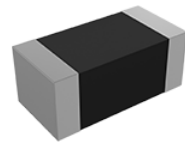


# Multilayer Chip Ferrite Bead – SZ-C Series

Operating Temp. : -55°C~+125°C



## FEATURES

- Internal silver printed layers and magnetic shielded structures to minimize crosstalk
- It has sharp impedance characteristics at desirable frequency and does not affect the signal frequency
- Smaller DC resistance and larger rate current than SZ series

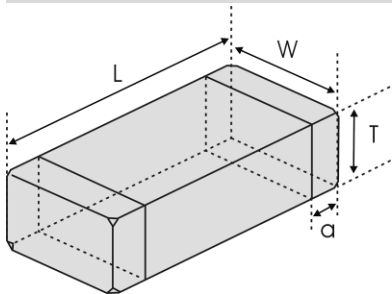
## APPLICATIONS

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

## PRODUCT IDENTIFICATION

| <u>SZ</u><br>①   | <u>1608</u><br>②                 | <u>G</u><br>③ | <u>121</u><br>④ | <u>C</u><br>⑤                    | <u>T</u><br>⑥  | <u>F</u><br>⑦                  |  |             |         |             |         |  |               |  |      |  |  |                   |  |         |               |     |     |     |      |  |              |  |   |  |   |         |  |   |             |   |                     |  |               |  |   |  |
|--|----------------------------------|---------------|-----------------|----------------------------------|--|--------------------------------|--|-------------|---------|-------------|---------|--|---------------|--|------|--|--|-------------------|--|---------|---------------|-----|-----|-----|------|--|--------------|--|---|--|---|---------|--|---|-------------|---|---------------------|--|---------------|--|---|--|
| ①  | ②                                | ③             | ④               | ⑤                                | ⑥  | ⑦                              |  |             |         |             |         |  |               |  |      |  |  |                   |  |         |               |     |     |     |      |  |              |  |   |  |   |         |  |   |             |   |                     |  |               |  |   |  |
| <table border="1"> <tr><td colspan="2">Type</td></tr> <tr><td>SZ</td><td>Chip Ferrite Bead For High Speed</td></tr> </table> | Type                             |               | SZ              | Chip Ferrite Bead For High Speed | <table border="1"> <tr><td colspan="2">External Dimensions (LxW) (mm)</td></tr> <tr><td>1005 [0402]</td><td>1.0x0.5</td></tr> <tr><td>1608 [0603]</td><td>1.6x0.8</td></tr> </table> | External Dimensions (LxW) (mm) |  | 1005 [0402] | 1.0x0.5 | 1608 [0603] | 1.6x0.8 | <table border="1"> <tr><td colspan="2">Material Code</td></tr> <tr><td colspan="2">G, K</td></tr> </table> | Material Code |  | G, K |  | <table border="1"> <tr><td colspan="2">Nominal Impedance</td></tr> <tr><td>Example</td><td>Nominal Value</td></tr> <tr><td>600</td><td>60Ω</td></tr> <tr><td>121</td><td>120Ω</td></tr> </table> | Nominal Impedance |  | Example | Nominal Value | 600 | 60Ω | 121 | 120Ω | <table border="1"> <tr><td colspan="2">Feature Code</td></tr> <tr><td colspan="2">C</td></tr> </table> | Feature Code |  | C |  | <table border="1"> <tr><td colspan="2">Packing</td></tr> <tr><td>T</td><td>Tape &amp; Reel</td></tr> </table> | Packing |  | T | Tape & Reel | <table border="1"> <tr><td colspan="2">Hazardous Substance</td></tr> <tr><td colspan="2">Free Products</td></tr> <tr><td colspan="2">F</td></tr> </table> | Hazardous Substance |  | Free Products |  | F |  |
| Type   |                                  |               |                 |                                  |  |                                |  |             |         |             |         |  |               |  |      |  |  |                   |  |         |               |     |     |     |      |  |              |  |   |  |   |         |  |   |             |   |                     |  |               |  |   |  |
| SZ   | Chip Ferrite Bead For High Speed |               |                 |                                  |  |                                |  |             |         |             |         |  |               |  |      |  |  |                   |  |         |               |     |     |     |      |  |              |  |   |  |   |         |  |   |             |   |                     |  |               |  |   |  |
| External Dimensions (LxW) (mm)   |                                  |               |                 |                                  |  |                                |  |             |         |             |         |  |               |  |      |  |  |                   |  |         |               |     |     |     |      |  |              |  |   |  |   |         |  |   |             |   |                     |  |               |  |   |  |
| 1005 [0402]  | 1.0x0.5                          |               |                 |                                  |  |                                |  |             |         |             |         |  |               |  |      |  |  |                   |  |         |               |     |     |     |      |  |              |  |   |  |   |         |  |   |             |   |                     |  |               |  |   |  |
| 1608 [0603]  | 1.6x0.8                          |               |                 |                                  |  |                                |  |             |         |             |         |  |               |  |      |  |  |                   |  |         |               |     |     |     |      |  |              |  |   |  |   |         |  |   |             |   |                     |  |               |  |   |  |
| Material Code  |                                  |               |                 |                                  |  |                                |  |             |         |             |         |  |               |  |      |  |  |                   |  |         |               |     |     |     |      |  |              |  |   |  |   |         |  |   |             |   |                     |  |               |  |   |  |
| G, K   |                                  |               |                 |                                  |  |                                |  |             |         |             |         |  |               |  |      |  |  |                   |  |         |               |     |     |     |      |  |              |  |   |  |   |         |  |   |             |   |                     |  |               |  |   |  |
| Nominal Impedance  |                                  |               |                 |                                  |  |                                |  |             |         |             |         |  |               |  |      |  |  |                   |  |         |               |     |     |     |      |  |              |  |   |  |   |         |  |   |             |   |                     |  |               |  |   |  |
| Example  | Nominal Value                    |               |                 |                                  |  |                                |  |             |         |             |         |  |               |  |      |  |  |                   |  |         |               |     |     |     |      |  |              |  |   |  |   |         |  |   |             |   |                     |  |               |  |   |  |
| 600  | 60Ω                              |               |                 |                                  |  |                                |  |             |         |             |         |  |               |  |      |  |  |                   |  |         |               |     |     |     |      |  |              |  |   |  |   |         |  |   |             |   |                     |  |               |  |   |  |
| 121  | 120Ω                             |               |                 |                                  |  |                                |  |             |         |             |         |  |               |  |      |  |  |                   |  |         |               |     |     |     |      |  |              |  |   |  |   |         |  |   |             |   |                     |  |               |  |   |  |
| Feature Code   |                                  |               |                 |                                  |  |                                |  |             |         |             |         |  |               |  |      |  |  |                   |  |         |               |     |     |     |      |  |              |  |   |  |   |         |  |   |             |   |                     |  |               |  |   |  |
| C  |                                  |               |                 |                                  |  |                                |  |             |         |             |         |  |               |  |      |  |  |                   |  |         |               |     |     |     |      |  |              |  |   |  |   |         |  |   |             |   |                     |  |               |  |   |  |
| Packing  |                                  |               |                 |                                  |  |                                |  |             |         |             |         |  |               |  |      |  |  |                   |  |         |               |     |     |     |      |  |              |  |   |  |   |         |  |   |             |   |                     |  |               |  |   |  |
| T  | Tape & Reel                      |               |                 |                                  |  |                                |  |             |         |             |         |  |               |  |      |  |  |                   |  |         |               |     |     |     |      |  |              |  |   |  |   |         |  |   |             |   |                     |  |               |  |   |  |
| Hazardous Substance  |                                  |               |                 |                                  |  |                                |  |             |         |             |         |  |               |  |      |  |  |                   |  |         |               |     |     |     |      |  |              |  |   |  |   |         |  |   |             |   |                     |  |               |  |   |  |
| Free Products  |                                  |               |                 |                                  |  |                                |  |             |         |             |         |  |               |  |      |  |  |                   |  |         |               |     |     |     |      |  |              |  |   |  |   |         |  |   |             |   |                     |  |               |  |   |  |
| F  |                                  |               |                 |                                  |  |                                |  |             |         |             |         |  |               |  |      |  |  |                   |  |         |               |     |     |     |      |  |              |  |   |  |   |         |  |   |             |   |                     |  |               |  |   |  |

## SHAPE AND DIMENSIONS



Unit: mm [inch]

| Type             | L                       | W                       | T                       | a                       |
|------------------|-------------------------|-------------------------|-------------------------|-------------------------|
| SZ1005<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] |
| SZ1608<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

### SZ1005-C TYPE

| Part Number   | Impedance | Z Test Frequency | Max. DC Resistance | Max. Rated Current | Thickness               |
|---------------|-----------|------------------|--------------------|--------------------|-------------------------|
| Units         | Ω         | MHz              | Ω                  | mA                 | mm [inch]               |
| Symbol        | Z         | Freq.            | DCR                | I <sub>r</sub>     | T                       |
| SZ1005G050CTF | 0~15      | 100              | 0.08               | 500                | 0.5±0.15<br>[.020±.006] |
| SZ1005G221CTF | 220±25%   | 100              | 0.60               | 250                |                         |
| SZ1005K750CTF | 75±25%    | 100              | 0.20               | 600                |                         |
| SZ1005K121CTF | 120±25%   | 100              | 0.30               | 400                |                         |
| SZ1005K221CTF | 220±25%   | 100              | 0.40               | 300                |                         |
| SZ1005K301CTF | 300±25%   | 100              | 0.55               | 300                |                         |
| SZ1005K471CTF | 470±25%   | 100              | 0.60               | 200                |                         |
| SZ1005K601CTF | 600±25%   | 100              | 0.65               | 200                |                         |
| SZ1005K102CTF | 1000±25%  | 100              | 0.90               | 200                |                         |
| SZ1005K152CTF | 1500±25%  | 100              | 1.20               | 100                |                         |
| SZ1005K182CTF | 1800±25%  | 100              | 1.40               | 100                |                         |

# SPECIFICATIONS

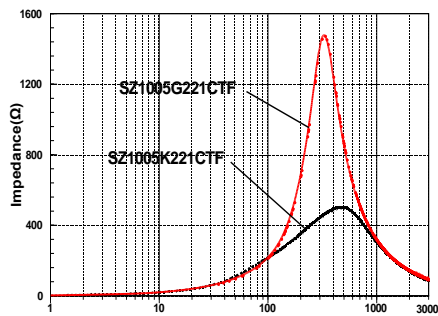
## SZ1608-C TYPE

| 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                       |
| SZ1608G600CTF | 60±25%    | 100              | 0.25               | 800                | 0.8±0.15<br>[.031±.006] |
| SZ1608G121CTF | 120±25%   | 100              | 0.30               | 700                |                         |
| SZ1608G221CTF | 220±25%   | 100              | 0.45               | 600                |                         |
| SZ1608G331CTF | 330±25%   | 100              | 0.58               | 550                |                         |
| SZ1608K601CTF | 600±25%   | 100              | 0.60               | 300                |                         |
| SZ1608K102CTF | 1000±25%  | 100              | 0.70               | 250                |                         |
| SZ1608K152CTF | 1500±25%  | 100              | 0.75               | 250                |                         |
| SZ1608K182CTF | 1800±25%  | 100              | 0.85               | 200                |                         |
| SZ1608K222CTF | 2200±25%  | 100              | 0.90               | 200                |                         |
| SZ1608K252CTF | 2500±25%  | 100              | 1.00               | 200                |                         |

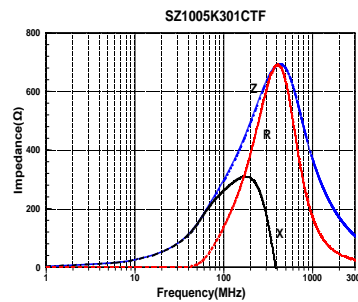
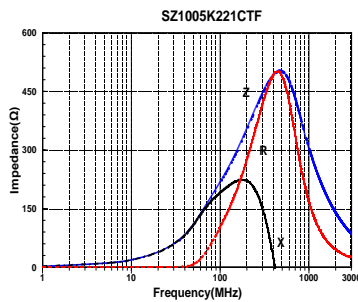
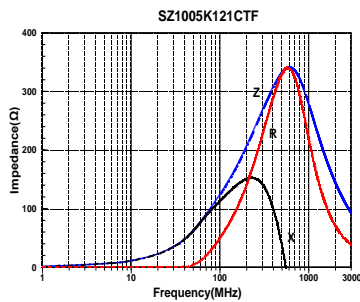
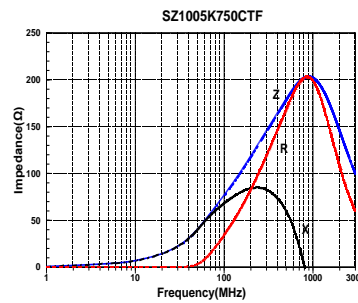
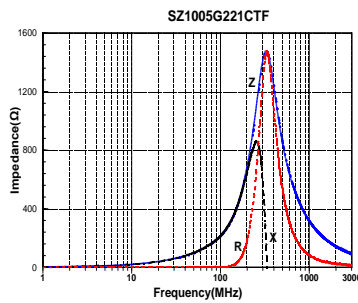
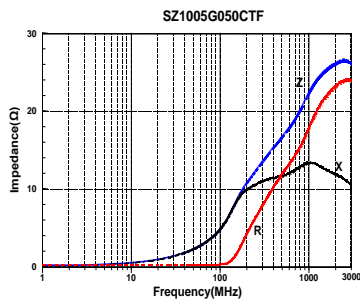
※: Products with other electrical characteristics can be provided upon customer's request. Please contact your local sales.

# TYPICAL ELECTRICAL CHARACTERISTICS

## G, K Material Comparison

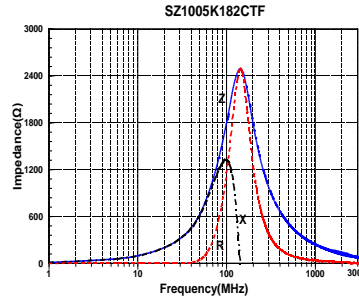
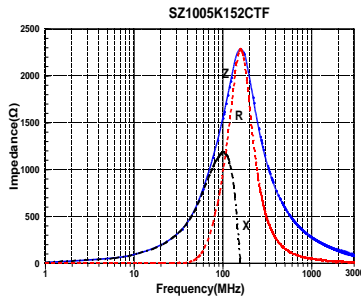
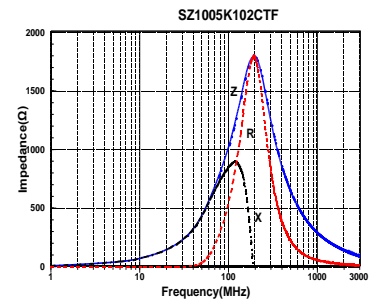
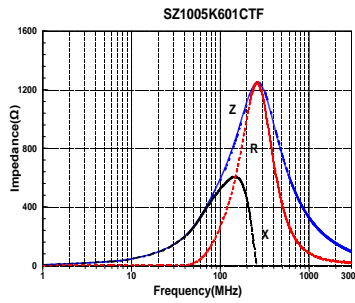
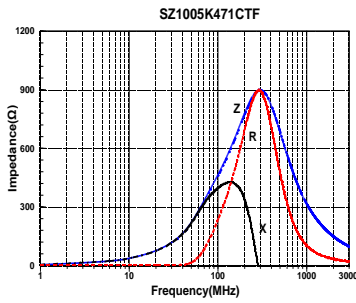


## SZ1005-C TYPE

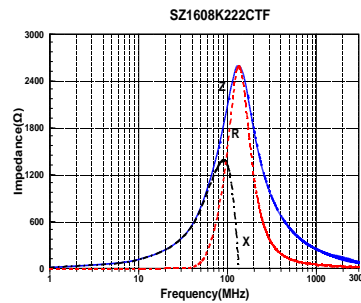
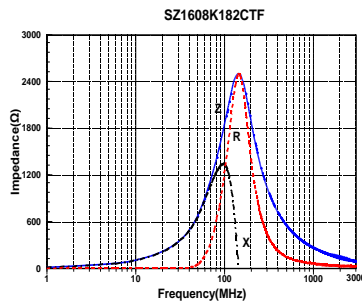
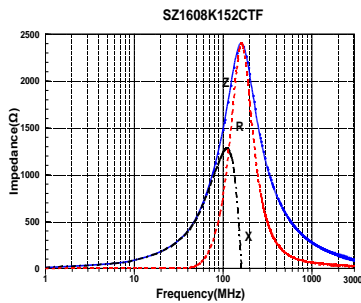
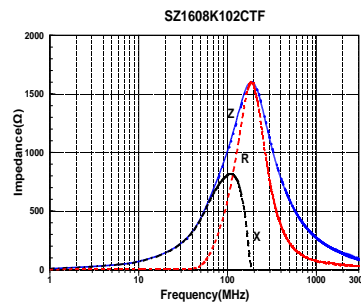
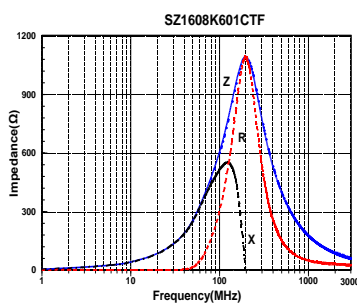
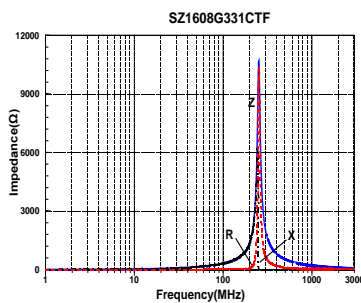
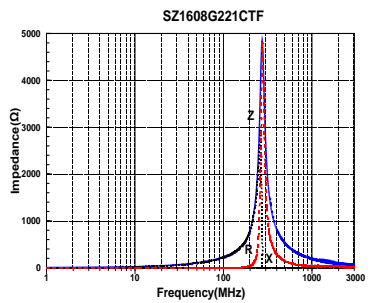
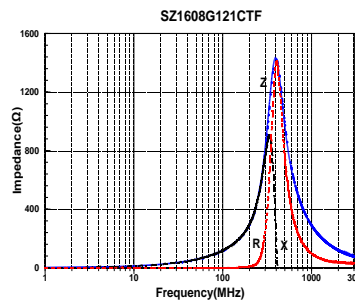
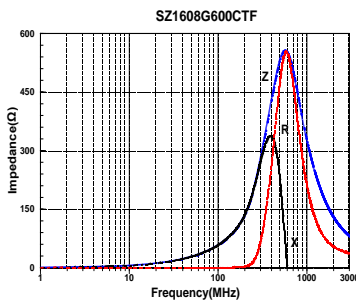


# DETAIL ELECTRICAL CHARACTERISTICS

## SZ1005-C TYPE

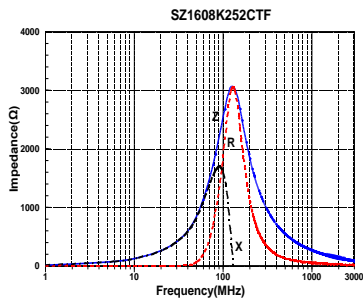


## SZ1608-C TYPE



# DETAIL ELECTRICAL CHARACTERISTICS

SZ1608-C TYPE



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