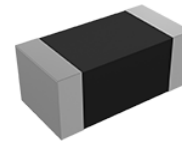


Multilayer Chip Ferrite Bead – HZ Series

Operating Temp. : -55°C~+125°C



FEATURES

- Internal silver printed layers and magnetic shielded structures to minimize crosstalk
- Perfect effect for EMI suppression at high frequency (≥1GHz) due to its high impedance
- Four types material and wide range of impedance values for various applications

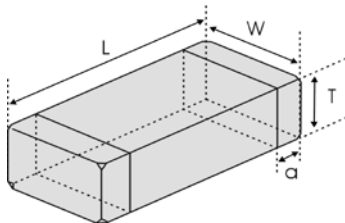
APPLICATIONS

- High frequency noise suppression in electric equipments such as computer and peripheral devices, DVD, cameras, LCD TVs, communication equipments, OA equipments, etc.

PRODUCT IDENTIFICATION

| | | | | | | | | | | | | | | | | | | | | | | |
|--|--------------------------------------|-------------------|-----------------|---|--------------------------------------|---|-------------|--------------------------------|-------|---|-----------------------------|-----------------------------------|---------|-------------|---------|--|--|--|---------------|--|------------|-------------|
| HZ ① | 1608 ② | K ③ | 301 ④ | T ⑤ | F ⑥ | □□□ ⑦ | | | | | | | | | | | | | | | | |
| <table border="1"> <tr><td colspan="2">Type</td></tr> <tr><td>HZ</td><td>Chip Ferrite Bead for High Frequency</td></tr> </table> | | Type | | HZ | Chip Ferrite Bead for High Frequency | <table border="1"> <tr><td colspan="2">External Dimensions (L×W) (mm)</td></tr> <tr><td>0603[0201]</td><td>0.6×0.3</td></tr> <tr><td>1005 [0402]</td><td>1.0×0.5</td></tr> <tr><td>1608 [0603]</td><td>1.6×0.8</td></tr> </table> | | External Dimensions (L×W) (mm) | | 0603[0201] | 0.6×0.3 | 1005 [0402] | 1.0×0.5 | 1608 [0603] | 1.6×0.8 | <table border="1"> <tr><td colspan="2">Material Code</td></tr> <tr><td colspan="2">G, K, D, U</td></tr> </table> | | | Material Code | | G, K, D, U | |
| Type | | | | | | | | | | | | | | | | | | | | | | |
| HZ | Chip Ferrite Bead for High Frequency | | | | | | | | | | | | | | | | | | | | | |
| External Dimensions (L×W) (mm) | | | | | | | | | | | | | | | | | | | | | | |
| 0603[0201] | 0.6×0.3 | | | | | | | | | | | | | | | | | | | | | |
| 1005 [0402] | 1.0×0.5 | | | | | | | | | | | | | | | | | | | | | |
| 1608 [0603] | 1.6×0.8 | | | | | | | | | | | | | | | | | | | | | |
| Material Code | | | | | | | | | | | | | | | | | | | | | | |
| G, K, D, U | | | | | | | | | | | | | | | | | | | | | | |
| <table border="1"> <tr><td colspan="2">Nominal Impedance</td></tr> <tr><td>Example</td><td>Nominal Value</td></tr> <tr><td>301</td><td>300Ω</td></tr> <tr><td>102</td><td>1000Ω</td></tr> </table> | | Nominal Impedance | | Example | Nominal Value | 301 | 300Ω | 102 | 1000Ω | <table border="1"> <tr><td colspan="2">Hazardous Substance Free Products</td></tr> <tr><td colspan="2">F</td></tr> </table> | | Hazardous Substance Free Products | | F | | <table border="1"> <tr><td colspan="2">Packing</td></tr> <tr><td>T</td><td>Tape & Reel</td></tr> </table> | | | Packing | | T | Tape & Reel |
| Nominal Impedance | | | | | | | | | | | | | | | | | | | | | | |
| Example | Nominal Value | | | | | | | | | | | | | | | | | | | | | |
| 301 | 300Ω | | | | | | | | | | | | | | | | | | | | | |
| 102 | 1000Ω | | | | | | | | | | | | | | | | | | | | | |
| Hazardous Substance Free Products | | | | | | | | | | | | | | | | | | | | | | |
| F | | | | | | | | | | | | | | | | | | | | | | |
| Packing | | | | | | | | | | | | | | | | | | | | | | |
| T | Tape & Reel | | | | | | | | | | | | | | | | | | | | | |
| | | | | <table border="1"> <tr><td colspan="2">Design Code</td></tr> <tr><td>□□□</td><td>Design Code</td></tr> <tr><td colspan="2">* Standard product is blank</td></tr> </table> | | | Design Code | | □□□ | Design Code | * Standard product is blank | | | | | | | | | | | |
| Design Code | | | | | | | | | | | | | | | | | | | | | | |
| □□□ | Design Code | | | | | | | | | | | | | | | | | | | | | |
| * Standard product is blank | | | | | | | | | | | | | | | | | | | | | | |

SHAPE AND DIMENSIONS



Unit: mm [inch]

| Type | L | W | T | a |
|------------------|-------------------------|-------------------------|-------------------------|--------------------------|
| HZ0603 [0201] | 0.6±0.05 [.024±.002] | 0.3±0.05 [.012±.002] | 0.3±0.05 [.012±.002] | 0.15±0.05 [.006±.002] |
| HZ1005 [0402] | 1.0±0.15 [.039±.006] | 0.5±0.15 [.020±.006] | 0.5±0.15 [.020±.006] | 0.25±0.1 [.010±.004] |
| HZ1608 [0603] | 1.6±0.15 [.063±.006] | 0.8±0.15 [.031±.006] | 0.8±0.15 [.031±.006] | 0.3±0.2 [.012±.008] |

SPECIFICATIONS

HZ0603 TYPE

| Part Number | Impedance | | Max. DC Resistance | Max. Rated Current | Thickness |
|--------------|-----------|------------|--------------------|--------------------|-------------------------|
| | @100MHz | @1GHz Min. | | | |
| Units | Ω | | Ω | mA | mm [inch] |
| Symbol | Z | | DCR | I _r | T |
| HZ0603D331TF | 330±25% | 450 | 1.00 | 200 | 0.3±0.05 [.012±.002] |
| HZ0603D471TF | 470±25% | 600 | 1.30 | 175 | |
| HZ0603D601TF | 600±25% | 900 | 1.70 | 150 | |
| HZ0603G121TF | 120±25% | 600 | 1.50 | 200 | |
| HZ0603G221TF | 220±25% | 720 | 2.00 | 150 | |

SPECIFICATIONS

HZ1005 TYPE

| Part Number | Impedance | | Max. DC Resistance | Max. Rated Current | Thickness |
|-----------------|-----------|------------|--------------------|--------------------|-------------------------|
| | @100MHz | @1GHz Min. | | | |
| Units | Ω | | Ω | mA | mm [inch] |
| Symbol | Z | | DCR | I _r | T |
| HZ1005G121TF | 120±25% | 500 | 0.70 | 300 | 0.5±0.15 [.020±.006] |
| HZ1005G221TF | 220±25% | 900 | 1.00 | 250 | |
| HZ1005D221TFB01 | 220±25% | 300 | 0.50 | 300 | |
| HZ1005D301TF | 300±25% | 400 | 1.00 | 100 | |
| HZ1005D601TF | 600±25% | 700 | 1.50 | 100 | |
| HZ1005D102TF | 1000±25% | 900 | 1.80 | 50 | |
| HZ1005K181TF | 180±25% | 400 | 1.00 | 100 | |
| HZ1005K301TF | 300±25% | 600 | 1.10 | 100 | |
| HZ1005K471TF | 470±25% | 900 | 1.30 | 100 | |
| HZ1005K601TFB01 | 600±25% | 1100 | 0.85 | 300 | |
| HZ1005K102TFB01 | 1000±25% | 1200 | 1.25 | 250 | |
| HZ1005K152TF | 1500±25% | 1400 | 2.20 | 50 | |
| HZ1005K182TFB03 | 1800±25% | 1620 | 2.20 | 200 | |
| HZ1005U601TFB02 | 600±25% | 600 | 0.70 | 300 | |
| HZ1005U102TFB01 | 1000±25% | 900 | 1.10 | 250 | |

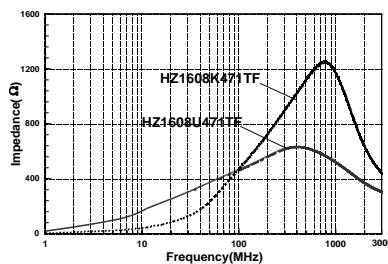
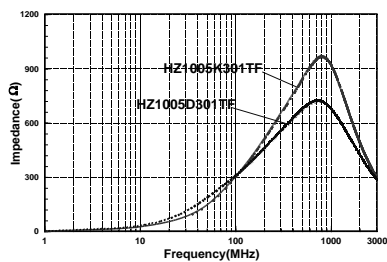
HZ1608 TYPE

| Part Number | Impedance | | Max. DC Resistance | Max. Rated Current | Thickness |
|--------------|-----------|------------|--------------------|--------------------|-------------------------|
| | @100MHz | @1GHz Min. | | | |
| Units | Ω | | Ω | mA | mm [inch] |
| Symbol | Z | | DCR | I _r | T |
| HZ1608K471TF | 470±25% | 700 | 1.20 | 100 | 0.8±0.15 [.031±.006] |
| HZ1608K601TF | 600±25% | 850 | 1.50 | 100 | |
| HZ1608K102TF | 1000±25% | 1100 | 1.80 | 50 | |
| HZ1608U181TF | 180±25% | 180 | 0.55 | 200 | |
| HZ1608U301TF | 300±25% | 300 | 0.75 | 200 | |
| HZ1608U471TF | 470±25% | 400 | 0.85 | 200 | |
| HZ1608U601TF | 600±25% | 450 | 1.00 | 200 | |
| HZ1608U102TF | 1000±25% | 750 | 1.60 | 100 | |

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

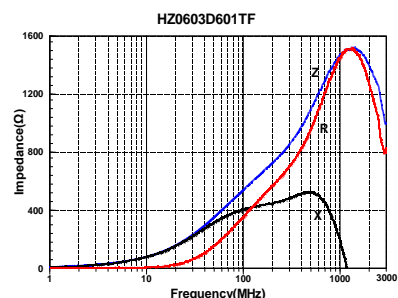
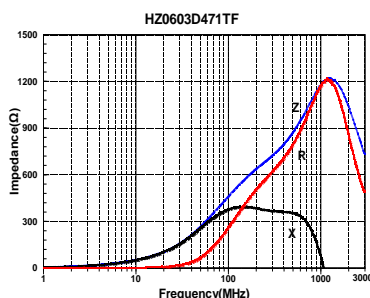
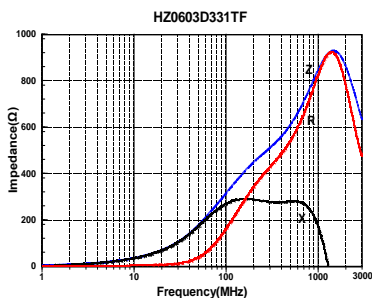
TYPICAL ELECTRICAL CHARACTERISTICS

D, K, U Material Comparison



DETAIL ELECTRICAL CHARACTERISTICS

HZ0603 TYPE



DETAIL ELECTRICAL CHARACTERISTICS

HZ1608 TYPE

