | 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                   |