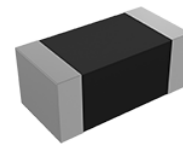


# Multilayer Chip Ferrite Bead – GZ-C Series

Operating Temp. : -55°C ~ +125°C



## FEATURES

- Internal silver printed layers and magnetic shielded structures to minimize crosstalk
- Can be used in a wide range of frequency (from dozens of MHz to hundreds of MHz) to suppress EMI
- Smaller DC resistance and large rate current than GZ series

## APPLICATIONS

- Noise suppression for low speed signal of electric equipments such as computers and peripheral devices, DVD cameras, LCD TVs, communication equipments, OA equipments, etc.

## PRODUCT IDENTIFICATION

**GZ**

①

|      |                                   |
|------|-----------------------------------|
| Type |                                   |
| GZ   | Chip Ferrite Bead for General Use |

**1005**

②

**D**

③

**121**

④

|                                |         |
|--------------------------------|---------|
| External Dimensions (LxW) (mm) |         |
| 0603 [0201]                    | 0.6x0.3 |
| 1005 [0402]                    | 1.0x0.5 |
| 1608 [0603]                    | 1.6x0.8 |

**C**

⑤

|              |  |
|--------------|--|
| Feature Code |  |
| C            |  |

**T**

⑥

|         |             |
|---------|-------------|
| Packing |             |
| T       | Tape & Reel |

**F**

⑦

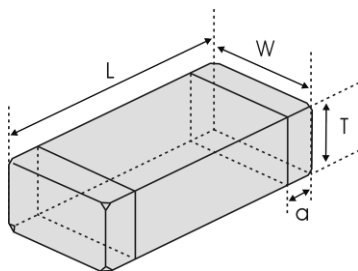
|               |  |
|---------------|--|
| Material Code |  |
| D, E, U       |  |

|                                   |  |
|-----------------------------------|--|
| Hazardous Substance Free Products |  |
| F                                 |  |

④

|                   |               |
|-------------------|---------------|
| Nominal Impedance |               |
| Example           | Nominal Value |
| 400               | 40Ω           |
| 121               | 120Ω          |
| 102               | 1000Ω         |

## SHAPE AND DIMENSIONS



Unit: mm [inch]

| Type             | L                       | W                       | T                       | a                        |
|------------------|-------------------------|-------------------------|-------------------------|--------------------------|
| GZ0603<br>[0201] | 0.6±0.05<br>[.024±.002] | 0.3±0.05<br>[.012±.002] | 0.3±0.05<br>[.012±.002] | 0.15±0.05<br>[.006±.002] |
| GZ1005<br>[0402] | 1.0±0.15<br>[.039±.006] | 0.5±0.15<br>[.020±.006] | 0.5±0.15<br>[.020±.006] | 0.25±0.1<br>[.010±.004]  |
| GZ1608<br>[0603] | 1.6±0.15<br>[.063±.006] | 0.8±0.15<br>[.031±.006] | 0.8±0.15<br>[.031±.006] | 0.3±0.2<br>[.012±.008]   |

## SPECIFICATIONS

### GZ0603-C TYPE

| Part Number   | Impedance | Z Test Frequency | Max. DC Resistance | Max. Rated Current | Thickness               |
|---------------|-----------|------------------|--------------------|--------------------|-------------------------|
| Units         | $\Omega$  | MHz              | $\Omega$           | mA                 | mm [inch]               |
| Symbol        | Z         | Freq.            | DCR                | I <sub>r</sub>     | T                       |
| GZ0603D600CTF | 60±25%    | 100              | 0.3                | 200                | 0.3±0.05<br>[.012±.002] |
| GZ0603D800CTF | 80±25%    | 100              | 0.4                | 200                |                         |
| GZ0603D121CTF | 120±25%   | 100              | 0.5                | 200                |                         |
| GZ0603D241CTF | 240±25%   | 100              | 0.8                | 200                |                         |
| GZ0603D601CTF | 600±25%   | 100              | 1.5                | 200                |                         |
| GZ0603D102CTF | 1000±25%  | 100              | 2.0                | 100                |                         |

### GZ1005-C TYPE

| Part Number   | Impedance | Z Test Frequency | Max. DC Resistance | Max. Rated Current | Thickness               |
|---------------|-----------|------------------|--------------------|--------------------|-------------------------|
| Units         | $\Omega$  | MHz              | $\Omega$           | mA                 | mm [inch]               |
| Symbol        | Z         | Freq.            | DCR                | I <sub>r</sub>     | T                       |
| GZ1005D400CTF | 40±25%    | 100              | 0.12               | 550                | 0.5±0.15<br>[.020±.006] |
| GZ1005D800CTF | 80±25%    | 100              | 0.16               | 450                |                         |
| GZ1005D121CTF | 120±25%   | 100              | 0.18               | 400                |                         |
| GZ1005D241CTF | 240±25%   | 100              | 0.30               | 300                |                         |
| GZ1005D301CTF | 300±25%   | 100              | 0.38               | 250                |                         |
| GZ1005D421CTF | 420±25%   | 100              | 0.45               | 250                |                         |
| GZ1005D471CTF | 470±25%   | 100              | 0.45               | 250                |                         |
| GZ1005D501CTF | 500±25%   | 100              | 0.50               | 250                |                         |
| GZ1005D601CTF | 600±25%   | 100              | 0.50               | 250                |                         |
| GZ1005D751CTF | 750±25%   | 100              | 0.65               | 150                |                         |
| GZ1005D102CTF | 1000±25%  | 100              | 0.70               | 150                |                         |
| GZ1005D152CTF | 1500±25%  | 100              | 1.15               | 100                |                         |
| GZ1005E800CTF | 80±25%    | 100              | 0.2                | 500                |                         |
| GZ1005E121CTF | 120±25%   | 100              | 0.25               | 500                |                         |
| GZ1005E241CTF | 240±25%   | 100              | 0.40               | 400                |                         |
| GZ1005E601CTF | 600±25%   | 100              | 0.60               | 300                |                         |
| GZ1005U100CTF | 0~15      | 100              | 0.03               | 1000               |                         |
| GZ1005U300CTF | 30±25%    | 100              | 0.06               | 700                |                         |
| GZ1005U700CTF | 70±25%    | 100              | 0.10               | 700                |                         |
| GZ1005U121CTF | 120±25%   | 100              | 0.20               | 500                |                         |
| GZ1005U221CTF | 220±25%   | 100              | 0.30               | 400                |                         |
| GZ1005U301CTF | 300±25%   | 100              | 0.50               | 300                |                         |
| GZ1005U421CTF | 420±25%   | 100              | 0.52               | 300                |                         |
| GZ1005U601CTF | 600±25%   | 100              | 0.55               | 300                |                         |
| GZ1005U102CTF | 1000±25%  | 100              | 0.58               | 300                |                         |

### GZ1608-C TYPE

| Part Number   | Impedance | Z Test Frequency | Max. DC Resistance | Max. Rated Current | Thickness               |
|---------------|-----------|------------------|--------------------|--------------------|-------------------------|
| Units         | $\Omega$  | MHz              | $\Omega$           | mA                 | mm [inch]               |
| Symbol        | Z         | Freq.            | DCR                | I <sub>r</sub>     | T                       |
| GZ1608D121CTF | 120±25%   | 100              | 0.20               | 500                | 0.8±0.15<br>[.031±.006] |
| GZ1608D241CTF | 240±25%   | 100              | 0.30               | 500                |                         |
| GZ1608D301CTF | 300±25%   | 100              | 0.35               | 500                |                         |

# SPECIFICATIONS

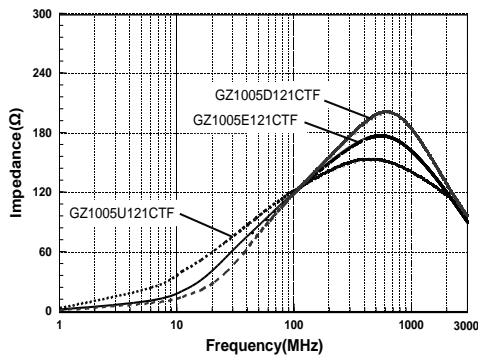
## GZ1608-C TYPE

| Part Number   | Impedance | Z Test Frequency | Max. DC Resistance | Max. Rated Current | Thickness               |
|---------------|-----------|------------------|--------------------|--------------------|-------------------------|
| Units         | $\Omega$  | MHz              | $\Omega$           | mA                 | mm [inch]               |
| Symbol        | Z         | Freq.            | DCR                | I <sub>r</sub>     | T                       |
| GZ1608D471CTF | 470±25%   | 100              | 0.40               | 500                | 0.8±0.15<br>[.031±.006] |
| GZ1608D601CTF | 600±25%   | 100              | 0.40               | 500                |                         |
| GZ1608D102CTF | 1000±25%  | 100              | 0.50               | 400                |                         |
| GZ1608D152CTF | 1500±25%  | 100              | 0.60               | 300                |                         |
| GZ1608E121CTF | 120±25%   | 100              | 0.20               | 500                |                         |
| GZ1608E102CTF | 1000±25%  | 100              | 0.50               | 400                |                         |
| GZ1608U600CTF | 60±25%    | 100              | 0.10               | 800                |                         |
| GZ1608U800CTF | 80±25%    | 100              | 0.10               | 600                |                         |
| GZ1608U121CTF | 120±25%   | 100              | 0.18               | 500                |                         |
| GZ1608U151CTF | 150±25%   | 100              | 0.25               | 500                |                         |
| GZ1608U221CTF | 220±25%   | 100              | 0.25               | 500                |                         |
| GZ1608U301CTF | 300±25%   | 100              | 0.25               | 500                |                         |
| GZ1608U471CTF | 470±25%   | 100              | 0.35               | 500                |                         |
| GZ1608U601CTF | 600±25%   | 100              | 0.38               | 500                |                         |
| GZ1608U102CTF | 1000±25%  | 100              | 0.50               | 400                |                         |

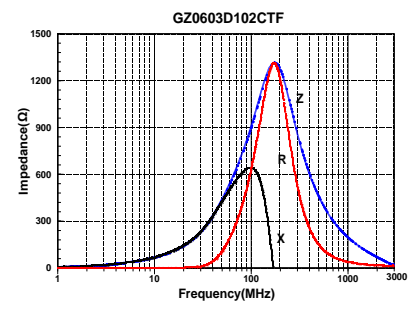
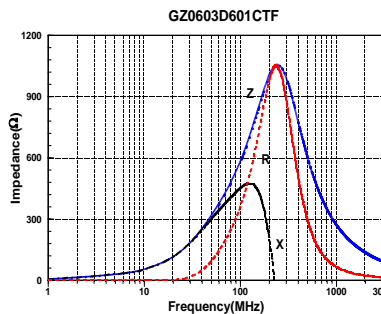
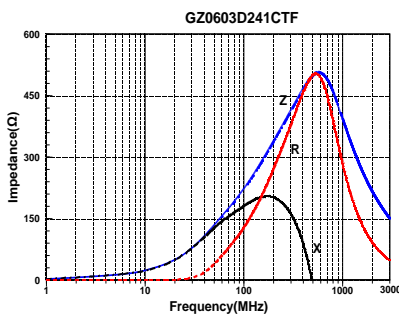
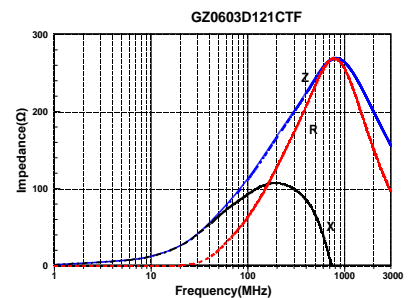
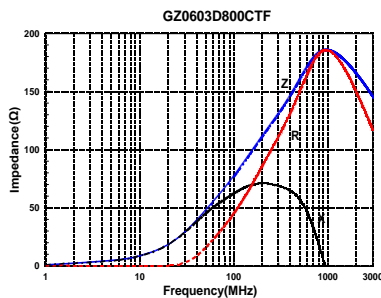
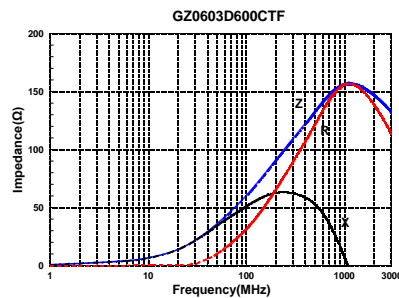
※: Products with other electrical characteristics can be provided upon customer's request. Please contact your local sales.

## TYPICAL ELECTRICAL CHARACTERISTICS

### D, E, U Material Comparison

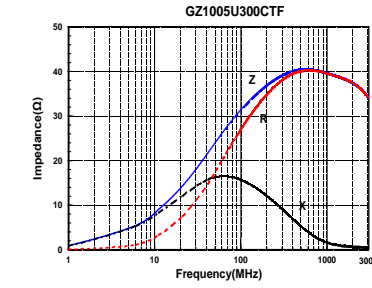
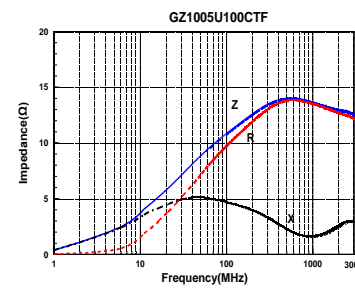
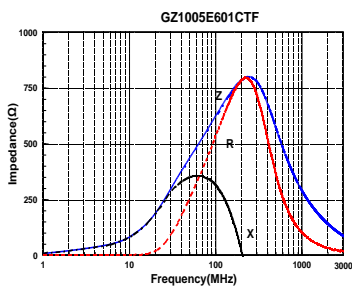
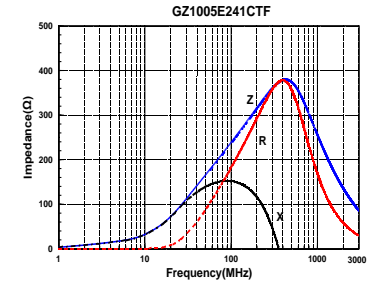
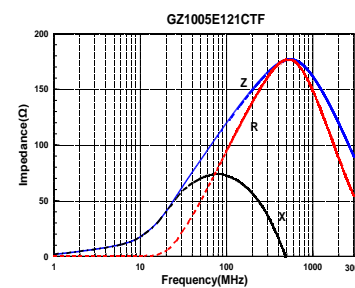
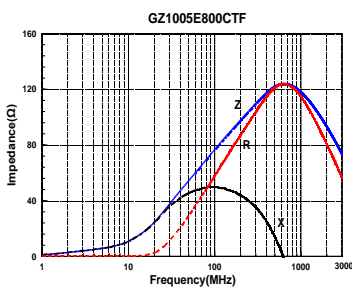
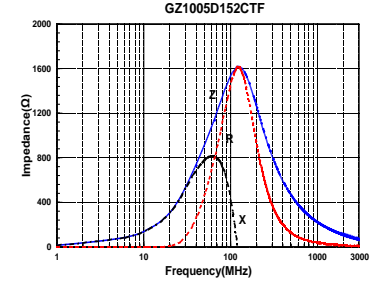
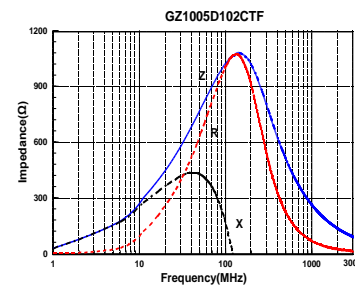
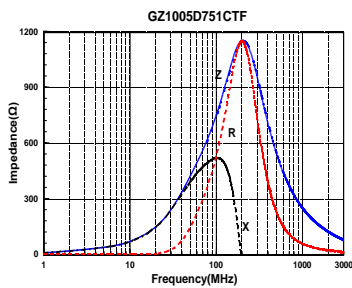
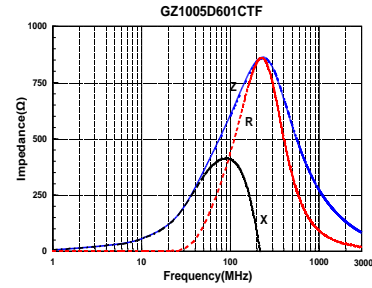
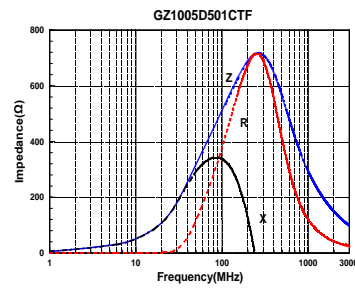
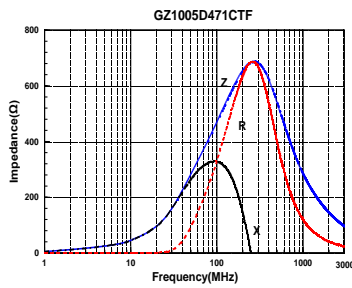
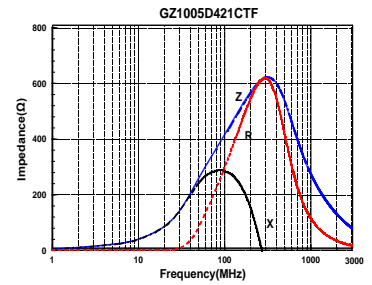
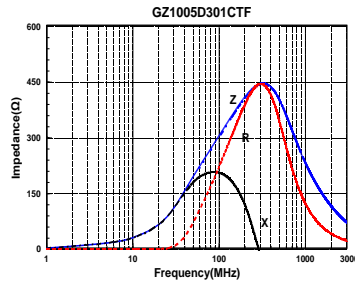
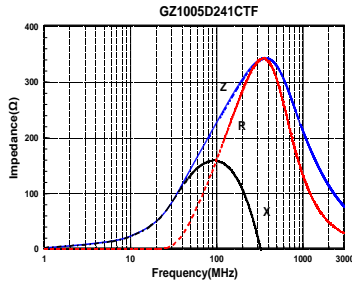
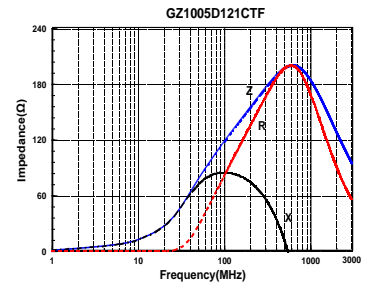
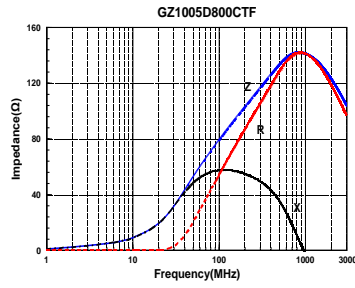
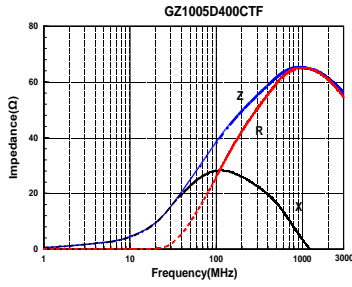


### GZ0603-C TYPE

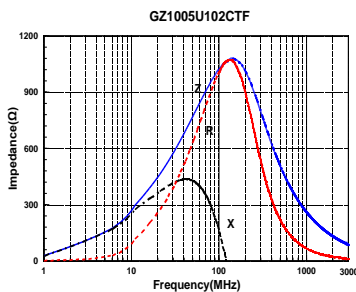
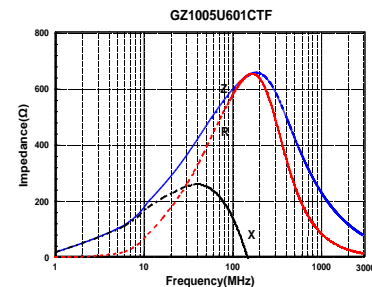
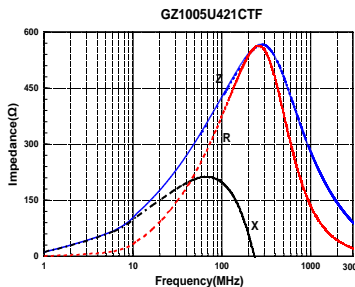
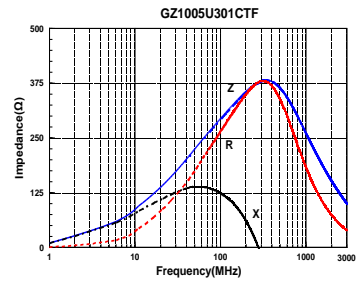
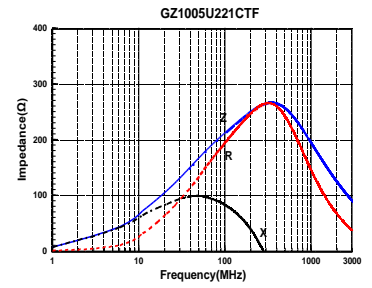
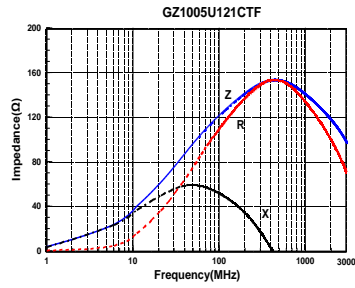
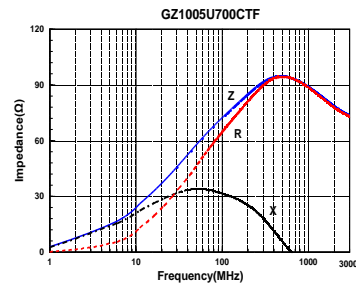


# DETAIL ELECTRICAL CHARACTERISTICS

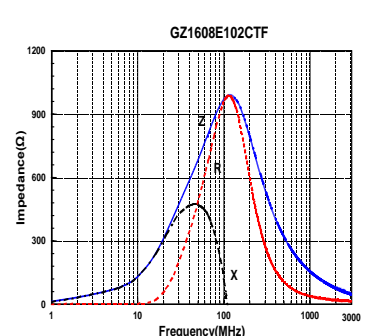
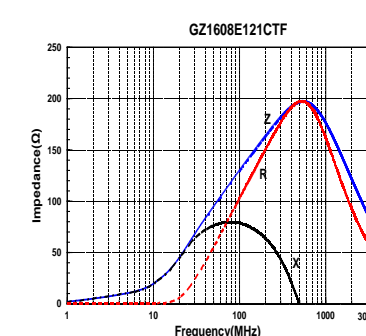
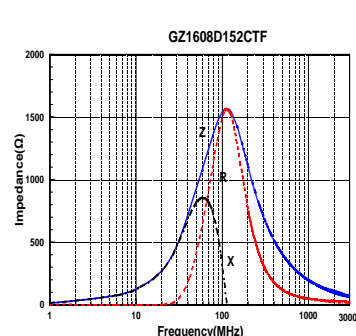
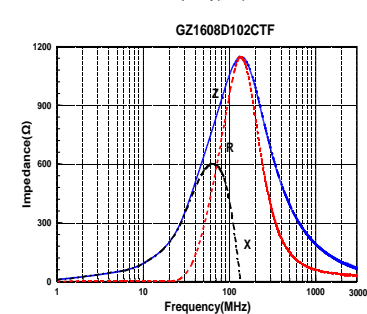
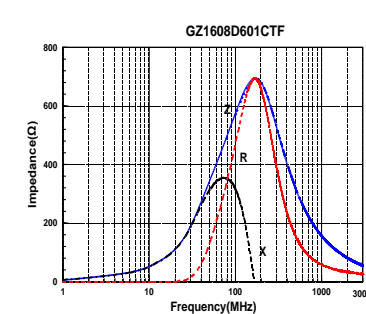
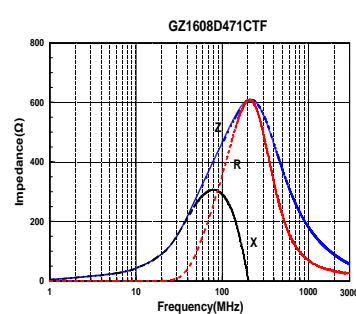
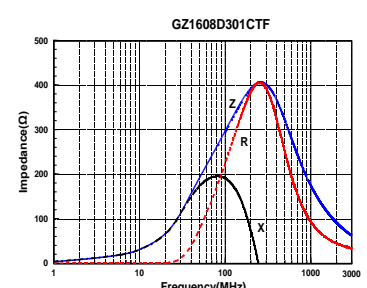
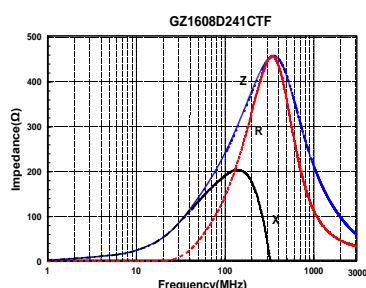
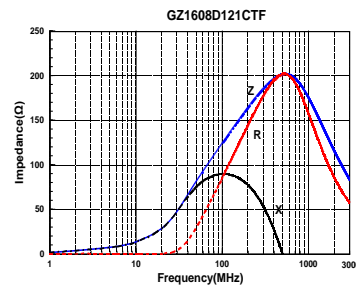
## GZ1005-C TYPE



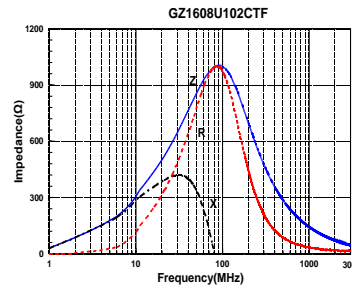
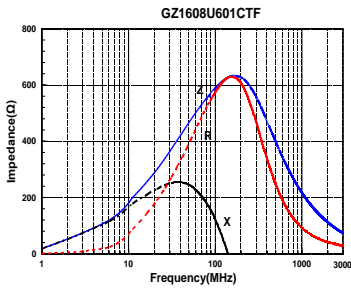
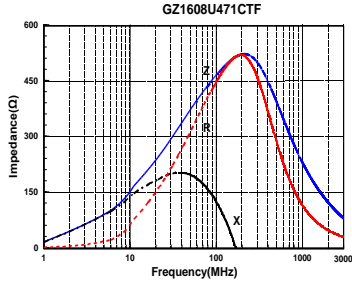
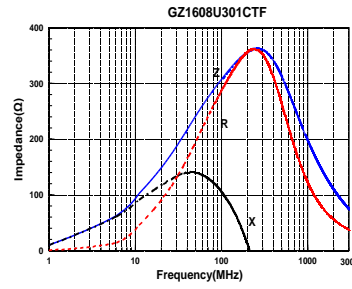
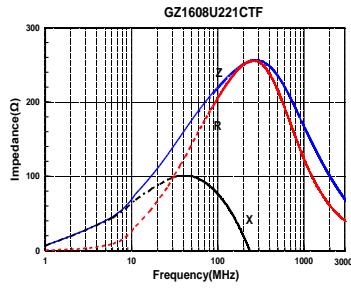
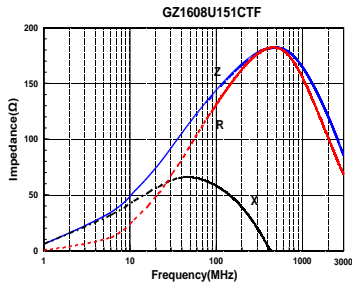
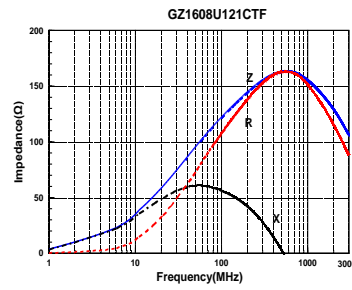
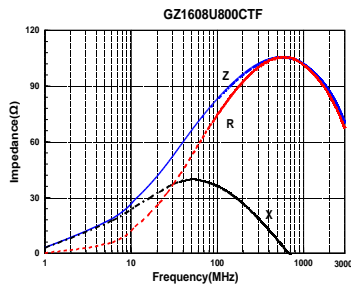
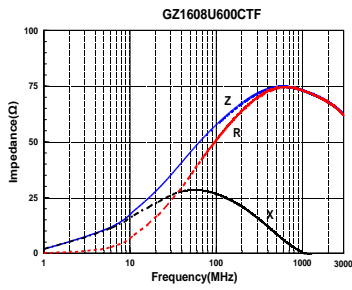
GZ1005-C TYPE



GZ1608-C TYPE



GZ1608-C TYPE



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[H0805A102TR150F](#) [NCB-H0805A221TR300F](#) [NCB-H1806E181TR300F](#) [NCB0402P300TR030F](#) [NCB0805A102TR040F](#)  
[NCB1806E151TR020F](#) [NCB-H0603R121TR300F](#) [NCB-H0805A220TR600F](#) [NCB-H0805A390TR400F](#) [NCB-H1206B121TR300F](#) [NCB-](#)  
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