

MULTILAYER FERRITE CHIP BEAD FOR ULTRA LARGE CURRENT

片式铁氧体超大电流磁珠



PUPB SERIES



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# Multilayer Ferrite Chip Bead for Ultra Large Current-PUPB

## Series

## 片式铁氧体超大电流磁珠-PUPB 系列



### INTRODUCTION AND CHARACTERISTICS 产品介绍及特性

| INTRODUCTION | 产品介绍 |
|--------------|------|
|--------------|------|

◆ A ferrite bead is a passive electric component that suppresses high frequency noise in electronic circuits. It is a specific type of electronic choke. Ferrite beads employ the dissipation of high frequency currents in a ferrite ceramic to build high frequency noise suppression devices. Multilayer Ferrite Chip Bead for Ultra Large Current is smaller DC resistance and large allowable current than PFPB series.

◆磁珠是一种被动元件，用来抑制电路中的高频噪声。磁珠是一种特别的扼流圈，其成份多半为铁氧体，利用其高频电流产生的热耗散来抑制高频噪声。片式铁氧体超大电流磁珠较 PFPB 有更小的直流电阻和更大的耐电流特性。

| CHARACTERISTICS | 特性 |
|-----------------|----|
|-----------------|----|

◆ Monolith structure for high reliability  
 ◆ Under the same size the multilayer chip beads produce higher impedance than plug-in beads  
 ◆ No cross coupling due to magnetic shield  
 ◆ Perfect shape for mounting with no directionality  
 ◆ Excellent solderability and high heat resistance for reflow soldering or wave soldering

◆ 积层独石结构、高可靠性  
 ◆ 在同样的尺寸下较插装磁珠有更高的阻抗值  
 ◆ 良好的磁屏蔽，无交叉耦合  
 ◆ 无引线结构，适合表面安装  
 ◆ 良好的焊接性，适合于回流焊或波峰焊

| APPLICATIONS | 应用产品 |
|--------------|------|
|--------------|------|

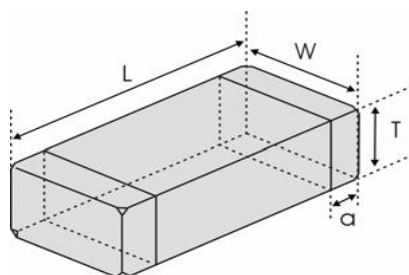
◆ Mother board, tablet PC, notebook, desktop computers and peripheral equipment  
 ◆ DSC, DVC, LCD Television, Set Top Box  
 ◆ Mobile phone, smart phone, PHD  
 ◆ Reduced noise suppression on digital product clock lines signal lines and suppression noise on circuit

◆ 主机板，平板电脑，笔记型，桌上型电脑及其周边设备  
 ◆ 数位相机，数位摄影机，液晶电视机，数位机上盒  
 ◆ 行动电话，智能手机，个人导航设备  
 ◆ 用于数据传输线、信号线。电源及回路部分的抗干扰

**PRODUCT IDENTIFICATION 产品型号**
**PUPB 1608 M 601 T R15**

① ② ③ ④ ⑤ ⑥

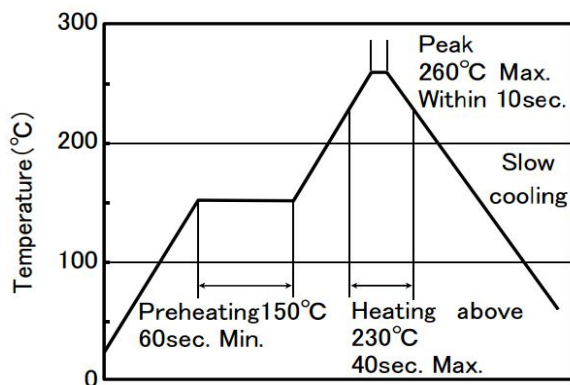
|                               |      |                                                                     |
|-------------------------------|------|---------------------------------------------------------------------|
| ①Product Series Code<br>产品系列码 | PUPB | Multilayer Ferrite Chip Bead for Ultra Large Current<br>片式铁氧体超大电流磁珠 |
| ②Size Code<br>尺寸码             | 1608 | 长×宽 (L×W) (mm)<br>1.6×0.8                                           |
| ③Material Code<br>材质代号        | --   | P M S                                                               |
| ④Nominal Impedance<br>阻抗      | 600  | 60 Ω                                                                |
|                               | 601  | 600 Ω                                                               |
| ⑤Packing<br>包装形式              | T    | Tape and Reel<br>编带                                                 |
| ⑥Rated Current<br>额定电流值       | 2R0  | 2000mA                                                              |
|                               | R15  | 150mA                                                               |

**SHAPE AND DIMENSIONS 外观尺寸**


| SIZE 尺寸    | L 长 mm    | W 宽 mm    | T 厚 mm   | a 银厚 mm   |
|------------|-----------|-----------|----------|-----------|
| 0603(0201) | 0.6±0.05  | 0.3±0.05  | 0.3±0.05 | 0.1~0.2   |
| 1005(0402) | 1.0±0.15  | 0.5±0.15  | 0.5±0.15 | 0.15~0.35 |
| 1608(0603) | 1.6±0.15  | 0.8±0.15  | 0.8±0.15 | 0.1~0.5   |
| 2012(0805) | 2.0±0.2   | 1.25±0.2  | 0.85±0.2 | 0.2~0.8   |
| 3216(1206) | 3.2±0.2   | 1.6±0.2   | 0.85±0.2 | 0.2~0.8   |
|            |           |           | 1.1±0.2  |           |
| 3225(1210) | 3.2±0.2   | 2.5±0.2   | 1.3±0.2  | 0.6~1.0   |
| 4030(1612) | 4.06±0.2  | 3.05±0.2  | 1.6±0.2  | 0.69~1.09 |
| 4516(1806) | 4.5±0.2   | 1.6±0.2   | 1.6±0.2  | 0.6~1.0   |
| 4532(1812) | 4.5±0.2   | 3.2±0.2   | 1.5±0.2  | 0.6~1.0   |
| 5650(2220) | 5.59±0.51 | 5.08±0.25 | 1.5±0.25 | 0.51~1.01 |
|            |           |           | 1.8±0.25 |           |
|            |           |           | 3.2±0.25 |           |
|            |           |           | 3.6±0.25 |           |
| 8530(3312) | 8.5±0.2   | 3.05±0.2  | 2.28±0.2 | 0.69~1.09 |

**STORAGE AND OPERATING CONDITIONS 储存及操作条件**

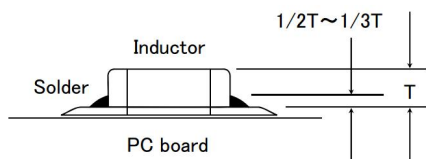
|                                        |                      |
|----------------------------------------|----------------------|
| Operating Temperature Range            | -55℃~+125℃           |
| Storage Temperature and Humidity Range | -10℃~+40℃,70%RH max. |

**RECOMMENDED SOLDERING CONDITION 建议焊锡方式**
**REFLOW SOLDERING 回流焊**


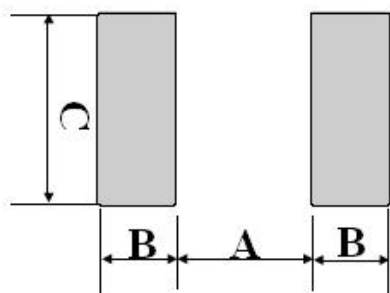
- ① Ceramic chip components should be preheated to within 100 to 130°C of the soldering.
- ② Assured to be reflow soldering for 2 times.

Caution:

1) The ideal condition is to have solder mass (fillet) controlled to 1/2 to 1/3 of the thickness of the inductor.



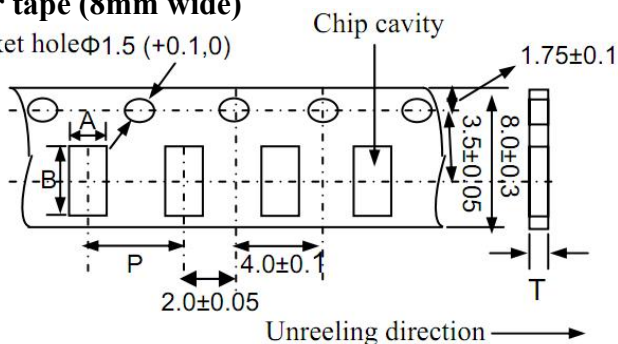
2) Because excessive dwell times can detrimentally affect solderability, soldering duration should be kept as close to recommended times as possible.

**RECOMMENDED LAND PATTERN 推荐的焊盘尺寸**


| Dimension (mm) | A (mm)    | B (mm)    | C (mm)    |
|----------------|-----------|-----------|-----------|
| 0603           | 0.2~0.3   | 0.2~0.3   | 0.3~0.35  |
| 1005           | 0.45~0.55 | 0.40~0.50 | 0.45~0.55 |
| 1608           | 0.6~0.8   | 0.6~0.8   | 0.6~0.8   |
| 2012           | 0.8~1.2   | 0.8~1.2   | 0.9~1.6   |
| 3216           | 1.8~2.5   | 1.0~1.5   | 1.2~2.0   |
| 3225           | 1.9~2.1   | 1.2~1.5   | 2.6~2.8   |
| 4030           | 1.6~2.3   | 1.8~2.3   | 3.0~3.4   |
| 4516           | 2.8~3.0   | 1.5~1.8   | 1.2~2.0   |
| 4532           | 2.8~3.0   | 1.5~1.8   | 3.3~3.6   |
| 5650           | 3.05      | 9.19      | 6.1       |
| 8530           | 6.48      | 13.08     | 4.06      |

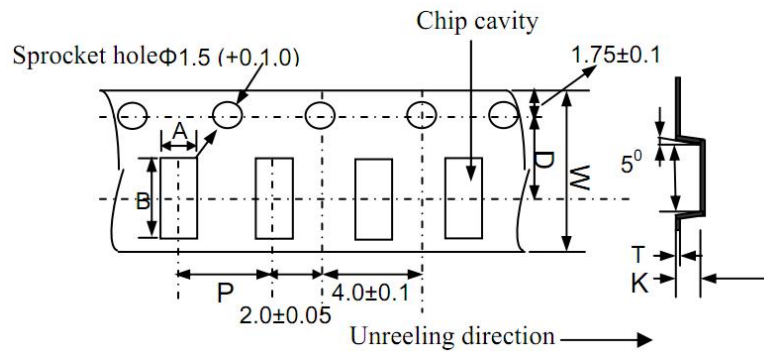
**PACKING STANDARD 包装标准**
**Taping Dimensions**
**◆ Paper tape (8mm wide)**

Sprocket hole  $\Phi 1.5 (+0.1, 0)$



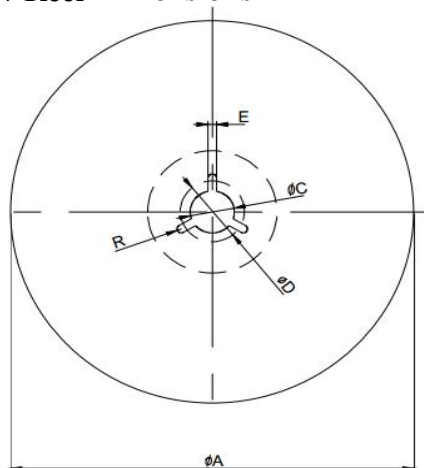
| Type     | Chip Thickness | A    | B    | P | T max. | Quantity (pcs/reel) |
|----------|----------------|------|------|---|--------|---------------------|
|          | (mm)           |      |      |   |        | ø178mm Reel         |
| PUPB0603 | 0.30           | 0.40 | 0.70 | 2 | 0.55   | 15000               |
| PUPB1005 | 0.50           | 0.65 | 1.15 | 2 | 0.80   | 10000               |
| PUPB1608 | 0.80           | 1.00 | 1.80 | 4 | 1.10   | 4000                |
| PUPB2012 | 0.85           | 1.50 | 2.30 | 4 | 1.10   | 4000                |
| PUPB3216 | 0.85           | 1.90 | 3.50 | 4 | 1.10   | 4000                |

### Embossed Tape(8mm and 12mm wide)



| Type     | Chip Thickness | W  | A    | B    | D   | P | K max. | T max. | Quantity (pcs/reel) |
|----------|----------------|----|------|------|-----|---|--------|--------|---------------------|
|          | (mm)           |    |      |      |     |   |        |        | ø178mm              |
| PUPB3216 | 1.10           | 8  | 1.88 | 3.5  | 3.5 | 4 | 1.27   | 0.30   | 3000                |
| PUPB3225 | 1.30           | 8  | 2.90 | 3.6  | 3.5 | 4 | 1.70   | 0.25   | 2000                |
| PUPB4516 | 1.60           | 12 | 1.90 | 4.9  | 5.5 | 4 | 1.93   | 0.24   | 2000                |
| PUPB4532 | 1.50           | 12 | 3.60 | 4.9  | 5.5 | 4 | 2.05   | 0.30   | 1000                |
| PUPB4030 | 1.60           | 12 | 3.4  | 4.5  | 5.5 | 8 | 1.8    | 0.32   | 4000(ø330mm)        |
| PUPB5650 | 1.5            | 12 | 5.4  | 5.95 | 5.5 | 4 | 2.28   | 0.33   | 2000(ø330mm)        |
|          | 1.8            | 12 | 5.4  | 5.95 | 5.5 | 4 | 2.28   | 0.33   | 2000(ø330mm)        |
|          | 3.0            | 12 | 5.4  | 5.95 | 5.5 | 4 | 3.42   | 0.33   | 2000(ø330mm)        |
|          | 3.2            | 12 | 5.4  | 5.95 | 5.5 | 4 | 3.42   | 0.33   | 2000(ø330mm)        |
| PUPB8530 | 2.2            | 12 | 3.33 | 8.92 | 5.5 | 4 | 2.77   | 0.36   | 2500(ø330mm)        |

### ◆ Reel Dimensions



| Symbol | ø178mm Reel | Ø330mm Reel |
|--------|-------------|-------------|
| A      | Ø178±2      | Ø330±2      |
| B      | Ø60±2       | Ø100±2      |
| C      | Ø13±0.8     | Ø13±0.8     |
| D      | Ø21±0.8     | Ø21±0.8     |
| E      | 2           | 2           |
| W8     | 10±1.5      | 10±1.5      |
| W12    | 14.5±1.5    | 14.5±1.5    |
| T      | 2±0.5       | 2±0.5       |
| R      | 1           | 1           |

## SPECIFICATIONS 规格特性

## PUPB 0603(0201) TYPE

| Part Number<br>型号 | Impedance<br>At 100MHz<br>阻抗 Z | DC Resistance<br>直流电阻<br>RDC | Rated Current<br>额定电流<br>Ir | Thickness<br>厚度 |
|-------------------|--------------------------------|------------------------------|-----------------------------|-----------------|
| Units 单位          | $\Omega \pm 25\%$              | $\Omega$ (Max. )             | mA (Max. )                  | mm              |
| PUPB0603M100T1R3  | 10                             | 0.03                         | 1300                        | 0.3±0.05        |
| PUPB0603M220T1R0  | 22                             | 0.065                        | 1000                        | 0.3±0.05        |
| PUPB0603M330T1R0  | 33                             | 0.07                         | 1000                        | 0.3±0.05        |
| PUPB0603M800T1R0  | 80                             | 0.12                         | 1000                        | 0.3±0.05        |
| PUPB0603M121TR85  | 120                            | 0.15                         | 850                         | 0.3±0.05        |

## PUPB 1005(0402) TYPE

| Part Number<br>型号 | Impedance<br>At 100MHz<br>阻抗 Z | DC Resistance<br>直流电阻<br>RDC | Rated Current<br>额定电流<br>Ir | Thickness<br>厚度 |
|-------------------|--------------------------------|------------------------------|-----------------------------|-----------------|
| Units 单位          | $\Omega \pm 25\%$              | $\Omega$ (Max. )             | mA (Max. )                  | mm              |
| PUPB1005M100T2R0  | 0~15                           | 0.045                        | 2000                        | 0.5±0.15        |
| PUPB1005M100T3R1  | 0~15                           | 0.018                        | 3100                        | 0.5±0.15        |
| PUPB1005M300T1R7  | 30                             | 0.05                         | 1700                        | 0.5±0.15        |
| PUPB1005M300T2R2  | 30                             | 0.035                        | 2200                        | 0.5±0.15        |
| PUPB1005M600T1R5  | 60                             | 0.075                        | 1500                        | 0.5±0.15        |
| PUPB1005M800T1R5  | 80                             | 0.07                         | 1500                        | 0.5±0.15        |
| PUPB1005M800T2R3  | 80                             | 0.038                        | 2300                        | 0.5±0.15        |
| PUPB1005M121T1R3  | 120                            | 0.09                         | 1300                        | 0.5±0.15        |
| PUPB1005M121T2R0  | 120                            | 0.50                         | 2000                        | 0.5±0.15        |
| PUPB1005M221TR90  | 220                            | 0.16                         | 900                         | 0.5±0.15        |

## PUPB 1608(0603) TYPE

| Part Number<br>型号 | Impedance<br>At 100MHz<br>阻抗 Z | DC Resistance<br>直流电阻<br>RDC | Rated Current<br>额定电流<br>Ir | Thickness<br>厚度 |
|-------------------|--------------------------------|------------------------------|-----------------------------|-----------------|
| Units 单位          | $\Omega \pm 25\%$              | $\Omega$ (Max. )             | mA (Max. )                  | mm              |
| PUPB1608P220T6R0  | 22                             | 0.01                         | 6000                        | 0.8±0.15        |
| PUPB1608P280T6R0  | 28                             | 0.01                         | 6000                        | 0.8±0.15        |
| PUPB1608P700T4R0  | 70                             | 0.02                         | 4000                        | 0.8±0.15        |
| PUPB1608P221T2R2  | 220                            | 0.05                         | 2200                        | 0.8±0.15        |
| PUPB1608P331T1R5  | 330                            | 0.07                         | 1500                        | 0.8±0.15        |
| PUPB1608P391T1R5  | 390                            | 0.12                         | 1500                        | 0.8±0.15        |
| PUPB1608P471T1R5  | 470                            | 0.12                         | 1500                        | 0.8±0.15        |
| PUPB1608P601T1R3  | 600                            | 0.15                         | 1300                        | 0.8±0.15        |
| PUPB1608M300T5R0  | 30                             | 0.01                         | 5000                        | 0.8±0.15        |
| PUPB1608M600T3R5  | 60                             | 0.02                         | 3500                        | 0.8±0.15        |
| PUPB1608M101T3R0  | 100                            | 0.03                         | 3000                        | 0.8±0.15        |
| PUPB1608M181T2R2  | 180                            | 0.05                         | 2200                        | 0.8±0.15        |
| PUPB1608M221T2R2  | 220                            | 0.05                         | 2200                        | 0.8±0.15        |

|                  |     |      |      |          |
|------------------|-----|------|------|----------|
| PUPB1608M331T1R7 | 330 | 0.08 | 1700 | 0.8±0.15 |
| PUPB1608M601T1R0 | 600 | 0.15 | 1000 | 0.8±0.15 |

**SPECIFICATIONS 规格特性**
**PUPB2012(0805) TYPE**

| Part Number<br>型号 | Impedance<br>At 100MHz<br>阻抗 Z | DC Resistance<br>直流电阻<br>RDC | Rated Current<br>额定电流<br>Ir | Thickness<br>厚度 |
|-------------------|--------------------------------|------------------------------|-----------------------------|-----------------|
| Units 单位          | $\Omega \pm 25\%$              | $\Omega$ (Max. )             | mA (Max. )                  | mm              |
| PUPB2012P220T6R0  | 22                             | 0.01                         | 6000                        | 0.85±0.2        |
| PUPB2012P300T6R0  | 30                             | 0.01                         | 6000                        | 0.85±0.2        |
| PUPB2012P600T4R0  | 60                             | 0.02                         | 4000                        | 0.85±0.2        |
| PUPB2012P800T4R0  | 80                             | 0.02                         | 4000                        | 0.85±0.2        |
| PUPB2012P221T3R0  | 220                            | 0.04                         | 3000                        | 0.85±0.2        |
| PUPB2012M300T6R0  | 30                             | 0.01                         | 6000                        | 0.85±0.2        |
| PUPB2012M121T4R0  | 120                            | 0.02                         | 4000                        | 0.85±0.2        |
| PUPB2012M221T3R0  | 220                            | 0.04                         | 3000                        | 0.85±0.2        |
| PUPB2012M331T2R5  | 330                            | 0.05                         | 2500                        | 0.85±0.2        |
| PUPB2012M601T2R0  | 600                            | 0.09                         | 2000                        | 0.85±0.2        |
| PUPB2012M102T1R5  | 1000                           | 0.12                         | 1500                        | 0.85±0.2        |

**PUPB3216(1206) TYPE**

| Part Number<br>型号 | Impedance<br>At 100MHz<br>阻抗 Z | DC Resistance<br>直流电阻<br>RDC | Rated Current<br>额定电流<br>Ir | Thickness<br>厚度     |
|-------------------|--------------------------------|------------------------------|-----------------------------|---------------------|
| Units 单位          | $\Omega \pm 25\%$              | $\Omega$ (Max. )             | mA (Max. )                  | mm                  |
| PUPB3216M400T6R0  | 40                             | 0.006                        | 6000                        | 0.85±0.2<br>1.1±0.2 |
| PUPB3216M500T4R0  | 50                             | 0.03                         | 4000                        |                     |
| PUPB3216M500T6R0  | 50                             | 0.006                        | 6000                        |                     |
| PUPB3216M600T6R0  | 60                             | 0.006                        | 6000                        |                     |
| PUPB3216M700T4R0  | 70                             | 0.03                         | 4000                        |                     |
| PUPB3216M700T6R0  | 70                             | 0.006                        | 6000                        |                     |
| PUPB3216M800T4R0  | 80                             | 0.03                         | 4000                        |                     |
| PUPB3216M800T6R0  | 80                             | 0.006                        | 6000                        |                     |
| PUPB3216M101T3R0  | 100                            | 0.04                         | 3000                        |                     |
| PUPB3216M121T5R0  | 120                            | 0.025                        | 5000                        |                     |
| PUPB3216M221T3R0  | 220                            | 0.04                         | 3000                        |                     |
| PUPB3216M301T3R0  | 300                            | 0.05                         | 3000                        |                     |
| PUPB3216M401T3R0  | 400                            | 0.05                         | 3000                        |                     |
| PUPB3216M501T3R0  | 500                            | 0.05                         | 3000                        |                     |
| PUPB3216M601T3R0  | 600                            | 0.05                         | 3000                        |                     |
| PUPB3216M751T3R0  | 750                            | 0.05                         | 3000                        |                     |
| PUPB3216M801T2R0  | 800                            | 0.08                         | 2000                        |                     |
| PUPB3216M102T1R0  | 1000                           | 0.18                         | 1000                        |                     |

## SPECIFICATIONS 规格特性

## PUPB3225(1210) TYPE

| Part Number<br>型号 | Impedance<br>At 100MHz<br>阻抗 Z | DC Resistance<br>直流电阻<br>RDC | Rated Current<br>额定电流<br>Ir | Thickness<br>厚度 |
|-------------------|--------------------------------|------------------------------|-----------------------------|-----------------|
| Units 单位          | $\Omega \pm 25\%$              | $\Omega$ (Max. )             | mA (Max. )                  | mm              |
| PUPB3225M190T6R0  | 19                             | 0.006                        | 6000                        | $1.3 \pm 0.2$   |
| PUPB3225M310T6R0  | 31                             | 0.006                        | 6000                        | $1.3 \pm 0.2$   |
| PUPB3225M500T6R0  | 50                             | 0.006                        | 6000                        | $1.3 \pm 0.2$   |
| PUPB3225M600T6R0  | 60                             | 0.006                        | 6000                        | $1.3 \pm 0.2$   |
| PUPB3225M800T4R0  | 80                             | 0.03                         | 4000                        | $1.3 \pm 0.2$   |
| PUPB3225M121T3R0  | 120                            | 0.06                         | 3000                        | $1.3 \pm 0.2$   |
| PUPB3225M181T3R0  | 180                            | 0.06                         | 3000                        | $1.3 \pm 0.2$   |
| PUPB3225M221T3R0  | 220                            | 0.06                         | 3000                        | $1.3 \pm 0.2$   |
| PUPB3225M301T3R0  | 300                            | 0.06                         | 3000                        | $1.3 \pm 0.2$   |
| PUPB3225M501T3R0  | 500                            | 0.08                         | 3000                        | $1.3 \pm 0.2$   |
| PUPB3225M601T3R0  | 600                            | 0.08                         | 3000                        | $1.3 \pm 0.2$   |
| PUPB3225M751T2R0  | 750                            | 0.12                         | 2000                        | $1.3 \pm 0.2$   |

## PUPB4030(1612) TYPE

| Part Number<br>型号 | Impedance<br>At 100MHz<br>阻抗 Z | DC Resistance<br>直流电阻<br>RDC | Rated Current<br>额定电流<br>Ir | Thickness<br>厚度 |
|-------------------|--------------------------------|------------------------------|-----------------------------|-----------------|
| Units 单位          | $\Omega \pm 25\%$              | $\Omega$ (Max. )             | mA (Max. )                  | mm              |
| PUPB4030M300T10R0 | 30                             | 0.004                        | 10000                       | $1.6 \pm 0.2$   |
| PUPB4030M400T10R0 | 40                             | 0.004                        | 10000                       | $1.6 \pm 0.2$   |
| PUPB4030M560T10R0 | 56                             | 0.004                        | 10000                       | $1.6 \pm 0.2$   |
| PUPB4030P300T10R0 | 30                             | 0.004                        | 10000                       | $1.6 \pm 0.2$   |
| PUPB4030P400T10R0 | 40                             | 0.004                        | 10000                       | $1.6 \pm 0.2$   |
| PUPB4030P560T10R0 | 56                             | 0.004                        | 10000                       | $1.6 \pm 0.2$   |

## PUPB4516(1806) TYPE

| Part Number<br>型号 | Impedance<br>At 100MHz<br>阻抗 Z | DC Resistance<br>直流电阻<br>RDC | Rated Current<br>额定电流<br>Ir | Thickness<br>厚度 |
|-------------------|--------------------------------|------------------------------|-----------------------------|-----------------|
| Units 单位          | $\Omega \pm 25\%$              | $\Omega$ (Max. )             | mA (Max. )                  | mm              |
| PUPB4516M500T6R0  | 50                             | 0.006                        | 6000                        | $1.6 \pm 0.2$   |
| PUPB4516M600T6R0  | 60                             | 0.006                        | 6000                        | $1.6 \pm 0.2$   |
| PUPB4516M800T4R0  | 80                             | 0.025                        | 4000                        | $1.6 \pm 0.2$   |
| PUPB4516M121T3R0  | 120                            | 0.035                        | 3000                        | $1.6 \pm 0.2$   |
| PUPB4516M801T2R0  | 800                            | 0.12                         | 2000                        | $1.6 \pm 0.2$   |
| PUPB4516M102T1R5  | 1000                           | 0.15                         | 1500                        | $1.6 \pm 0.2$   |



**SPECIFICATIONS 规格特性**
**PUPB4532(1812) TYPE**

| Part Number<br>型号 | Impedance<br>At 100MHz<br>阻抗 Z | DC Resistance<br>直流电阻<br>RDC | Rated Current<br>额定电流<br>Ir | Thickness<br>厚度 |
|-------------------|--------------------------------|------------------------------|-----------------------------|-----------------|
| Units 单位          | $\Omega \pm 25\%$              | $\Omega$ (Max. )             | mA (Max. )                  | mm              |
| PUPB4532M600T6R0  | 60                             | 0.006                        | 6000                        | 1.5±0.2         |
| PUPB4532M800T6R0  | 80                             | 0.006                        | 6000                        | 1.5±0.2         |
| PUPB4532M101T8R0  | 100                            | 0.005                        | 8000                        | 1.5±0.2         |
| PUPB4532M121T3R0  | 120                            | 0.02                         | 3000                        | 1.5±0.2         |
| PUPB4532M181T3R0  | 180                            | 0.025                        | 3000                        | 1.5±0.2         |
| PUPB4532M221T3R0  | 220                            | 0.035                        | 3000                        | 1.5±0.2         |
| PUPB4532M301T3R0  | 300                            | 0.035                        | 3000                        | 1.5±0.2         |
| PUPB4532M501T3R0  | 500                            | 0.05                         | 3000                        | 1.5±0.2         |
| PUPB4532M601T3R0  | 600                            | 0.05                         | 3000                        | 1.5±0.2         |
| PUPB4532M681T4R0  | 680                            | 0.03                         | 4000                        | 1.5±0.2         |
| PUPB4532M132T3R0  | 1300                           | 0.06                         | 3000                        | 1.5±0.2         |

**PUPB 5650(2220) TYPE**

| Part Number<br>型号 | Impedance<br>At 100MHz<br>阻抗 Z | DC Resistance<br>直流电阻<br>RDC | Rated Current<br>额定电流<br>Ir | Thickness<br>厚度 |
|-------------------|--------------------------------|------------------------------|-----------------------------|-----------------|
| Units 单位          | $\Omega \pm 25\%$              | $\Omega$ (Max. )             | mA (Max. )                  | mm              |
| PUPB5650M171T4R0  | 170                            | 0.03                         | 4000                        | 1.5±0.25        |
| PUPB5650M101T6R0  | 100                            | 0.006                        | 6000                        | 1.8±0.25        |
| PUPB5650M151T5R0  | 150                            | 0.015                        | 5000                        | 1.8±0.25        |
| PUPB5650M181T5R0  | 180                            | 0.02                         | 5000                        | 1.8±0.25        |
| PUPB5650M251T4R0  | 250                            | 0.015                        | 4000                        | 1.8±0.25        |
| PUPB5650M271T4R0  | 270                            | 0.035                        | 4000                        | 3.2±0.25        |
| PUPB5650M401T4R5  | 400                            | 0.03                         | 4500                        | 3.2±0.25        |
| PUPB5650M801T8R0  | 800                            | 0.01                         | 8000                        | 3.6±0.25        |

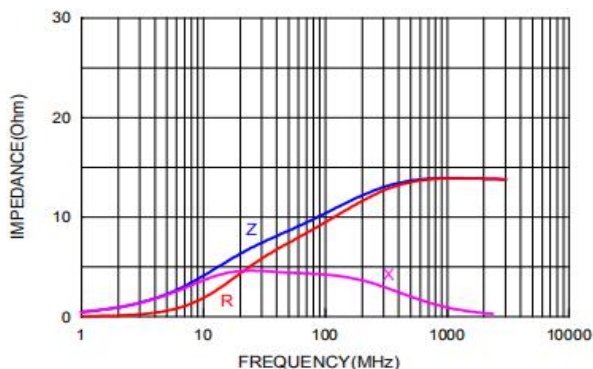
**PUPB 8530(3312) TYPE**

| Part Number<br>型号 | Impedance<br>At 100MHz<br>阻抗 Z | DC Resistance<br>直流电阻<br>RDC | Rated Current<br>额定电流<br>Ir | Thickness<br>厚度 |
|-------------------|--------------------------------|------------------------------|-----------------------------|-----------------|
| Units 单位          | $\Omega \pm 25\%$              | $\Omega$ (Max. )             | mA (Max. )                  | mm              |
| PUPB8530M101T10R0 | 100                            | 0.004                        | 10000                       | 2.2±0.25        |

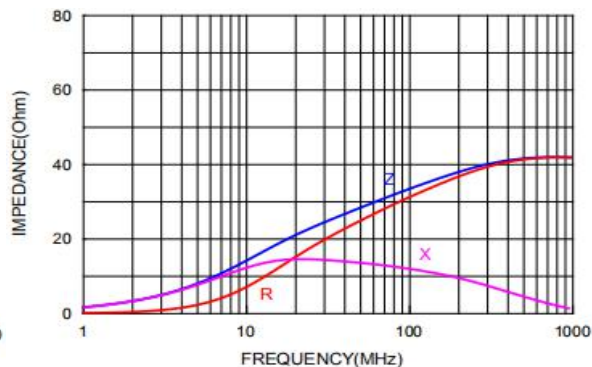
## TYPICAL ELECTRICAL CHARACTERISTICS 典型电气特性

## Z, R, X vs. FREQUENCY CHARACTERISTICS

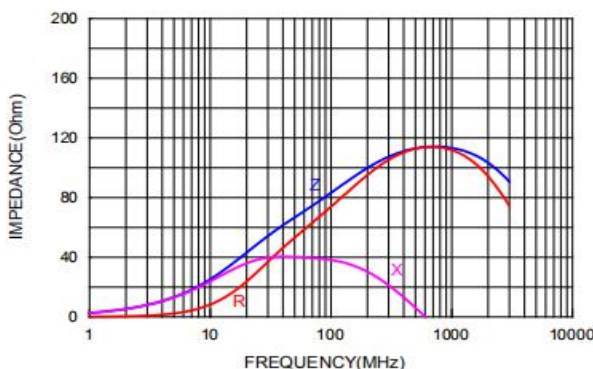
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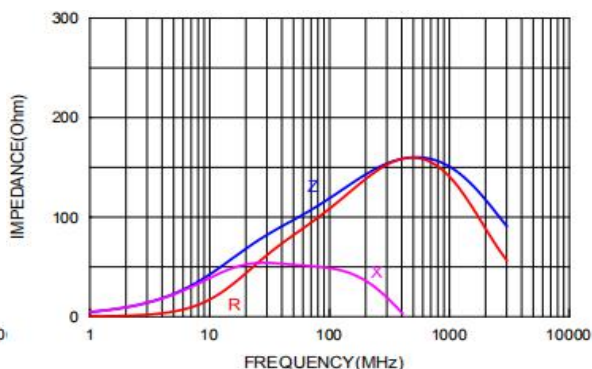
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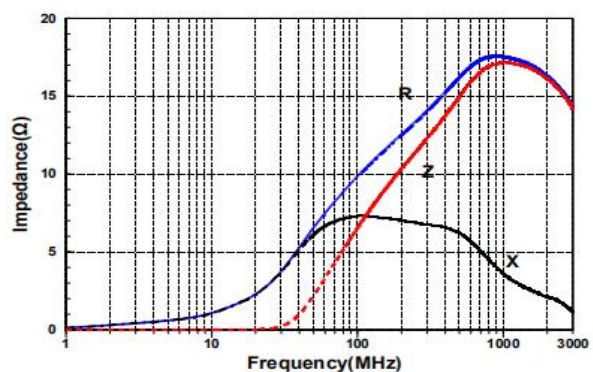
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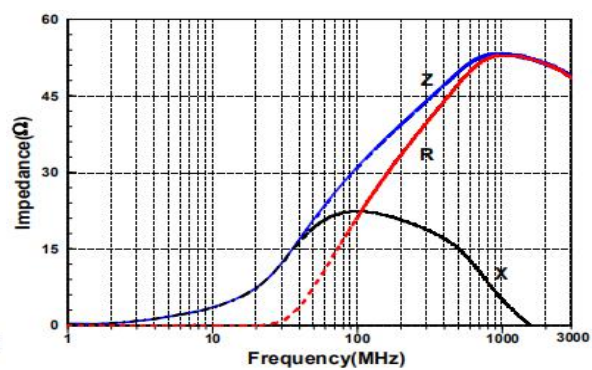
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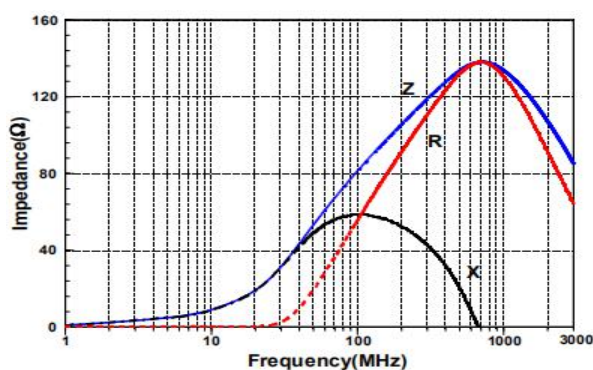
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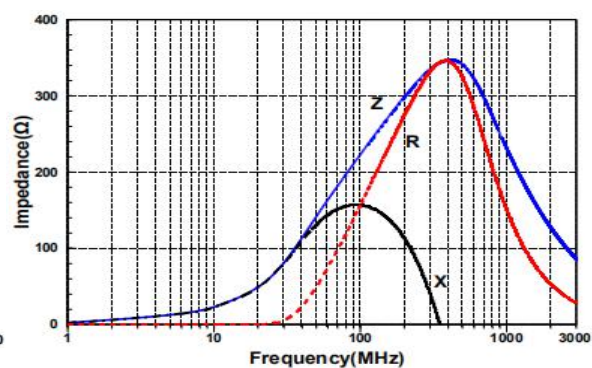
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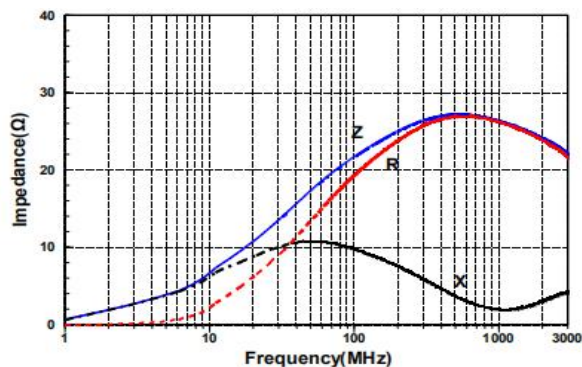
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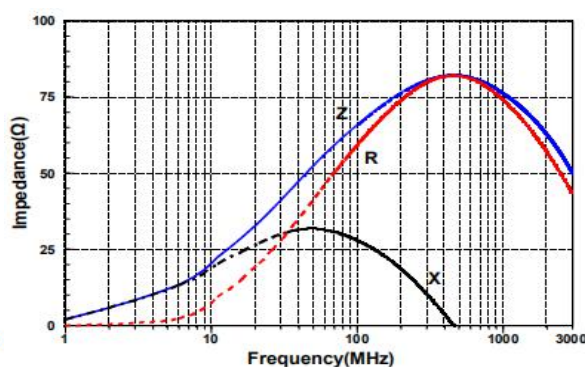
## TYPICAL ELECTRICAL CHARACTERISTICS 典型电气特性

## Z, R, X vs. FREQUENCY CHARACTERISTICS

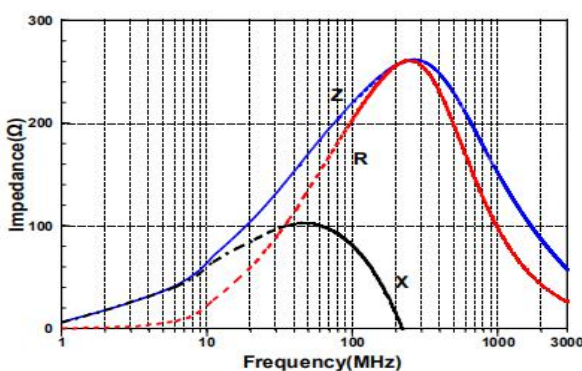
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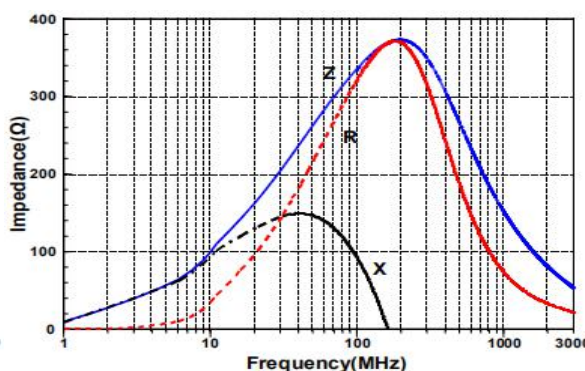
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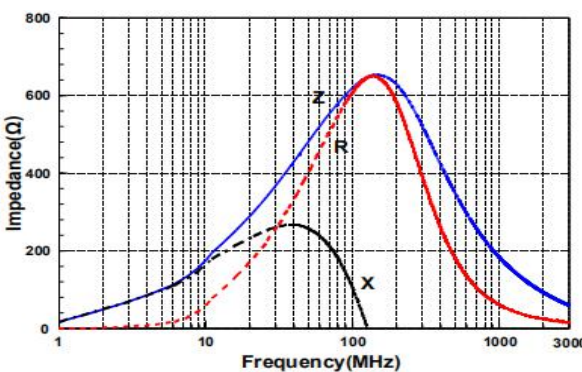
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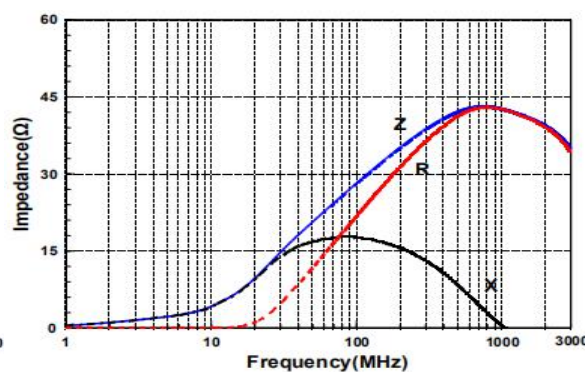
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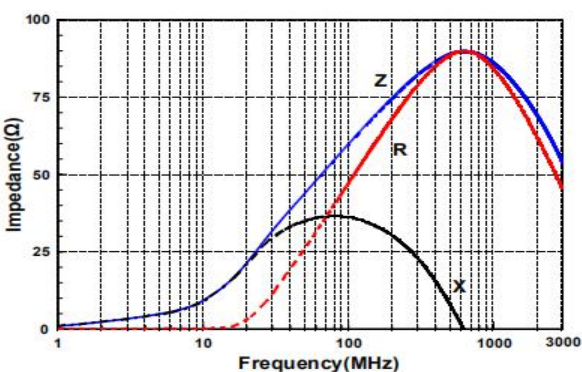
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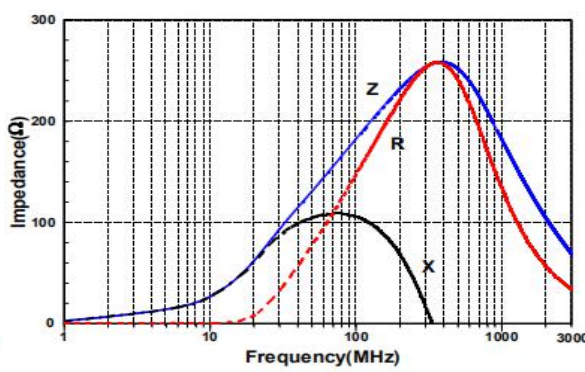
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PUPB1608M600T3R5



PUPB1608M181T2R2

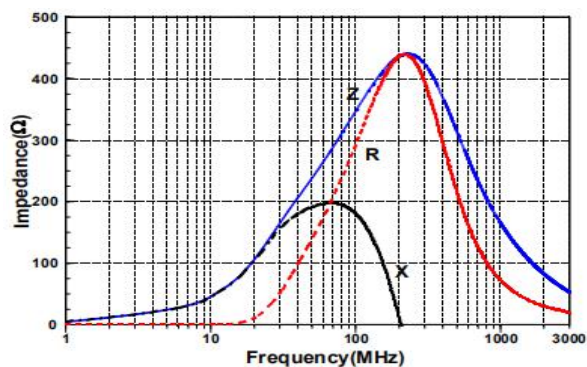




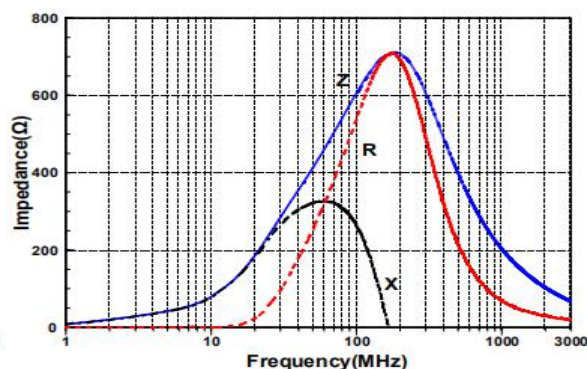
TYPICAL ELECTRICAL CHARACTERISTICS 典型电气特性

Z, R, X vs. FREQUENCY CHARACTERISTICS

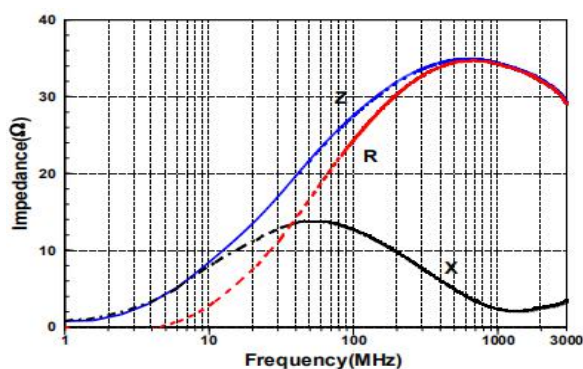
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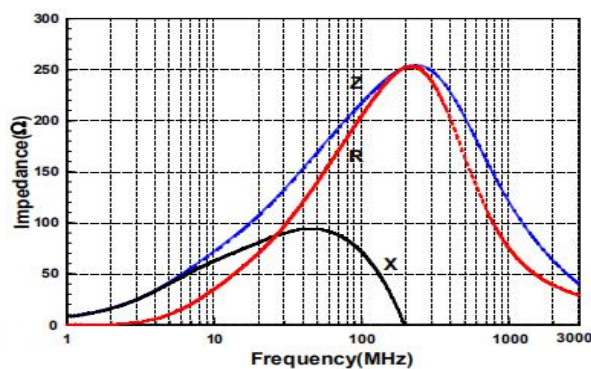
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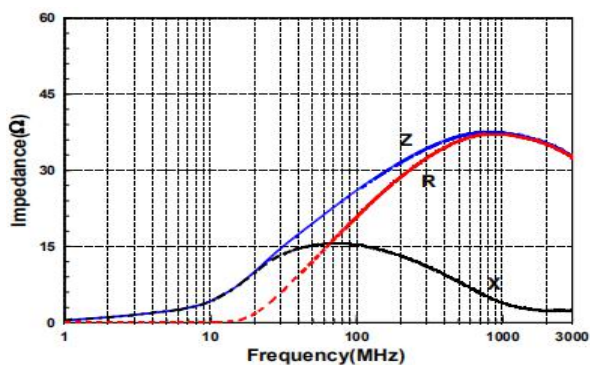
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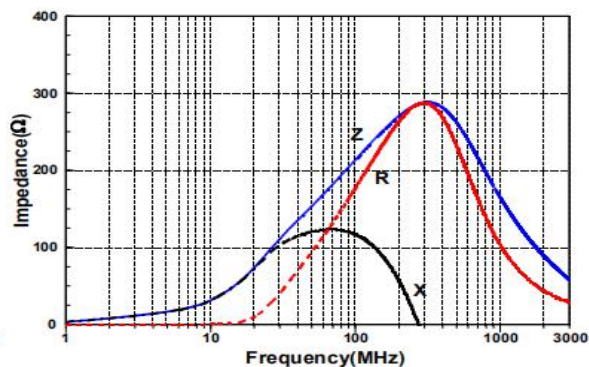
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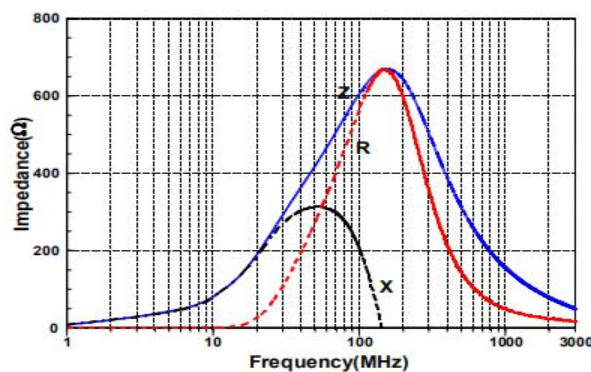
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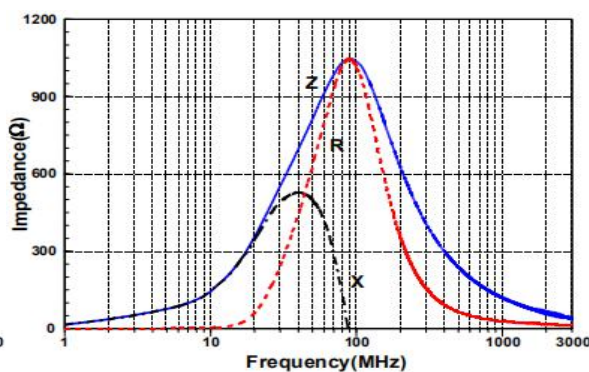
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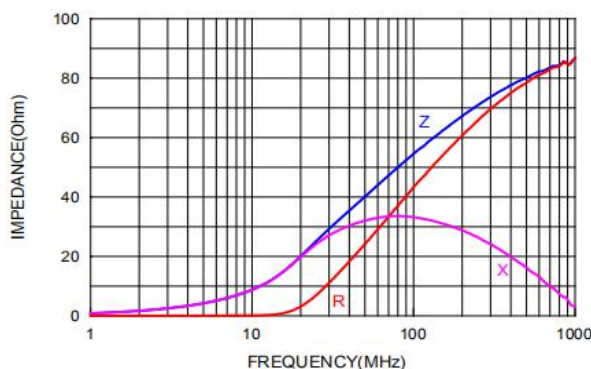
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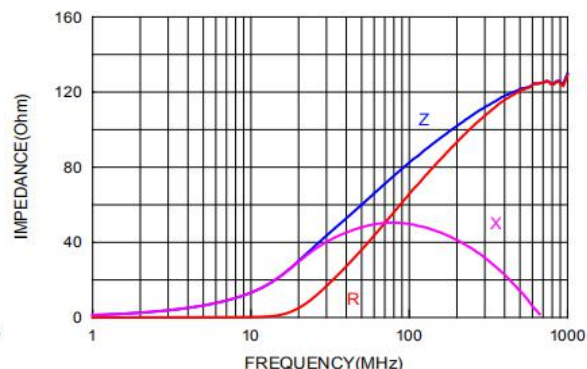
## TYPICAL ELECTRICAL CHARACTERISTICS 典型电气特性

## Z, R, X vs. FREQUENCY CHARACTERISTICS

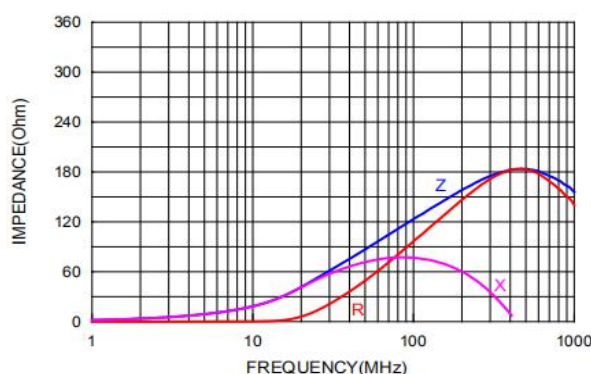
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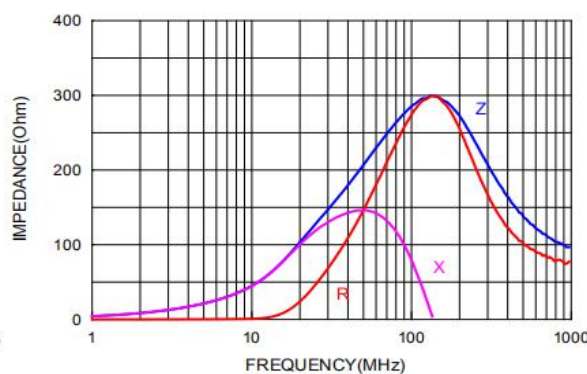
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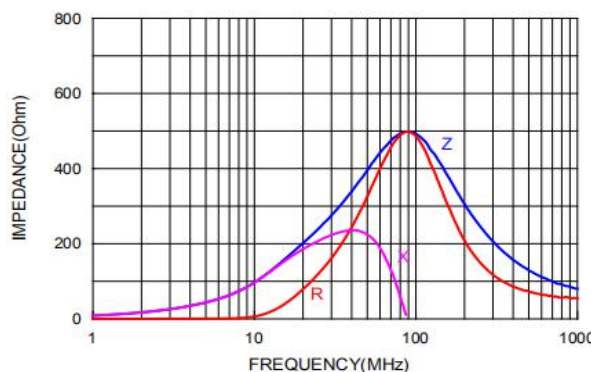
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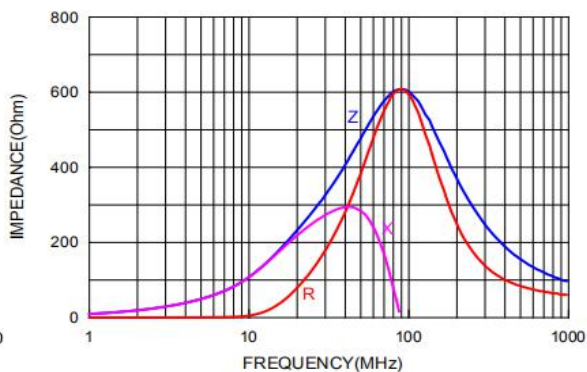
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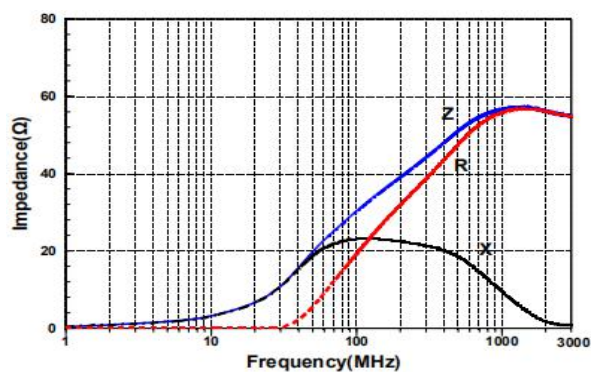
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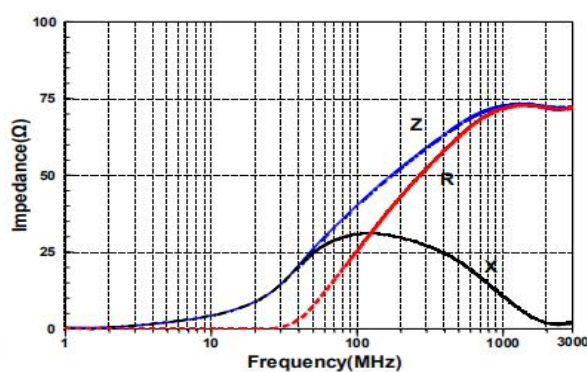
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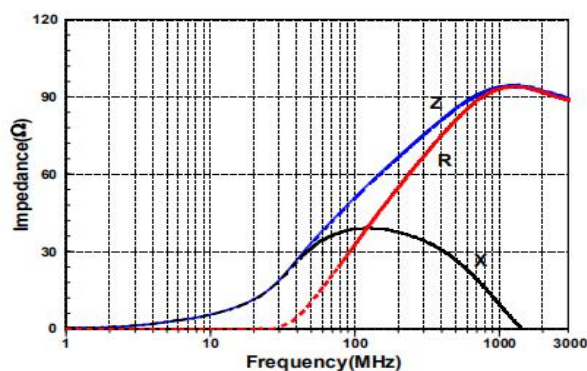




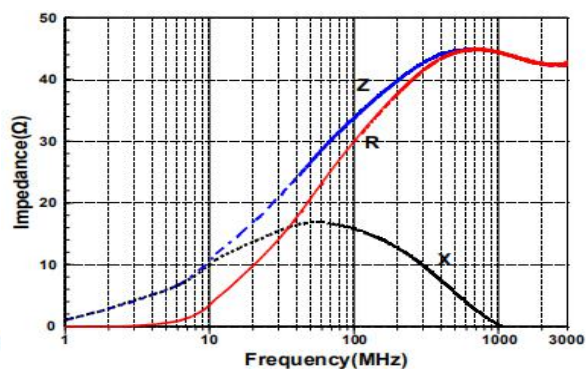
## TYPICAL ELECTRICAL CHARACTERISTICS 典型电气特性

## Z, R, X vs. FREQUENCY CHARACTERISTICS

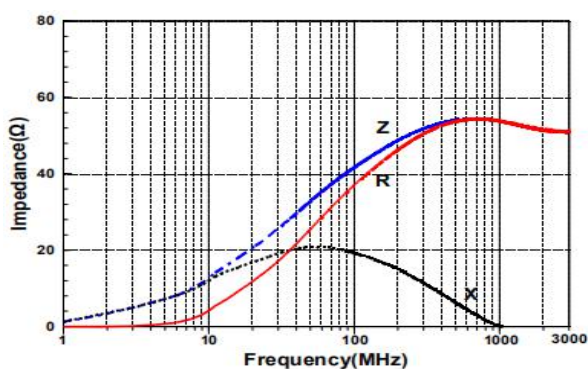
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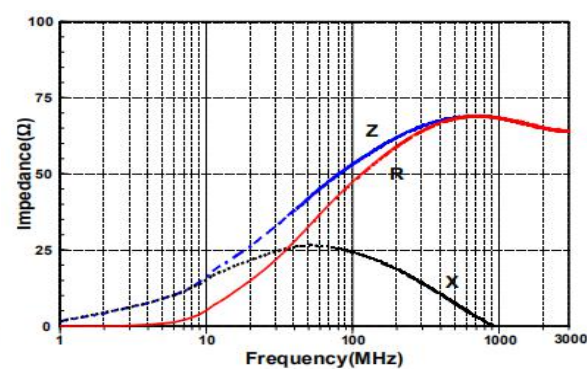
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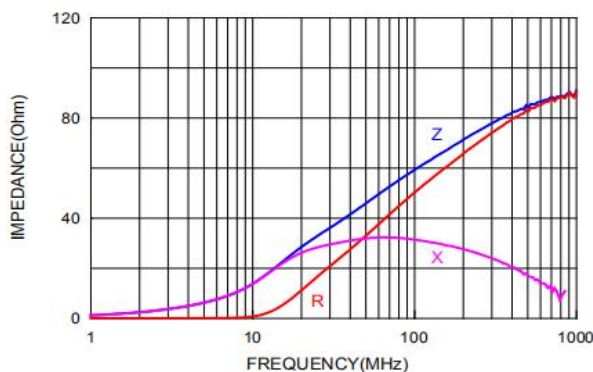
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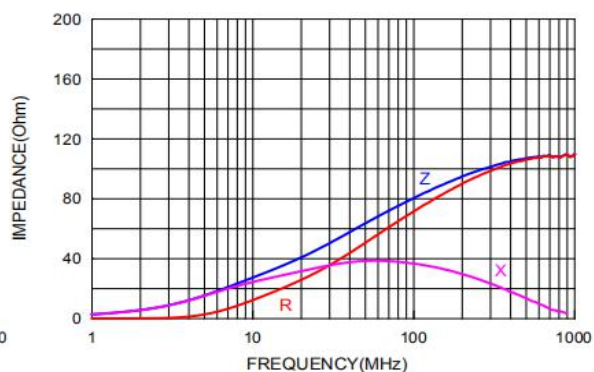
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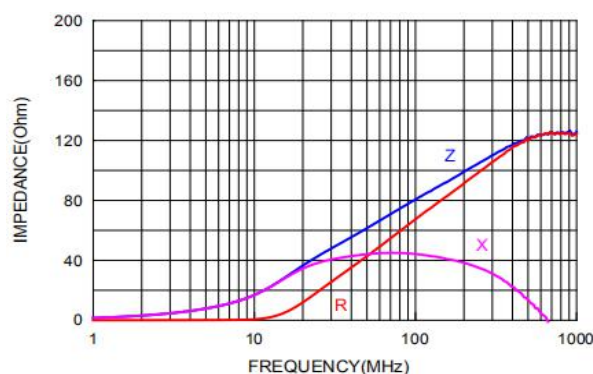
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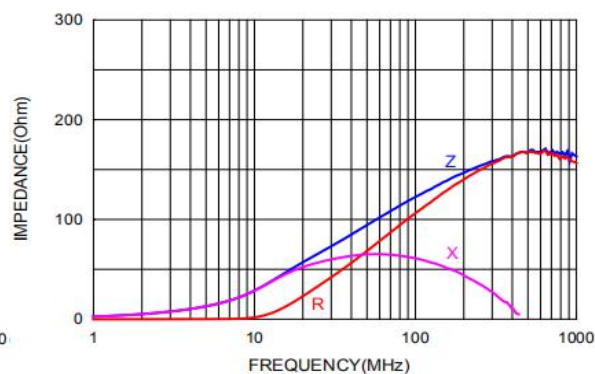
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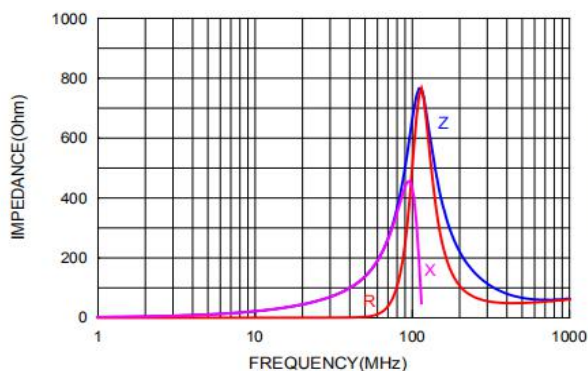
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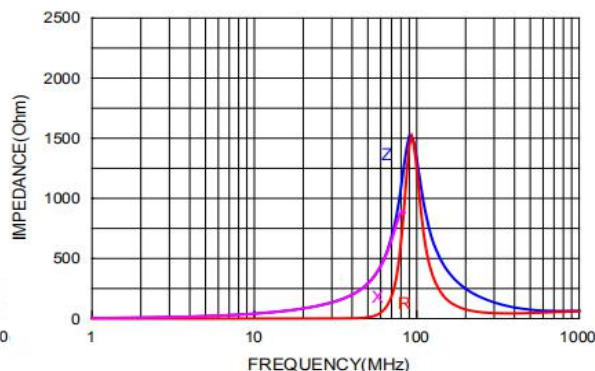
## TYPICAL ELECTRICAL CHARACTERISTICS 典型电气特性

## Z, R, X vs. FREQUENCY CHARACTERISTICS

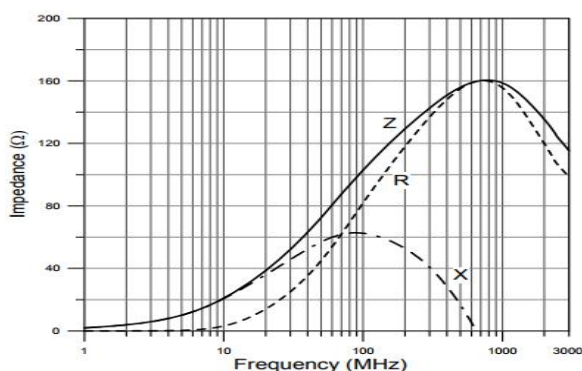
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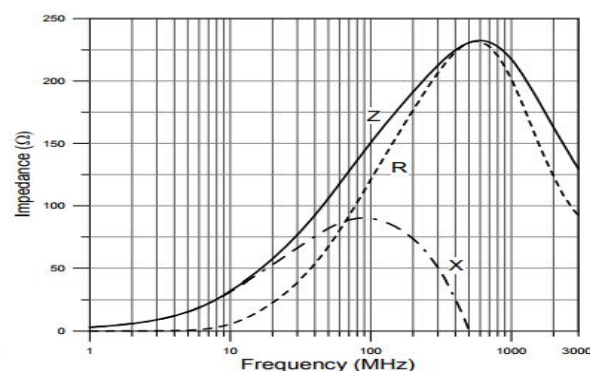
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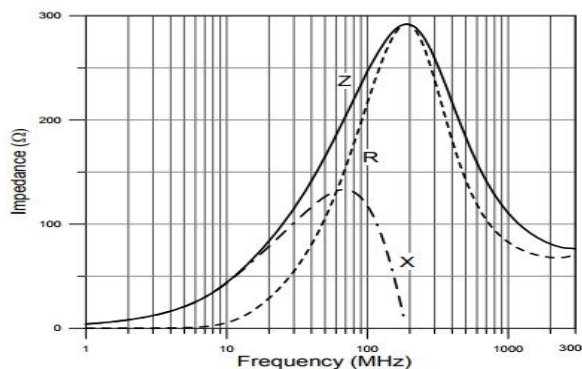
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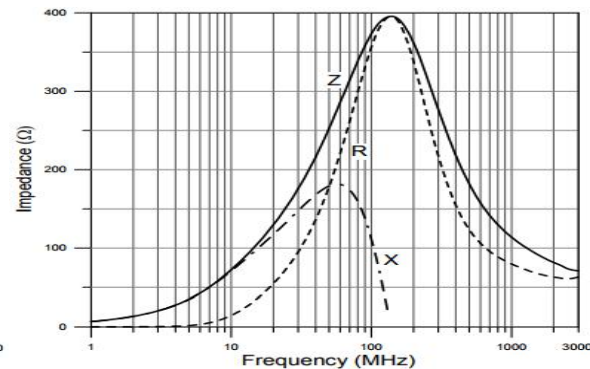
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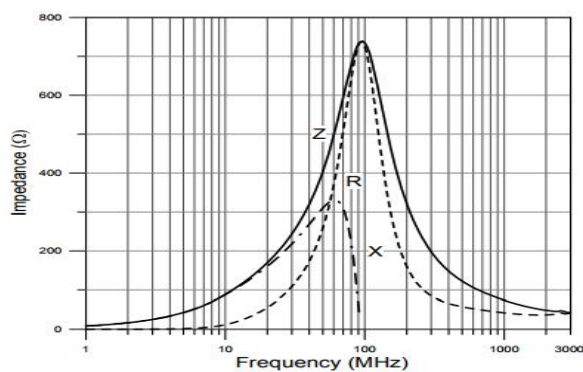
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