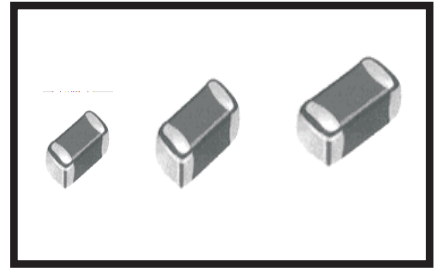


# 鐵氧體疊層片式磁珠 (普通型) FERRITE CHIP BEADS

## 鐵氧體疊層片式磁珠 (普通型) FERRITE CHIP BEADS

|                 |      |          |
|-----------------|------|----------|
| OPERATING TEMP. | 1005 | -40~85℃  |
|                 | 1608 | -40~+85℃ |
|                 | 2012 | -40~+85℃ |



### ● 特征 FEATURES

- 在同樣的尺寸下較插裝磁珠可產生較高的阻抗值
- 與傳統的磁珠不同，片式磁珠無引線，只要簡單的安裝到PCB板上就可抑制EMI和RFI
- 磁珠的形狀和尺寸都符合EIA標準，可以利用SMT設備進行自動貼裝
- Under the same size, the multilayer chip beads produce higher impedance than plug-in beads.
- These CBG series have substantial EMI/RFI suppression by simply mounting them onto PCB
- Suitable EIA standard in shape and dimension of chip beads; Can be mounted automatically by SMT equipments.

### ● 應用 APPLICATIONS

- 用于數據傳輸綫、信號綫、電源部分及回路的抗干擾。
- Redialed noise suppression on digital product clock lines、signal lines and suppression noise on circuit.

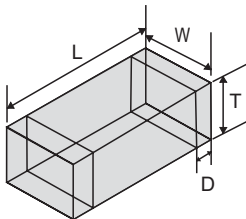
### ● 產品規格型號的表示方法 ORDERING CODE

CBG  
①
201209  
②
U  
③
121  
④
T  
⑤

| ① 產品代號<br>Product Code |   | ② 規格尺寸(L×W×T)<br>(mm)<br>Dimensions |             | ③ 材料代號<br>Material Code | ④ 阻抗(Ω)<br>Impedance |      | ⑤ 包裝方式<br>Packaging Style |                     |
|------------------------|---|-------------------------------------|-------------|-------------------------|----------------------|------|---------------------------|---------------------|
| CBG                    | 疊層片式通用型磁珠<br>Multilayer ordinary chip beads | 100505                              | 1.0×0.5×0.5 | U                       | 實例<br>Example        |      | T                         | 卷帶盤裝<br>Tape & Reel |
|                        |   | 160808                              | 1.6×0.8×0.8 |                         | 110                  | 11   | B                         | 散裝 Bulk             |
|                        |   | 201209                              | 2.0×1.2×0.9 |                         | 121                  | 120  |                           |                     |
|                        |   | 321609                              | 3.2×1.6×0.9 |                         | 221                  | 220  |                           |                     |
|                        |   | 322513                              | 3.2×2.5×1.3 |                         | 102                  | 1000 |                           |                     |
|                        |   | 451616                              | 4.5×1.6×1.6 |                         |                      |      |                           |                     |
|                        |   | 453215                              | 4.5×3.2×1.5 |                         |                      |      |                           |                     |

### ● 外形尺寸 SHAPE AND DIMENSIONS

unit: mm(inch)



| Part No.         | L                         | W                         | T                         | D                          |
|------------------|---------------------------|---------------------------|---------------------------|----------------------------|
| 100505<br>(0402) | 1.0±0.15<br>(0.040±0.006) | 0.5±0.15<br>(0.020±0.006) | 0.5±0.15<br>(0.020±0.006) | 0.25±0.10<br>(0.010±0.004) |
| 160808<br>(0603) | 1.6±0.2<br>(0.063±0.008)  | 0.8±0.2<br>(0.031±0.008)  | 0.8±0.2<br>(0.031±0.008)  | 0.3±0.2<br>(0.01±0.008)    |
| 201209<br>(0805) | 2.0±0.2<br>(0.079±0.008)  | 1.2±0.2<br>(0.047±0.008)  | 0.9±0.2<br>(0.035±0.008)  | 0.5±0.3<br>(0.020±0.012)   |
| 321609<br>(1206) | 3.2±0.2<br>(0.126±0.008)  | 1.6±0.2<br>(0.063±0.008)  | 0.9±0.2<br>(0.035±0.008)  | 0.5±0.3<br>(0.020±0.012)   |
| 322513<br>(1210) | 3.2±0.2<br>(0.126±0.008)  | 2.5±0.2<br>(0.098±0.008)  | 1.3±0.2<br>(0.051±0.008)  | 0.5±0.3<br>(0.020±0.012)   |
| 451616<br>(1806) | 4.5±0.2<br>(0.186±0.008)  | 1.6±0.2<br>(0.063±0.008)  | 1.6±0.2<br>(0.063±0.008)  | 0.5±0.3<br>(0.020±0.012)   |
| 453215<br>(1812) | 4.5±0.2<br>(0.180±0.008)  | 3.2±0.2<br>(0.126±0.008)  | 1.5±0.2<br>(0.060±0.008)  | 0.5±0.3<br>(0.020±0.012)   |

• 電性能參數 ELECTRICAL CHARACTERISTICS

1005 TYPE

| Part No.      | Impedance( $\Omega$ )<br>At 100MHz | DCR ( $\Omega$ )Max | Ir (mA)Max |
|---------------|------------------------------------|---------------------|------------|
| CBG100505U070 | 0~11                               | 0.10                | 300        |
| CBG100505U190 | 12~25                              | 0.10                | 300        |
| CBG100505U260 | 26 $\pm$ 25%                       | 0.15                | 300        |
| CBG100505U310 | 31 $\pm$ 25%                       | 0.20                | 300        |
| CBG100505U360 | 36 $\pm$ 25%                       | 0.20                | 300        |
| CBG100505U600 | 60 $\pm$ 25%                       | 0.35                | 200        |
| CBG100505U101 | 100 $\pm$ 25%                      | 0.50                | 150        |
| CBG100505U121 | 120 $\pm$ 25%                      | 0.50                | 150        |
| CBG100505U151 | 150 $\pm$ 25%                      | 0.55                | 150        |
| CBG100505U201 | 200 $\pm$ 25%                      | 0.70                | 100        |
| CBG100505U301 | 300 $\pm$ 25%                      | 0.80                | 100        |
| CBG100505U501 | 500 $\pm$ 25%                      | 1.10                | 100        |
| CBG100505U601 | 600 $\pm$ 25%                      | 1.30                | 100        |
| CBG100505U801 | 800 $\pm$ 25%                      | 1.40                | 50         |
| CBG100505U102 | 1000 $\pm$ 25%                     | 1.60                | 25         |
| CBG100505U122 | 1200 $\pm$ 25%                     | 1.80                | 25         |

1608 TYPE

| Part No.      | Impedance( $\Omega$ )<br>At 100MHz | DCR ( $\Omega$ )Max | Ir (mA)Max |
|---------------|------------------------------------|---------------------|------------|
| CBG160808U070 | 0~11                               | 0.10                | 800        |
| CBG160808U150 | 9~21                               | 0.10                | 800        |
| CBG160808U310 | 31 $\pm$ 25%                       | 0.10                | 500        |
| CBG160808U700 | 70 $\pm$ 25%                       | 0.20                | 300        |
| CBG160808U800 | 80 $\pm$ 25%                       | 0.20                | 300        |
| CBG160808U101 | 100 $\pm$ 25%                      | 0.30                | 200        |
| CBG160808U121 | 120 $\pm$ 25%                      | 0.30                | 200        |
| CBG160808U151 | 150 $\pm$ 25%                      | 0.35                | 200        |
| CBG160808U181 | 180 $\pm$ 25%                      | 0.45                | 200        |
| CBG160808U221 | 220 $\pm$ 25%                      | 0.45                | 200        |
| CBG160808U301 | 300 $\pm$ 25%                      | 0.50                | 150        |
| CBG160808U501 | 500 $\pm$ 25%                      | 0.60                | 150        |
| CBG160808U601 | 600 $\pm$ 25%                      | 0.60                | 100        |
| CBG160808U801 | 800 $\pm$ 25%                      | 0.70                | 100        |
| CBG160808U102 | 1000 $\pm$ 25%                     | 0.80                | 100        |
| CBG160808U122 | 1200 $\pm$ 25%                     | 0.85                | 100        |
| CBG160808U152 | 1500 $\pm$ 25%                     | 0.85                | 50         |
| CBG160808U182 | 1800 $\pm$ 25%                     | 1.10                | 50         |
| CBG160808U202 | 2000 $\pm$ 25%                     | 1.10                | 50         |

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2012 TYPE

| Part No.      | Impedance( $\Omega$ )<br>At 100MHz | DCR ( $\Omega$ )Max | I <sub>r</sub> (mA)Max |
|---------------|------------------------------------|---------------------|------------------------|
| CBG201209U050 | 0~15                               | 0.08                | 900                    |
| CBG201209U110 | 7~15                               | 0.10                | 900                    |
| CBG201209U260 | 26 $\pm$ 25%                       | 0.10                | 900                    |
| CBG201209U310 | 31 $\pm$ 25%                       | 0.10                | 900                    |
| CBG201209U500 | 50 $\pm$ 25%                       | 0.15                | 900                    |
| CBG201209U600 | 60 $\pm$ 25%                       | 0.15                | 900                    |
| CBG201209U800 | 80 $\pm$ 25%                       | 0.18                | 500                    |
| CBG201209U101 | 100 $\pm$ 25%                      | 0.18                | 400                    |
| CBG201209U121 | 120 $\pm$ 25%                      | 0.20                | 400                    |
| CBG201209U151 | 150 $\pm$ 25%                      | 0.20                | 400                    |
| CBG201209U181 | 180 $\pm$ 25%                      | 0.20                | 300                    |
| CBG201209U221 | 220 $\pm$ 25%                      | 0.20                | 300                    |
| CBG201209U301 | 300 $\pm$ 25%                      | 0.35                | 300                    |
| CBG201209U501 | 500 $\pm$ 25%                      | 0.40                | 300                    |
| CBG201209U601 | 600 $\pm$ 25%                      | 0.40                | 300                    |
| CBG201209U801 | 800 $\pm$ 25%                      | 0.45                | 200                    |
| CBG201209U102 | 1000 $\pm$ 25%                     | 0.45                | 200                    |
| CBG201209U122 | 1200 $\pm$ 25%                     | 0.60                | 100                    |
| CBG201209U152 | 1500 $\pm$ 25%                     | 0.70                | 100                    |
| CBG201209U202 | 2000 $\pm$ 25%                     | 0.90                | 50                     |

3216 TYPE

| Part No.      | Impedance( $\Omega$ )<br>At 100MHz | DCR ( $\Omega$ )Max | I <sub>r</sub> (mA)Max |
|---------------|------------------------------------|---------------------|------------------------|
| CBG321609U050 | 0~15                               | 0.10                | 1000                   |
| CBG321609U110 | 7~15                               | 0.10                | 1000                   |
| CBG321609U260 | 26 $\pm$ 25%                       | 0.10                | 1000                   |
| CBG321609U310 | 31 $\pm$ 25%                       | 0.10                | 1000                   |
| CBG321609U600 | 60 $\pm$ 25%                       | 0.15                | 1000                   |
| CBG321609U800 | 80 $\pm$ 25%                       | 0.15                | 1000                   |
| CBG321609U121 | 120 $\pm$ 25%                      | 0.25                | 1000                   |
| CBG321609U151 | 150 $\pm$ 25%                      | 0.30                | 400                    |
| CBG321609U181 | 180 $\pm$ 25%                      | 0.30                | 400                    |
| CBG321609U221 | 220 $\pm$ 25%                      | 0.35                | 400                    |
| CBG321609U301 | 300 $\pm$ 25%                      | 0.40                | 400                    |
| CBG321609U501 | 500 $\pm$ 25%                      | 0.45                | 300                    |
| CBG321609U601 | 600 $\pm$ 25%                      | 0.45                | 300                    |
| CBG321609U801 | 800 $\pm$ 25%                      | 0.55                | 300                    |
| CBG321609U102 | 1000 $\pm$ 25%                     | 0.55                | 300                    |
| CBG321609U122 | 1200 $\pm$ 25%                     | 0.60                | 100                    |

### 3225 TYPE

| Part No.      | Impedance( $\Omega$ )<br>At 100MHz | DCR ( $\Omega$ )Max | I <sub>r</sub> (mA)Max |
|---------------|------------------------------------|---------------------|------------------------|
| CBG322513U190 | 12~25                              | 0.10                | 1000                   |
| CBG322513U260 | 26±25%                             | 0.10                | 1000                   |
| CBG322513U310 | 31±25%                             | 0.10                | 1000                   |
| CBG322513U600 | 60±25%                             | 0.15                | 1000                   |
| CBG322513U800 | 80±25%                             | 0.20                | 400                    |
| CBG322513U101 | 100±25%                            | 0.20                | 400                    |
| CBG322513U121 | 120±25%                            | 0.20                | 400                    |
| CBG322513U151 | 150±25%                            | 0.30                | 400                    |
| CBG322513U181 | 180±25%                            | 0.40                | 400                    |
| CBG322513U221 | 220±25%                            | 0.40                | 400                    |
| CBG322513U301 | 300±25%                            | 0.40                | 400                    |
| CBG322515U501 | 500±25%                            | 0.40                | 300                    |
| CBG322513U601 | 600±25%                            | 0.40                | 300                    |
| CBG322513U801 | 800±25%                            | 0.40                | 300                    |
| CBG322513U102 | 1000±25%                           | 0.40                | 300                    |

### 4516 TYPE

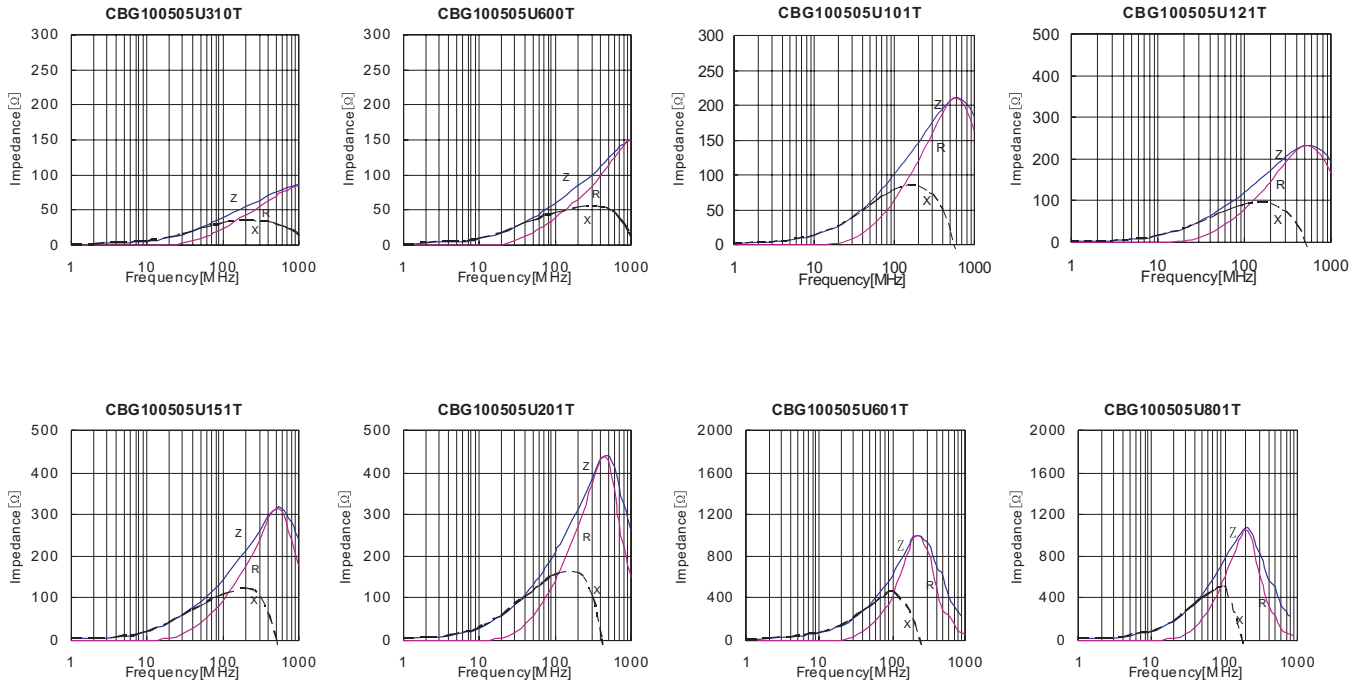
| Part No.      | Impedance( $\Omega$ )<br>At 100MHz | DCR ( $\Omega$ )Max | I <sub>r</sub> (mA)Max |
|---------------|------------------------------------|---------------------|------------------------|
| CBG451616U190 | 12~25                              | 0.10                | 1000                   |
| CBG451616U260 | 26±25%                             | 0.10                | 1000                   |
| CBG451616U310 | 31±25%                             | 0.15                | 1000                   |
| CBG451616U600 | 60±25%                             | 0.20                | 1000                   |
| CBG451616U700 | 70±25%                             | 0.25                | 1000                   |
| CBG451616U800 | 80±25%                             | 0.30                | 1000                   |
| CBG451616U900 | 90±25%                             | 0.35                | 1000                   |
| CBG451616U121 | 120±25%                            | 0.40                | 500                    |
| CBG451616U151 | 150±25%                            | 0.40                | 500                    |
| CBG451616U221 | 220±25%                            | 0.45                | 500                    |
| CBG451616U301 | 300±25%                            | 0.45                | 500                    |
| CBG451616U501 | 500±25%                            | 0.50                | 200                    |
| CBG451616U601 | 600±25%                            | 0.50                | 200                    |
| CBG451616U801 | 800±25%                            | 0.55                | 200                    |

### 4532 TYPE

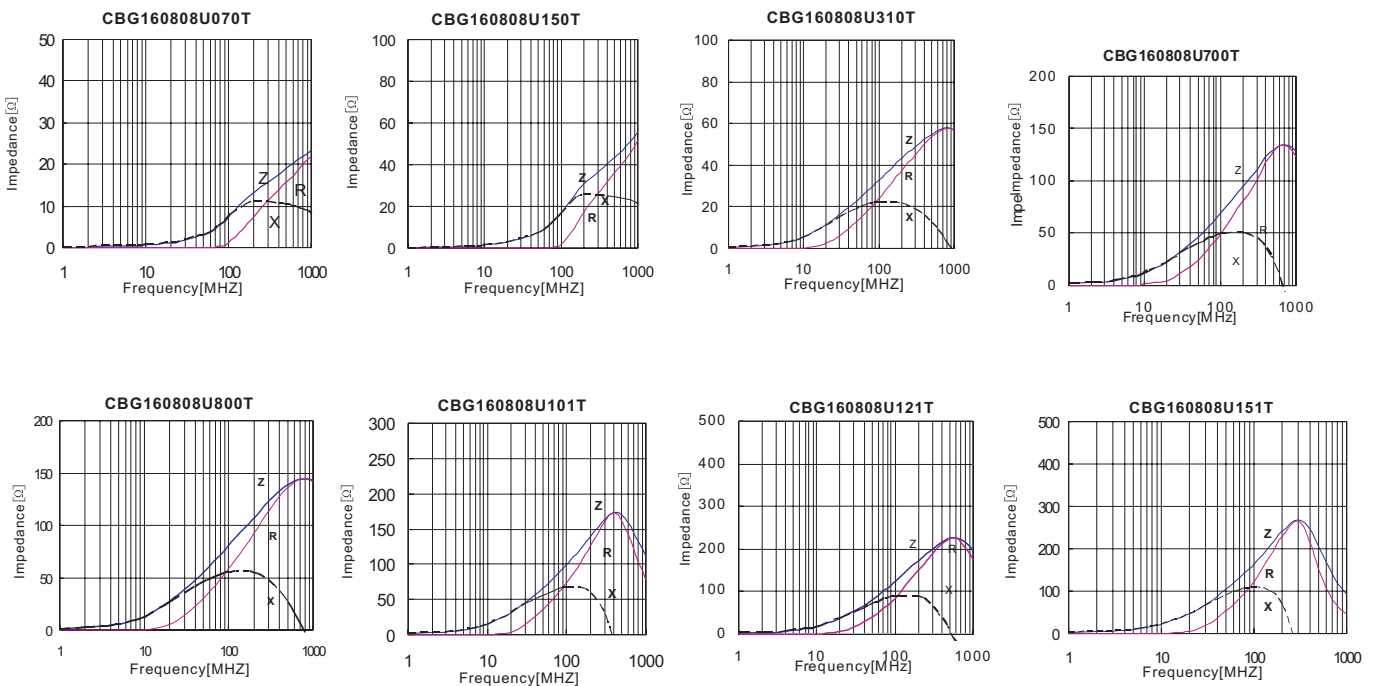
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|---------------|------------------------------------|---------------------|------------------------|
| CBG453215U190 | 12~25                              | 0.10                | 1000                   |
| CBG453215U380 | 38±25%                             | 0.15                | 1000                   |
| CBG453215U700 | 70±25%                             | 0.20                | 1000                   |
| CBG453215U800 | 80±25%                             | 0.20                | 1000                   |
| CBG453215U101 | 100±25%                            | 0.20                | 500                    |
| CBG453215U121 | 120±25%                            | 0.25                | 500                    |
| CBG453215U151 | 150±25%                            | 0.25                | 500                    |
| CBG453215U221 | 220±25%                            | 0.30                | 300                    |
| CBG453215U301 | 300±25%                            | 0.30                | 300                    |
| CBG453215U601 | 600±25%                            | 0.40                | 200                    |
| CBG453215U801 | 800±25%                            | 0.45                | 200                    |
| CBG453215U102 | 1000±25%                           | 0.50                | 200                    |

鐵氧體疊層片式磁珠 (普通型)  
FERRITE CHIP BEADS

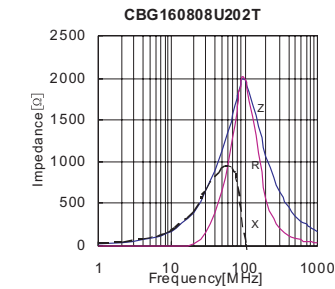
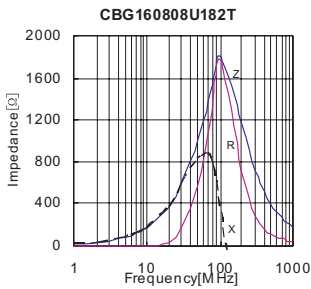
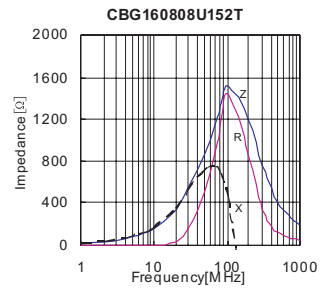
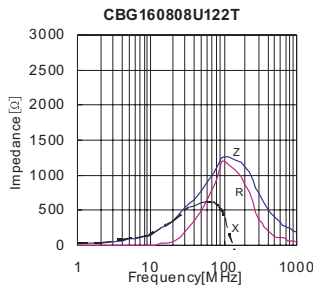
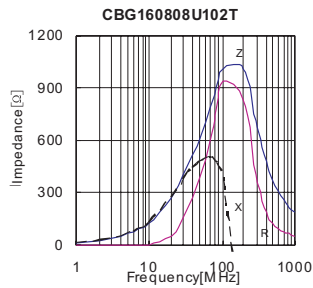
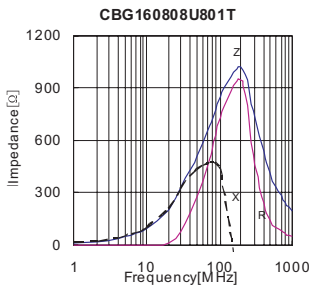
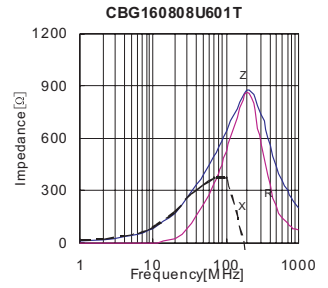
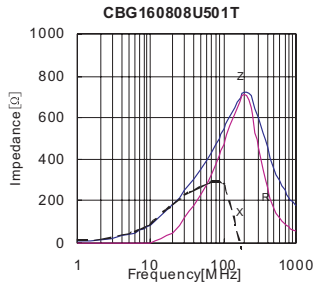
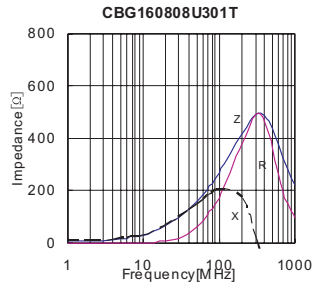
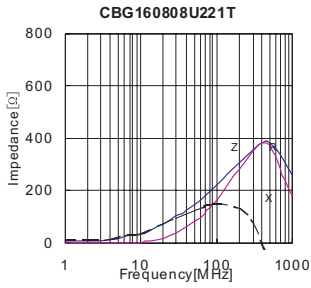
1005 SERIES



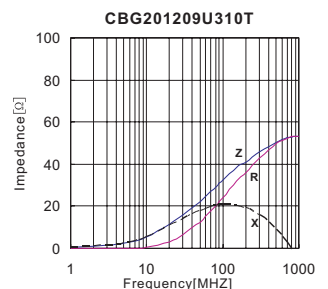
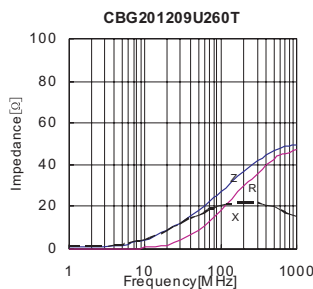
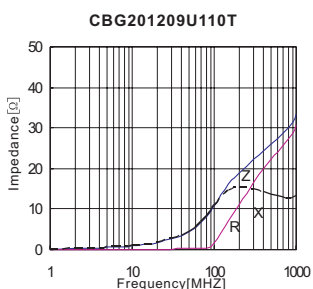
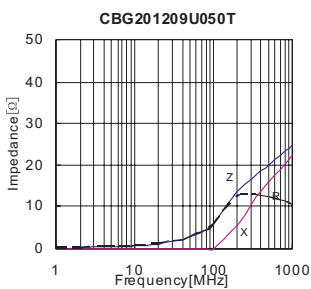
1608 SERIES



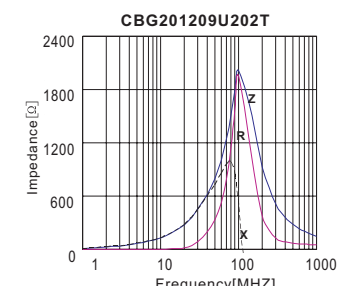
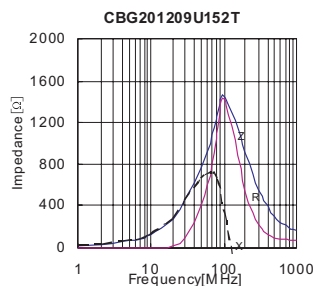
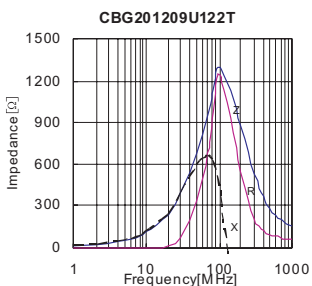
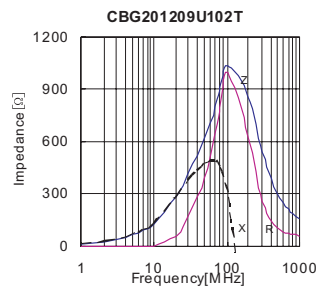
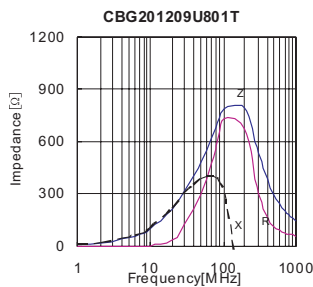
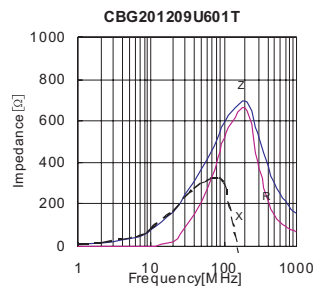
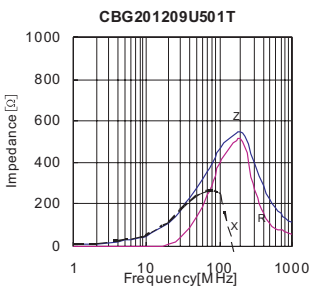
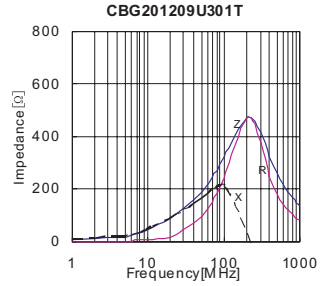
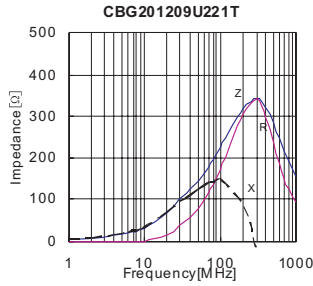
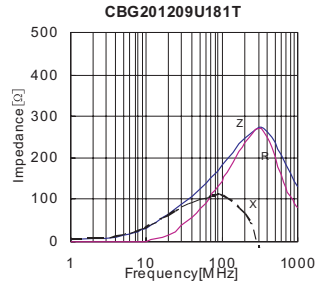
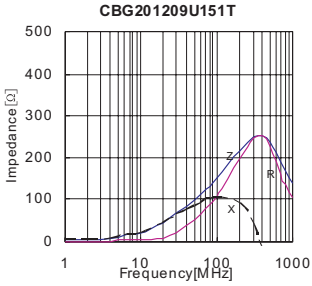
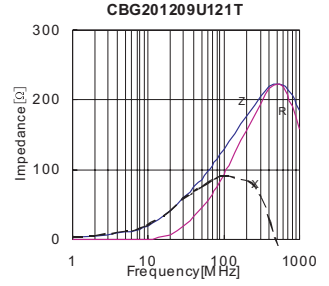
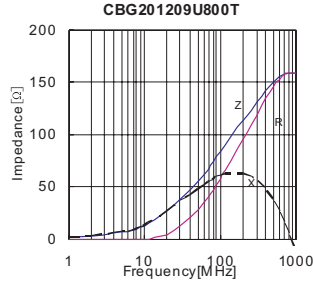
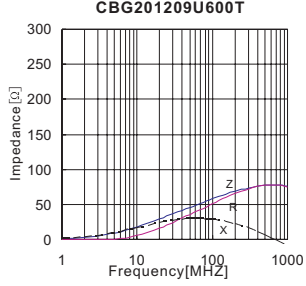
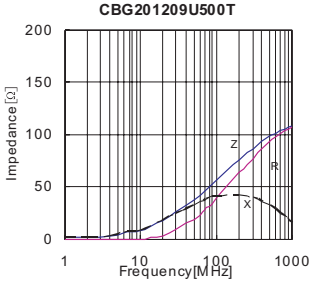
■ 鐵氧體疊層片式磁珠 (普通型)  
**FERRITE CHIP BEADS**

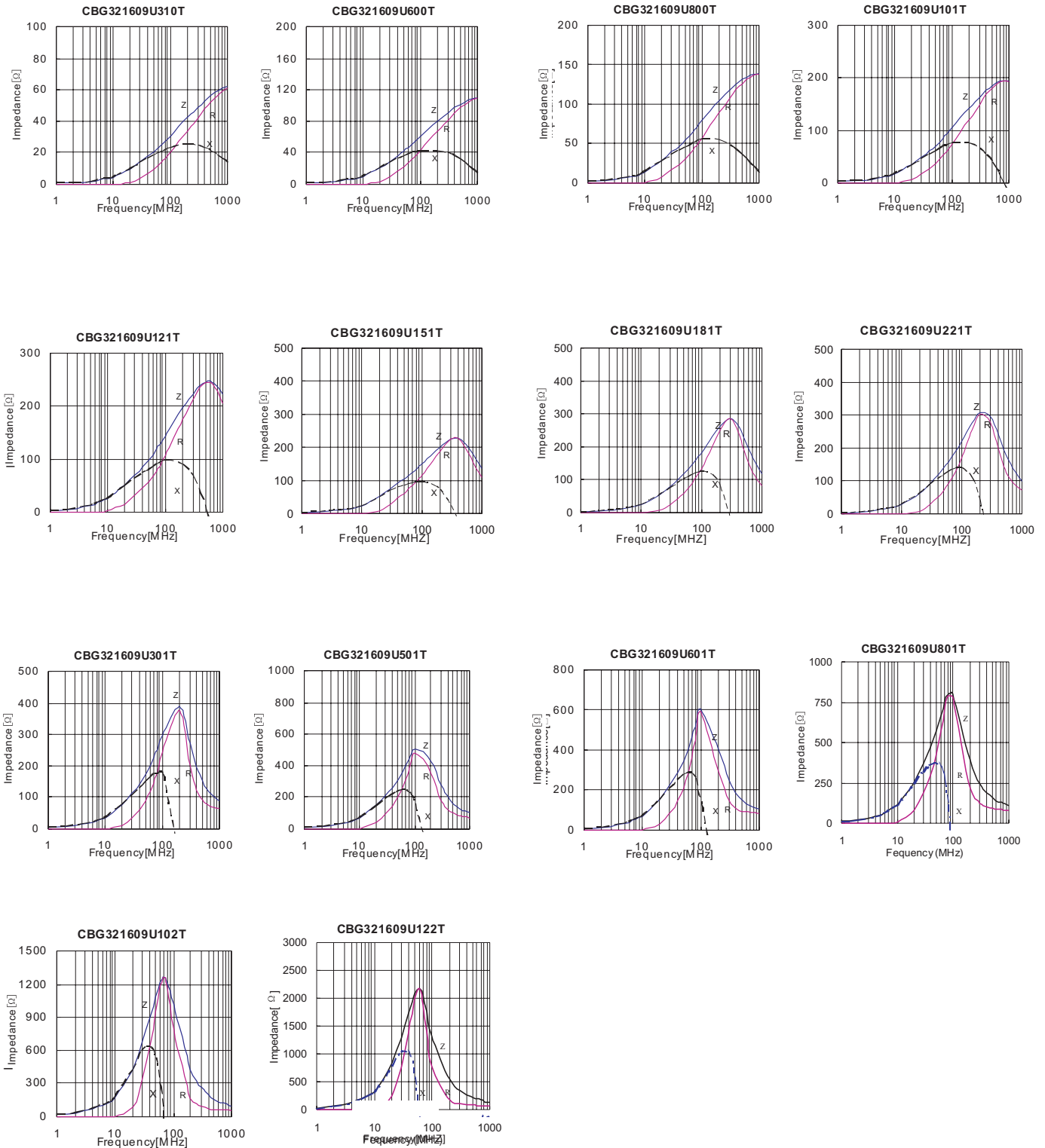


**2012 SERIES**



鐵氧體疊層片式磁珠 (普通型)  
FERRITE CHIP BEADS

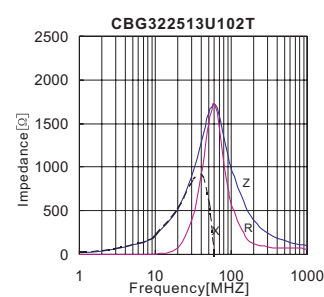
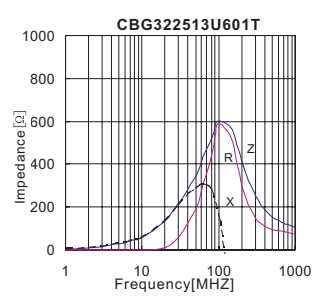
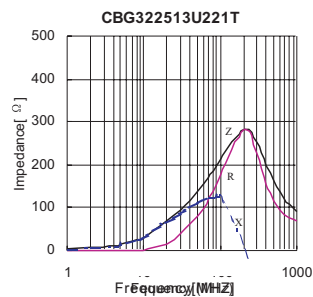
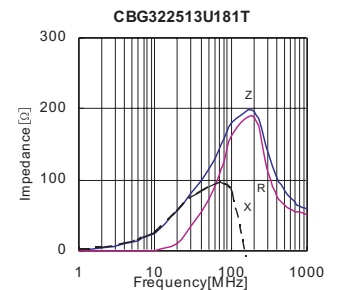
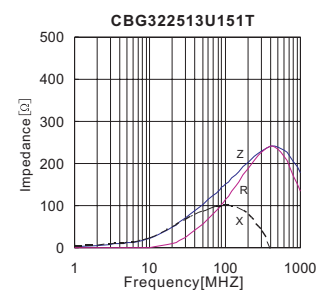
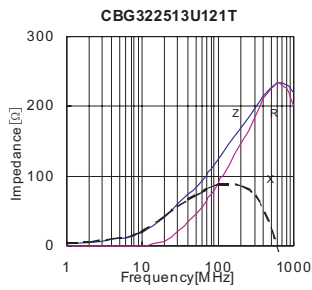
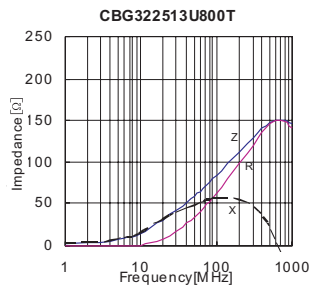
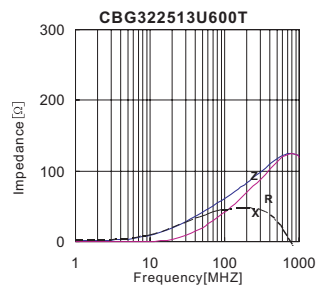
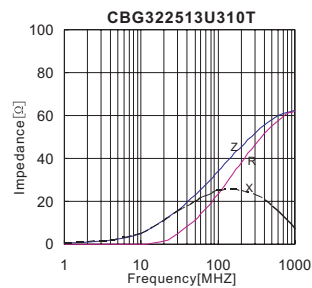
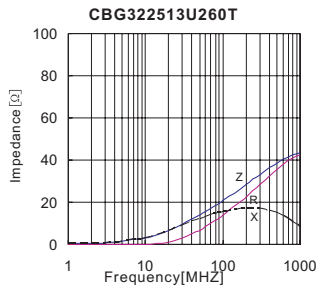
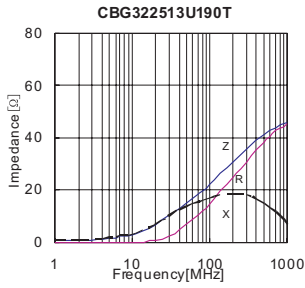


**鐵氧體疊層片式磁珠 (普通型)**
**FERRITE CHIP BEADS**
**3216 SERIES**


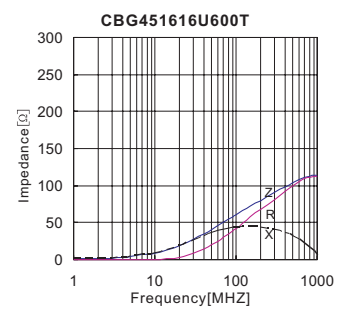
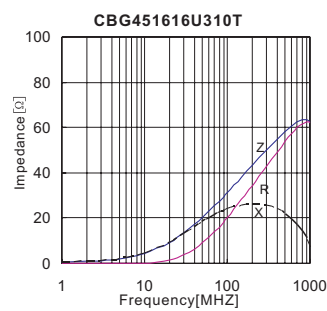
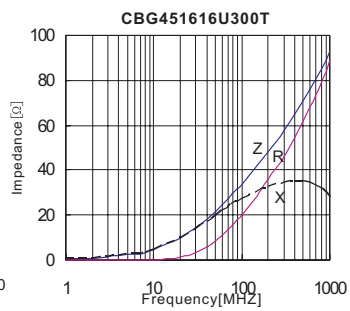
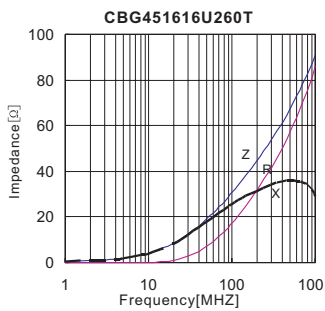


鐵氧體疊層片式磁珠 (普通型)  
FERRITE CHIP BEADS

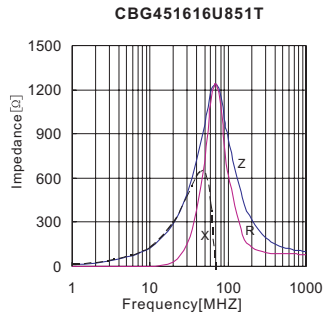
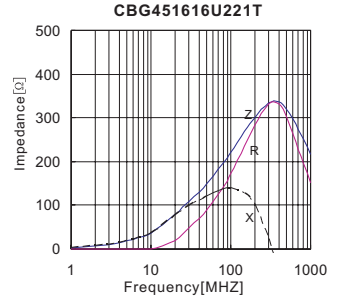
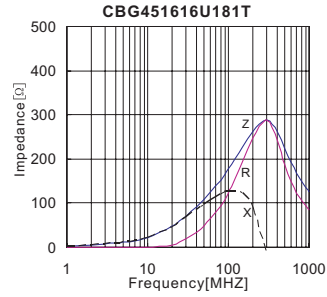
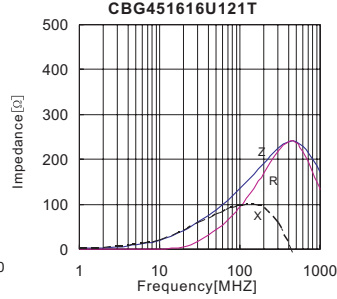
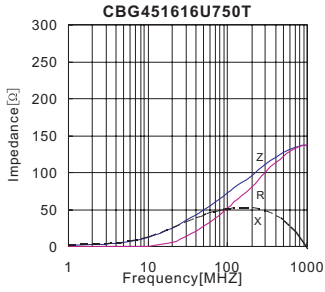
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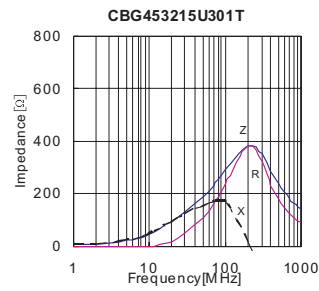
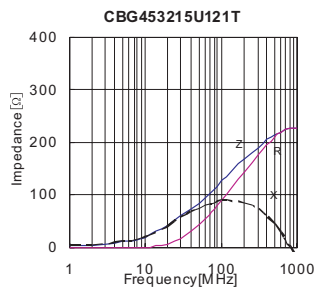
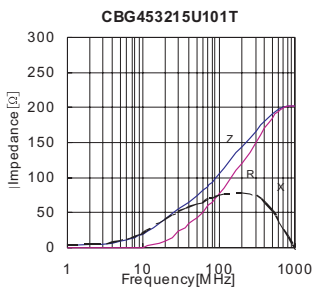
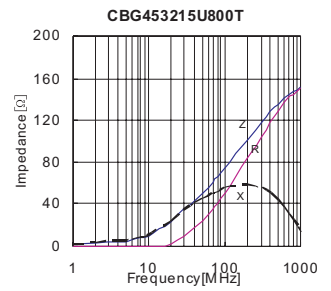
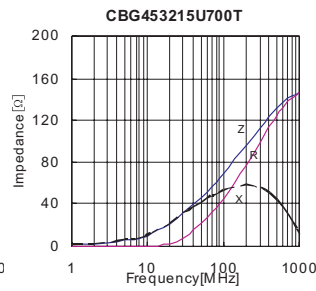
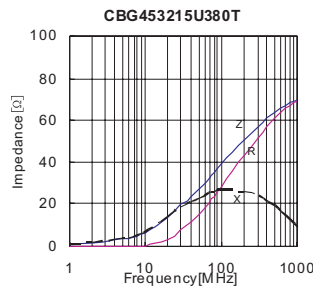
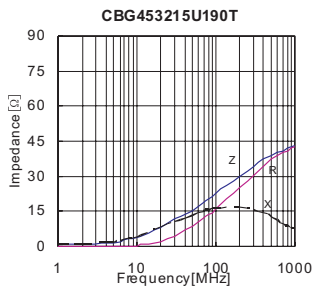
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■ 鐵氧體疊層片式磁珠 (普通型)  
FERRITE CHIP BEADS



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