

Feature

- Smallest beads suitable for surface mounting
- Perfect shape for automatic mounting, with no directionality.
- Excellent solderability and high heat resistance for either flow or reflow soldering.
- Monolithic inorganic material construction for high reliability.
- Closed magnetic circuit configuration avoids crosstalk and is suitable for high density PCBs.

Application

- High frequency EMI prevention application to computers, printers, VCRs, TVs and mobile phones.

The CIB/CIM Series are used for EMI suppression filter. These beads suppress electro-magnetic wave noise by increased impedance, especially by increased resistance at noise frequency.

CIB Series

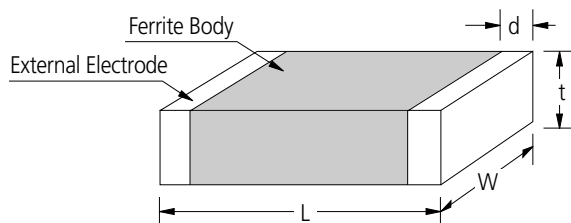
The CIB Series is composed of mono-layer internal conductor that allows low impedance and low DC resistance.

CIM Series

The CIM Series display high impedance because it is composed of a multilayered internal conductor and has excellent attenuation characteristics for wide band frequencies.

| | |
|----------------|------------|
| Operating Temp | -55~+125°C |
| Storage Temp | -10~+40°C |

Dimensions



Unit: mm

| SIZE CODE | L | W | t | d |
|-----------|----------|----------|-----------------|--------------|
| 03 | 0.6±0.03 | 0.3±0.03 | 0.3±0.03 | 0.15±0.05 |
| 05 | 1.0±0.05 | 0.5±0.05 | 0.5±0.05 | 0.25±0.1 |
| 10 | 1.6±0.15 | 0.8±0.15 | 0.8±0.15 | 0.3±0.2 |
| 21 | 2.0±0.2 | 1.25±0.2 | 0.9±0.2 | 0.5+0.2,-0.3 |
| 31 | 3.2±0.2 | 1.6±0.2 | 1.1±0.2 | 0.5+0.2,-0.3 |
| 32 | 3.2±0.2 | 2.5±0.2 | 1.3±0.2 | 0.5±0.3 |
| 41 | 4.5±0.2 | 1.6±0.2 | 1.6±0.2/1.2±0.2 | 0.5±0.3 |
| 43 | 4.5±0.2 | 3.2±0.2 | 1.5±0.2 | 0.5±0.3 |

Part Numbering

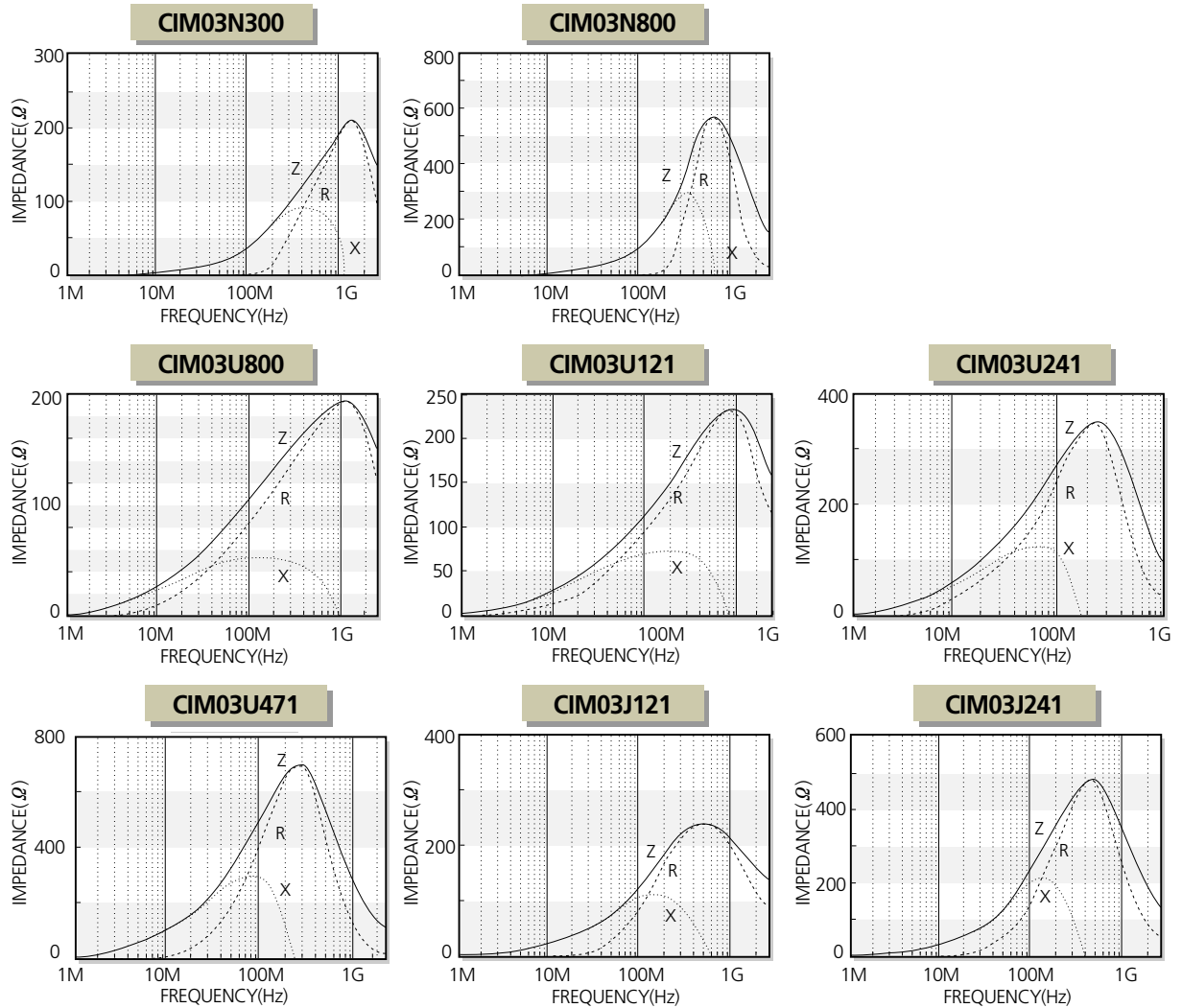
CI **M** **03** **J** **121** **N** **C**
 (1) (2) (3) (4) (5) (6) (7)

- (1) Chip Beads
- (2) B: Mono-layer type, M: Multi-layer type
- (3) Dimension
- (4) Material Code
- (5) Nominal impedance (110: 11Ω ; 121: 120Ω)
- (6) Thickness option (N: Standard, A: Thinner than standard, B: Thicker than standard)
- (7) Packaging (C: paper tape, E: embossed tape)

CIM 0603(0201) Type

| Part No. | Thickness (mm) | Impedance (Ω) $\pm 25\%$ @ 100 MHz | DC Resistance (Ω) Max. | Rated Current (mA) Max. |
|-------------|----------------|---|---------------------------------|-------------------------|
| CIM 03N 300 | 0.3 \pm 0.03 | 30 | 0.8 | 150 |
| CIM 03N 800 | 0.3 \pm 0.03 | 80 | 1.2 | 100 |
| CIM 03U 800 | 0.3 \pm 0.03 | 80 | 0.37 | 200 |
| CIM 03U 121 | 0.3 \pm 0.03 | 120 | 0.8 | 200 |
| CIM 03U 241 | 0.3 \pm 0.03 | 240 | 0.75 | 200 |
| CIM 03U 471 | 0.3 \pm 0.03 | 470 | 1.3 | 100 |
| CIM 03J 121 | 0.3 \pm 0.03 | 120 | 0.8 | 200 |
| CIM 03J 241 | 0.3 \pm 0.03 | 240 | 1.0 | 100 |

※ Test equipment: Agilent E4991A + 16192A

Electrical Characteristics


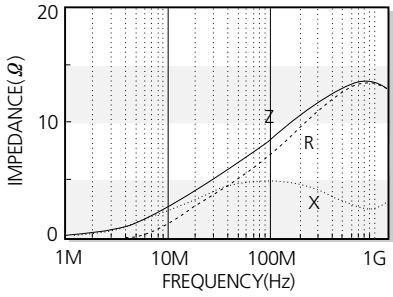
CIM 1005(0402) Type

| Part No. | Thickness (mm) | Impedance (Ω) $\pm 25\%$ @ 100 MHz | DC Resistance (Ω) Max. | Rated Current (mA) Max. |
|--------------|----------------|---|---------------------------------|-------------------------|
| CIM 05U 100 | 0.5 \pm 0.05 | 10 | 0.05 | 1200 |
| CIM 05U 300 | 0.5 \pm 0.05 | 30 | 0.10 | 700 |
| CIM 05U 600 | 0.5 \pm 0.05 | 60 | 0.15 | 600 |
| CIM 05U 800 | 0.5 \pm 0.05 | 80 | 0.20 | 600 |
| CIM 05U 121 | 0.5 \pm 0.05 | 120 | 0.25 | 500 |
| CIM 05U 221 | 0.5 \pm 0.05 | 220 | 0.35 | 500 |
| CIM 05U 241 | 0.5 \pm 0.05 | 240 | 0.35 | 400 |
| CIM 05U 301 | 0.5 \pm 0.05 | 300 | 0.45 | 400 |
| CIM 05U 471 | 0.5 \pm 0.05 | 470 | 0.55 | 300 |
| CIM 05U 601 | 0.5 \pm 0.05 | 600 | 0.60 | 300 |
| CIM 05U 102 | 0.5 \pm 0.05 | 1000 | 1.00 | 200 |
| CIM 05 J 300 | 0.5 \pm 0.05 | 30 | 0.20 | 700 |
| CIM 05 J 600 | 0.5 \pm 0.05 | 60 | 0.20 | 650 |
| CIM 05 J 800 | 0.5 \pm 0.05 | 80 | 0.25 | 600 |
| CIM 05 J 121 | 0.5 \pm 0.05 | 120 | 0.30 | 500 |
| CIM 05 J 221 | 0.5 \pm 0.05 | 220 | 0.35 | 400 |
| CIM 05 J 241 | 0.5 \pm 0.05 | 240 | 0.35 | 400 |
| CIM 05 J 301 | 0.5 \pm 0.05 | 300 | 0.45 | 400 |
| CIM 05 J 471 | 0.5 \pm 0.05 | 470 | 0.55 | 300 |
| CIM 05 J 601 | 0.5 \pm 0.05 | 600 | 0.60 | 300 |
| CIM 05 J 102 | 0.5 \pm 0.05 | 1000 | 0.80 | 250 |
| CIM 05 J 152 | 0.5 \pm 0.05 | 1500 | 1.00 | 250 |
| CIM 05 J 182 | 0.5 \pm 0.05 | 1800 | 1.40 | 100 |
| CIM 05 N 750 | 0.5 \pm 0.05 | 75 | 0.35 | 300 |
| CIM 05 N 121 | 0.5 \pm 0.05 | 120 | 0.55 | 300 |
| CIM 05 N 221 | 0.5 \pm 0.05 | 220 | 0.80 | 200 |
| CIM 05 F 050 | 0.5 \pm 0.05 | 5 | 0.08 | 500 |
| CIM 05 F 100 | 0.5 \pm 0.05 | 10 | 0.10 | 300 |
| CIM 05 F 220 | 0.5 \pm 0.05 | 22 | 0.20 | 300 |
| CIM 05 F 470 | 0.5 \pm 0.05 | 47 | 0.35 | 300 |
| CIM 05 F 750 | 0.5 \pm 0.05 | 75 | 0.40 | 300 |
| CIM 05 F 121 | 0.5 \pm 0.05 | 120 | 0.55 | 300 |
| CIM 05 F 221 | 0.5 \pm 0.05 | 220 | 0.80 | 200 |

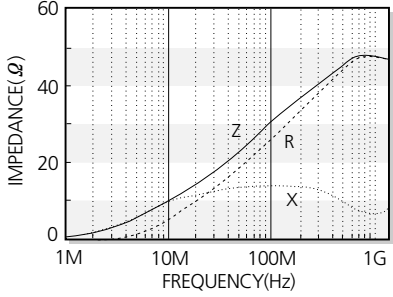
※Test equipment: Agilent E4991A + 16192A

Electrical Characteristics

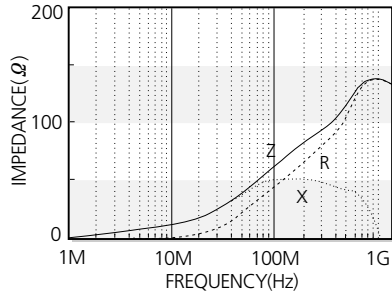
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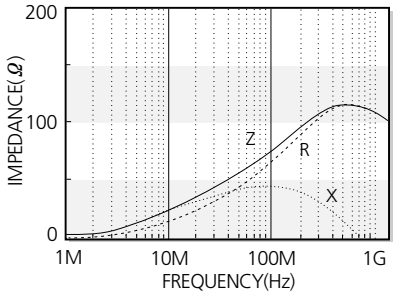
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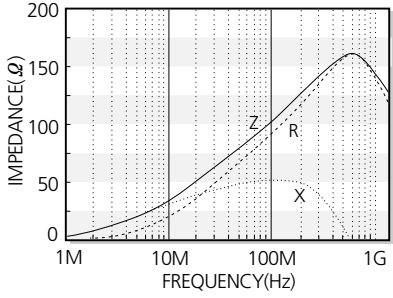
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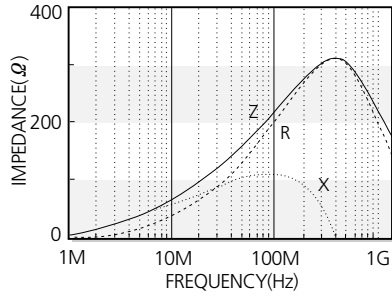
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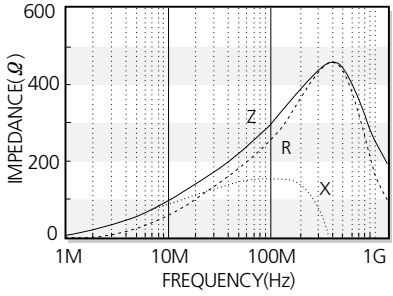
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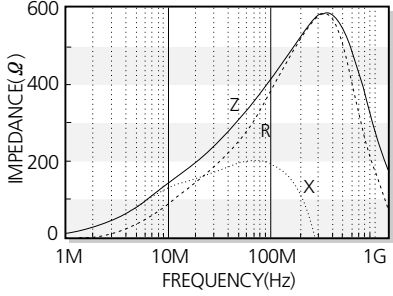
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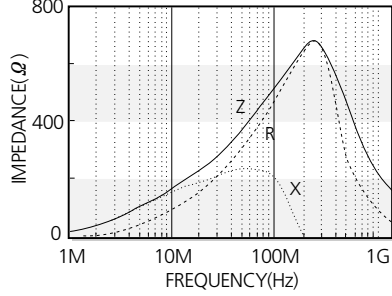
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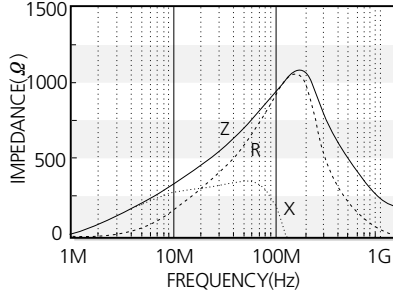
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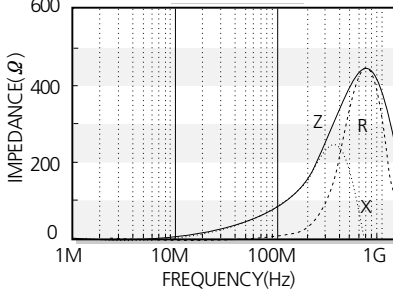
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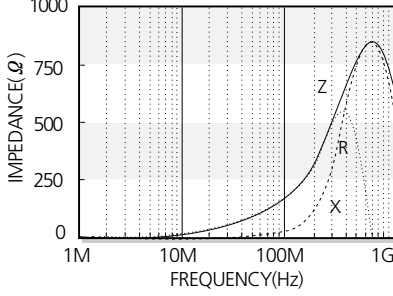
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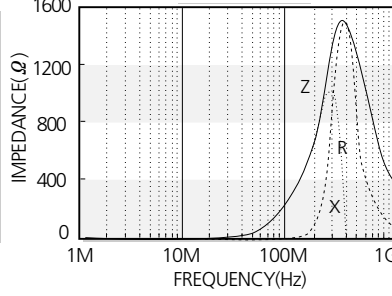
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CIM05N121

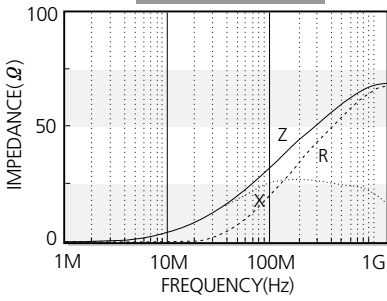


CIM05N221

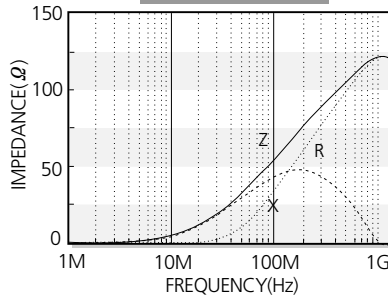


Electrical Characteristics

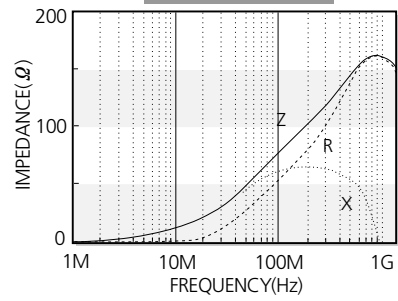
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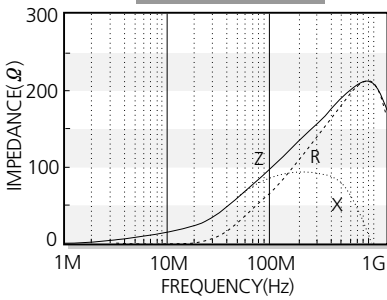
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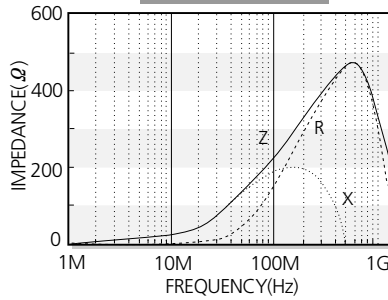
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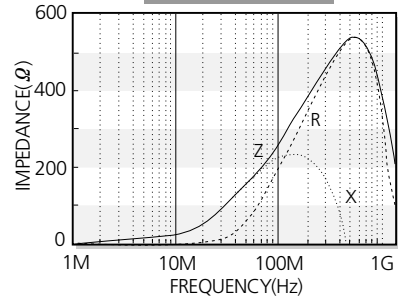
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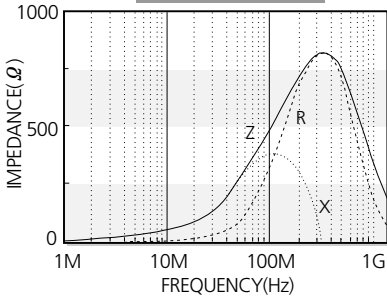
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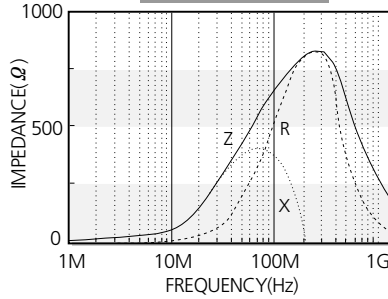
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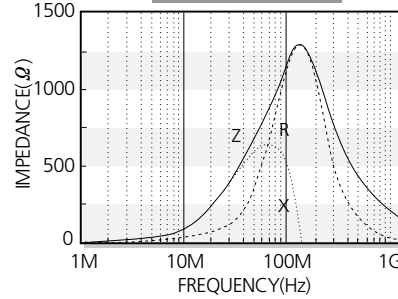
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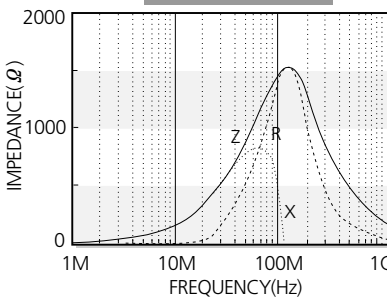
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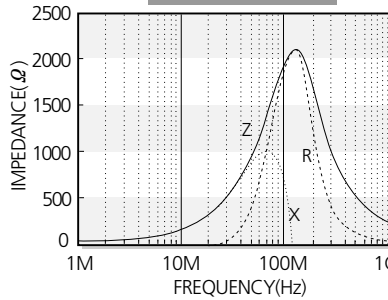
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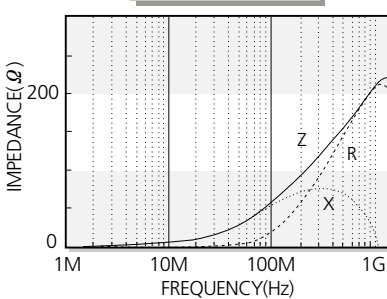
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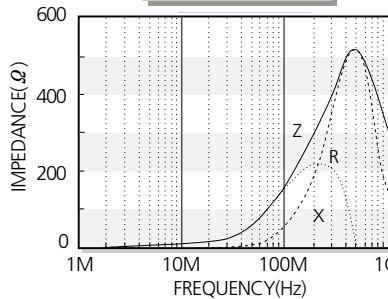
CIM05J182



CIM05F470



CIM05F121





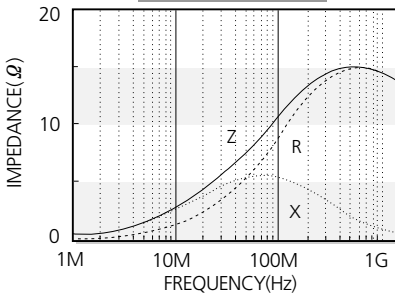
CIB/CIM 1608(0603) Type

| Part No. | Thickness (mm) | Impedance (Ω) \pm 25% @ 100 MHz | DC Resistance (Ω) Max. | Rated Current (mA) Max. |
|--------------|----------------|--|---------------------------------|-------------------------|
| CIB 10P 100 | 0.8 \pm 0.15 | 10 | 0.05 | 1000 |
| CIB 10P 220 | 0.8 \pm 0.15 | 22 | 0.05 | 1500 |
| CIB 10P 260 | 0.8 \pm 0.15 | 26 | 0.08 | 1000 |
| CIB 10J 300 | 0.8 \pm 0.15 | 30 | 0.08 | 1000 |
| CIB 10P 300 | 0.8 \pm 0.15 | 30 | 0.08 | 1000 |
| CIB 10P 330 | 0.8 \pm 0.15 | 33 | 0.08 | 1000 |
| CIM 10U 800 | 0.8 \pm 0.15 | 80 | 0.15 | 600 |
| CIM 10U 121 | 0.8 \pm 0.15 | 120 | 0.15 | 500 |
| CIM 10U 221 | 0.8 \pm 0.15 | 220 | 0.30 | 400 |
| CIM 10U 241 | 0.8 \pm 0.15 | 240 | 0.30 | 400 |
| CIM 10U 301 | 0.8 \pm 0.15 | 300 | 0.3 | 400 |
| CIM 10U 471 | 0.8 \pm 0.15 | 470 | 0.35 | 300 |
| CIM 10U 601 | 0.8 \pm 0.15 | 600 | 0.45 | 300 |
| CIM 10U 102 | 0.8 \pm 0.15 | 1000 | 0.60 | 250 |
| CIM 10U 202 | 0.8 \pm 0.15 | 2000(at 70MHz) | 1.20 | 200 |
| CIB 10J 300 | 0.8 \pm 0.15 | 30 | 0.08 | 1000 |
| CIM 10J 400 | 0.8 \pm 0.15 | 40 | 0.12 | 600 |
| CIM 10J 470 | 0.8 \pm 0.15 | 47 | 0.12 | 600 |
| CIM 10J 600 | 0.8 \pm 0.15 | 60 | 0.12 | 600 |
| CIM 10J 750 | 0.8 \pm 0.15 | 75 | 0.12 | 550 |
| CIM 10J 800 | 0.8 \pm 0.15 | 80 | 0.20 | 550 |
| CIM 10J 121 | 0.8 \pm 0.15 | 120 | 0.20 | 500 |
| CIM 10J 151 | 0.8 \pm 0.15 | 150 | 0.20 | 400 |
| CIM 10J 221 | 0.8 \pm 0.15 | 220 | 0.30 | 400 |
| CIM 10J 241 | 0.8 \pm 0.15 | 240 | 0.30 | 400 |
| CIM 10J 301 | 0.8 \pm 0.15 | 300 | 0.35 | 400 |
| CIM 10J 331 | 0.8 \pm 0.15 | 330 | 0.35 | 400 |
| CIM 10J 471 | 0.8 \pm 0.15 | 470 | 0.35 | 300 |
| CIM 10J 601 | 0.8 \pm 0.15 | 600 | 0.45 | 300 |
| CIM 10J 751 | 0.8 \pm 0.15 | 750 | 0.55 | 300 |
| CIM 10J 102 | 0.8 \pm 0.15 | 1000 | 0.70 | 250 |
| CIM 10J 152 | 0.8 \pm 0.15 | 1500 | 1.00 | 250 |
| CIM 10J 252 | 0.8 \pm 0.15 | 2500 | 1.50 | 200 |
| CIM 10K 152 | 0.8 \pm 0.15 | 1500 | 0.80 | 250 |
| CIM 10K 202 | 0.8 \pm 0.15 | 2000 | 1.00 | 200 |
| CIM 10K 252 | 0.8 \pm 0.15 | 2500 | 1.20 | 200 |
| CIM 10N 700 | 0.8 \pm 0.15 | 70 | 0.30 | 500 |
| CIM 10N 121 | 0.8 \pm 0.15 | 120 | 0.45 | 400 |
| CIM 10N 241 | 0.8 \pm 0.15 | 240 | 0.60 | 300 |
| CIM 10 F 470 | 0.8 \pm 0.15 | 47 | 0.25 | 550 |
| CIM 10 F 600 | 0.8 \pm 0.15 | 60 | 0.25 | 550 |
| CIM 10 F 121 | 0.8 \pm 0.15 | 120 | 0.30 | 500 |
| CIM 10 F 331 | 0.8 \pm 0.15 | 330 | 0.58 | 400 |
| CIM 10 F471 | 0.8 \pm 0.15 | 470 | 0.85 | 300 |

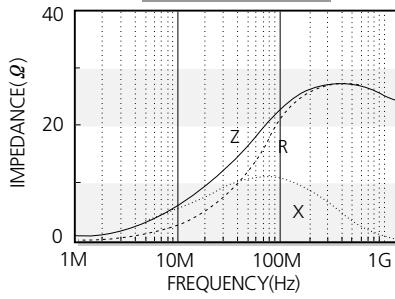
※Test equipment: Agilent E4991A + 16192A

Electrical Characteristics

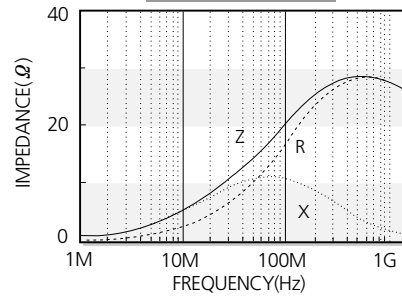
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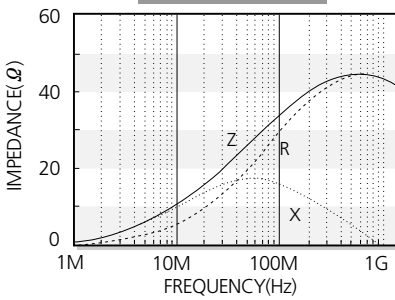
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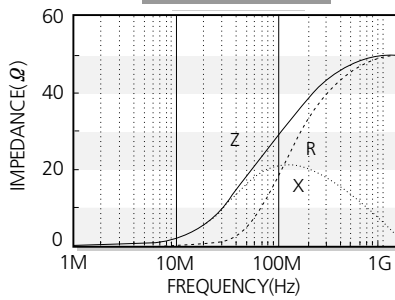
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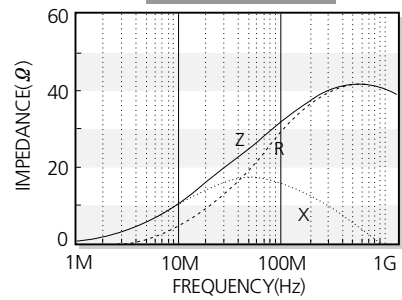
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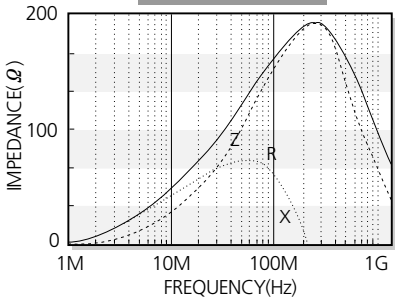
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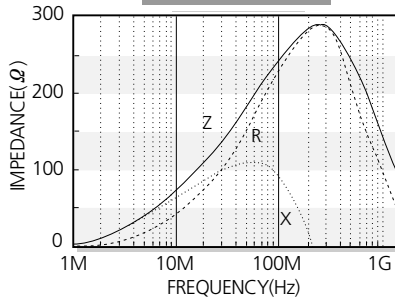
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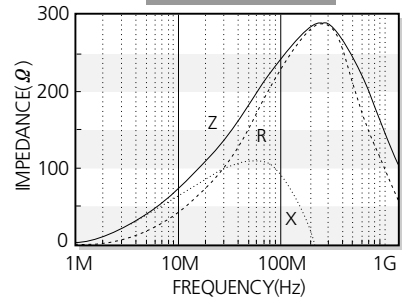
CIM10U121



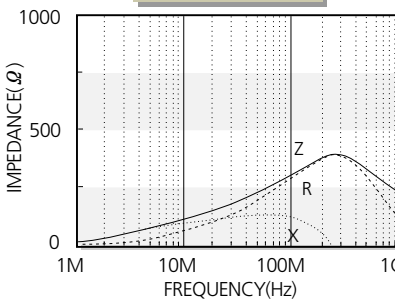
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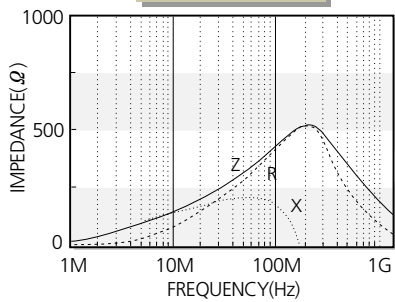
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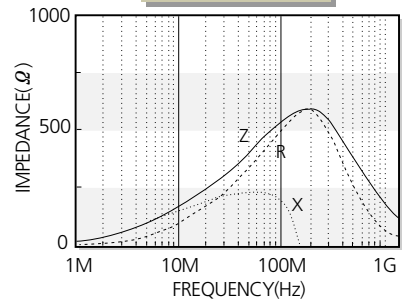
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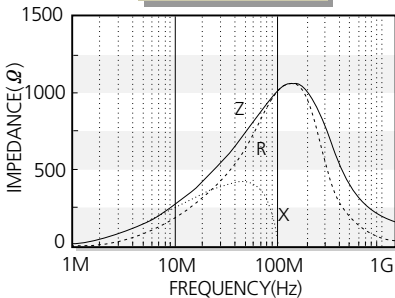
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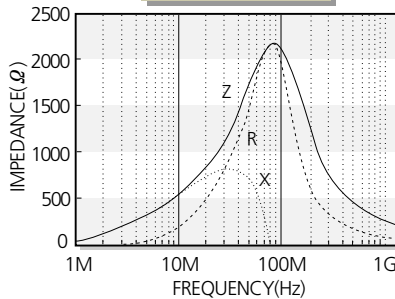
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CIM10U102

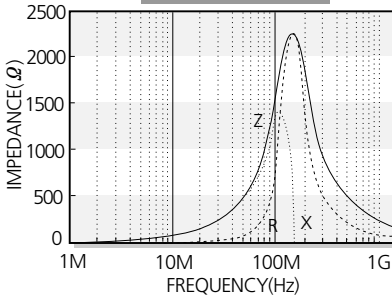


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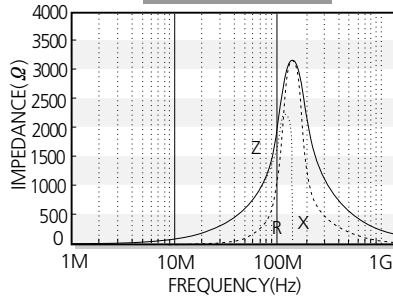


Electrical Characteristics

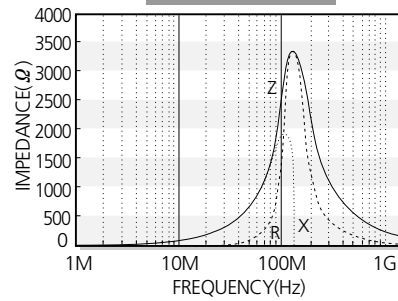
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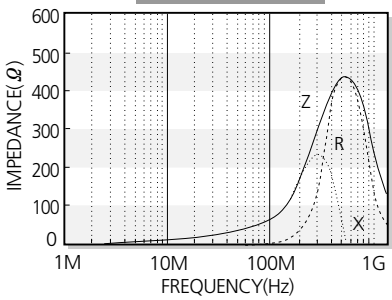
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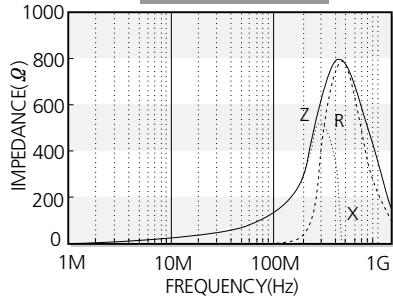
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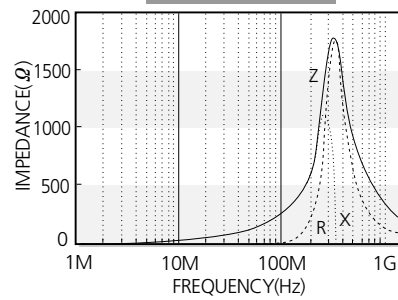
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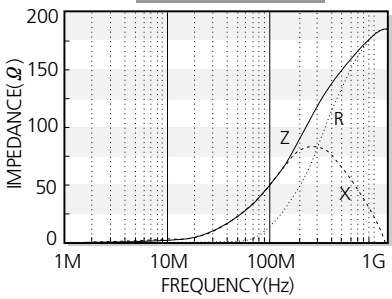
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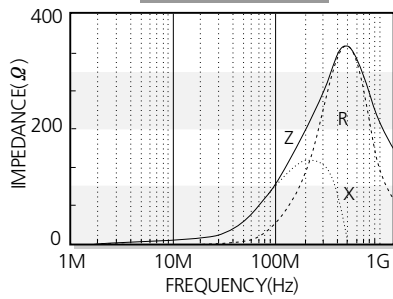
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CIM10F600



CIM10F121





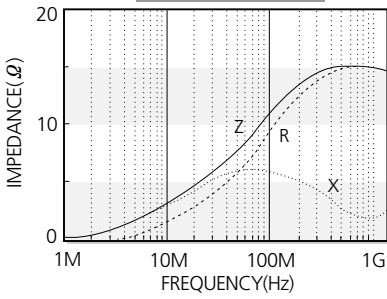
CIB/CIM 2012(0805) Type

| Part No. | Thickness (mm) | Impedance (Ω) $\pm 25\%$ @ 100 MHz | DC Resistance (Ω) Max. | Rated Current (mA) Max. |
|-------------|----------------|---|---------------------------------|-------------------------|
| CIB 21P 110 | 0.9 \pm 0.2 | 11 | 0.05 | 2000 |
| CIB 21P 150 | 0.9 \pm 0.2 | 15 | 0.05 | 2000 |
| CIB 21P 260 | 0.9 \pm 0.2 | 26 | 0.05 | 2000 |
| CIB 21P 330 | 0.9 \pm 0.2 | 33 | 0.05 | 1500 |
| CIB 21P 470 | 0.9 \pm 0.2 | 47 | 0.05 | 1500 |
| CIM 21U 800 | 0.9 \pm 0.2 | 80 | 0.10 | 900 |
| CIM 21U 101 | 0.9 \pm 0.2 | 100 | 0.10 | 500 |
| CIM 21U 121 | 0.9 \pm 0.2 | 120 | 0.10 | 500 |
| CIM 21U 151 | 0.9 \pm 0.2 | 150 | 0.15 | 400 |
| CIM 21U 241 | 0.9 \pm 0.2 | 240 | 0.15 | 400 |
| CIM 21U 301 | 0.9 \pm 0.2 | 300 | 0.15 | 400 |
| CIM 21U 471 | 0.9 \pm 0.2 | 470 | 0.25 | 400 |
| CIM 21U 601 | 0.9 \pm 0.2 | 600 | 0.30 | 400 |
| CIM 21U 102 | 0.9 \pm 0.2 | 1000(at 70MHz) | 0.45 | 400 |
| CIM 21U 202 | 0.9 \pm 0.2 | 2000(at 70MHz) | 0.70 | 300 |
| CIB 21J 260 | 0.9 \pm 0.2 | 26 | 0.05 | 2000 |
| CIB 21J 400 | 0.9 \pm 0.2 | 40 | 0.05 | 2000 |
| CIM 21J 600 | 0.9 \pm 0.2 | 60 | 0.08 | 900 |
| CIM 21J 800 | 0.9 \pm 0.2 | 80 | 0.08 | 900 |
| CIM 21J 121 | 0.9 \pm 0.2 | 120 | 0.15 | 600 |
| CIM 21J 151 | 0.9 \pm 0.2 | 150 | 0.15 | 500 |
| CIM 21J 221 | 0.9 \pm 0.2 | 220 | 0.20 | 400 |
| CIM 21J 241 | 0.9 \pm 0.2 | 240 | 0.20 | 400 |
| CIM 21J 301 | 0.9 \pm 0.2 | 300 | 0.25 | 400 |
| CIM 21J 471 | 0.9 \pm 0.2 | 470 | 0.25 | 400 |
| CIM 21J 601 | 0.9 \pm 0.2 | 600 | 0.25 | 400 |
| CIM 21J 102 | 0.9 \pm 0.2 | 1000 | 0.40 | 400 |
| CIM 21J 152 | 0.9 \pm 0.2 | 1500(at 70MHz) | 0.55 | 300 |
| CIM 21J 182 | 0.9 \pm 0.2 | 1800(at 70MHz) | 0.45 | 300 |
| CIM 21J 202 | 0.9 \pm 0.2 | 2000(at 70MHz) | 0.70 | 300 |
| CIM 21J 222 | 0.9 \pm 0.2 | 2200(at 70MHz) | 0.70 | 300 |
| CIM 21J 252 | 0.9 \pm 0.2 | 2500(at 70MHz) | 0.70 | 300 |
| CIM 21K 152 | 0.9 \pm 0.2 | 1500 | 0.45 | 300 |
| CIM 21K 252 | 0.9 \pm 0.2 | 2500 | 0.80 | 250 |
| CIM 21N 700 | 0.9 \pm 0.2 | 70 | 0.20 | 600 |
| CIM 21N 121 | 0.9 \pm 0.2 | 120 | 0.25 | 500 |
| CIM 21N 241 | 0.9 \pm 0.2 | 240 | 0.3 | 400 |

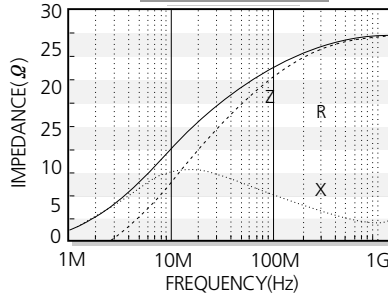
※Test equipment: Agilent E4991A + 16192A

Electrical Characteristics

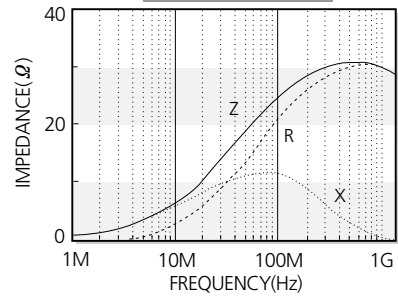
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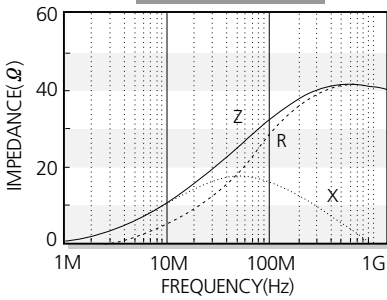
CIB21P150



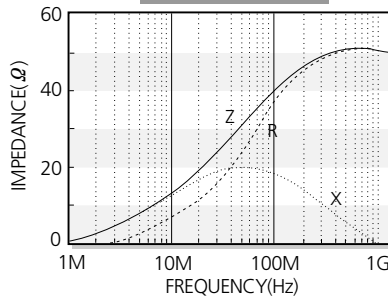
CIB21P260



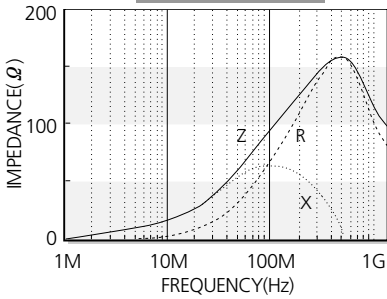
CIB21P330



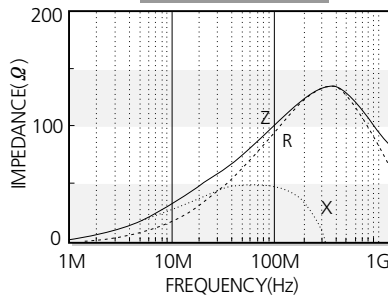
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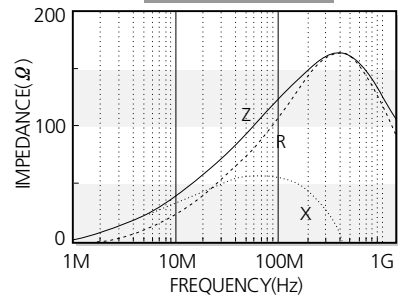
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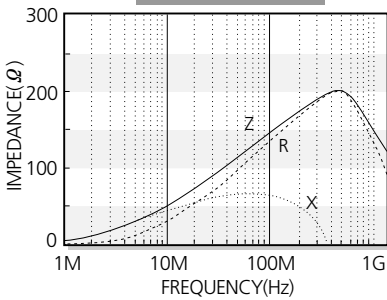
CIM21U101



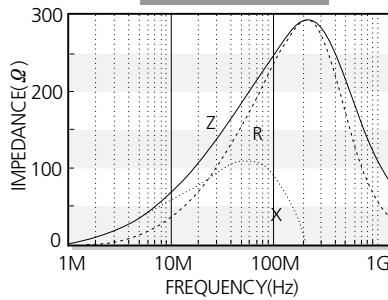
CIM21U121



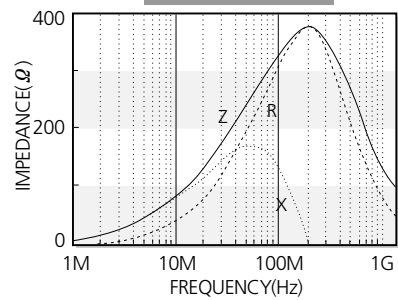
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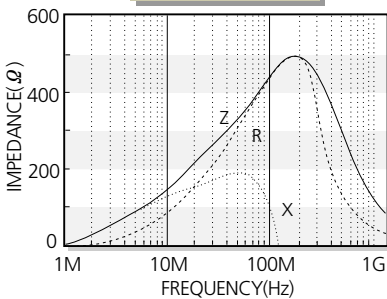
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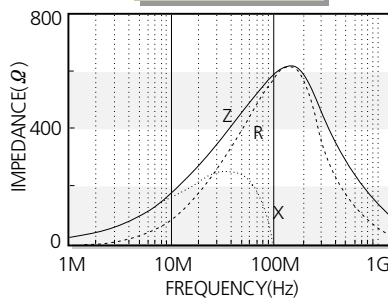
CIM21U301



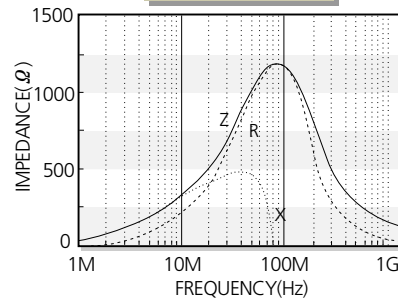
CIM21U471



CIM21U601

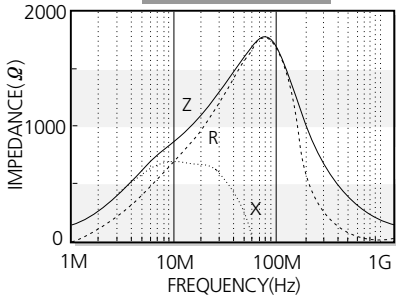


CIM21U102

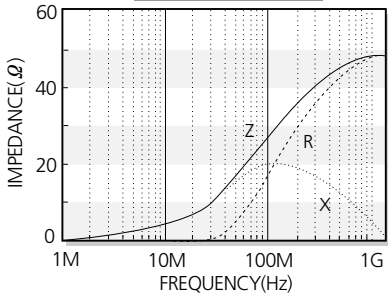


Electrical Characteristics

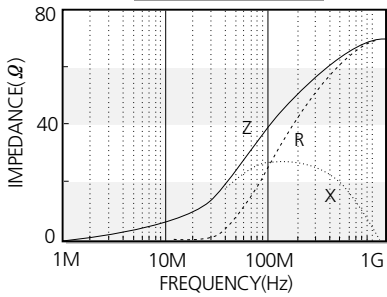
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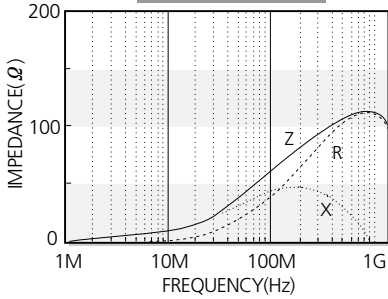
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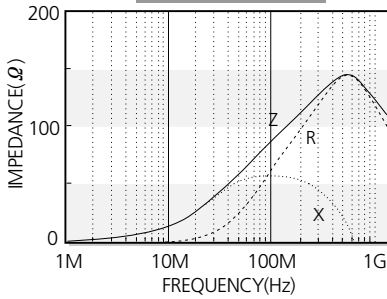
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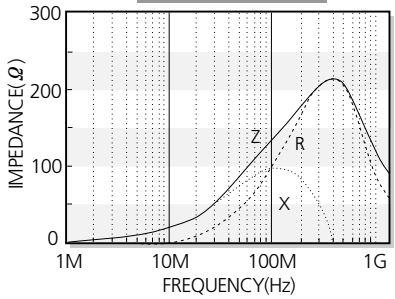
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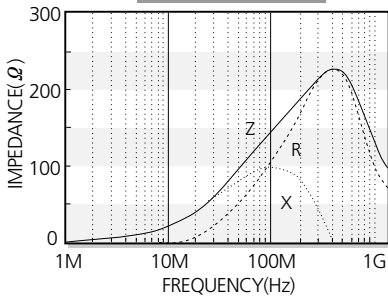
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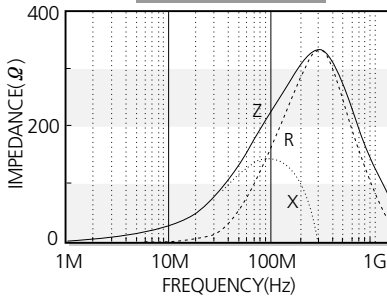
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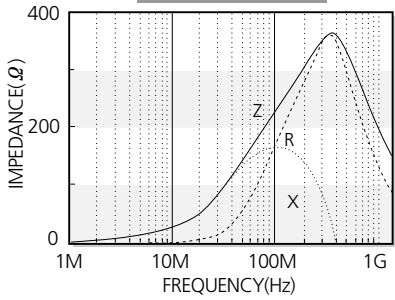
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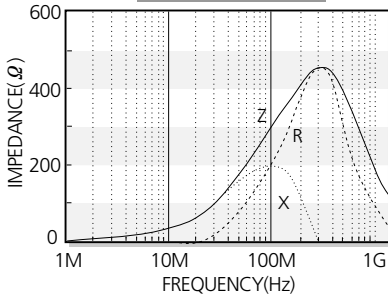
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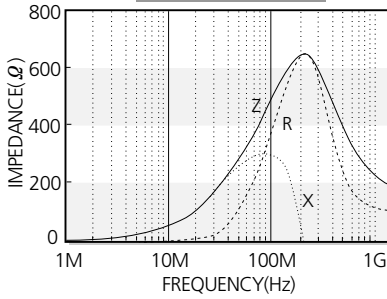
CIM21J241



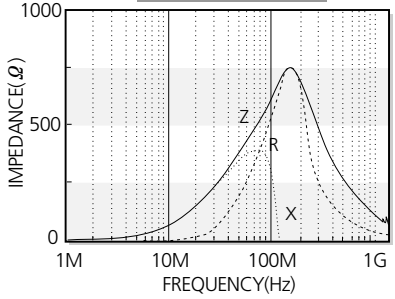
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CIM21J471

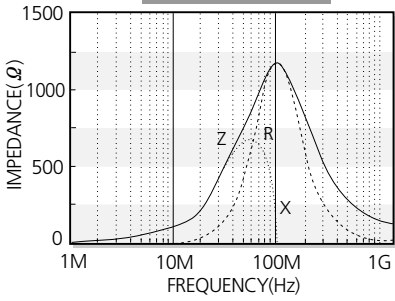


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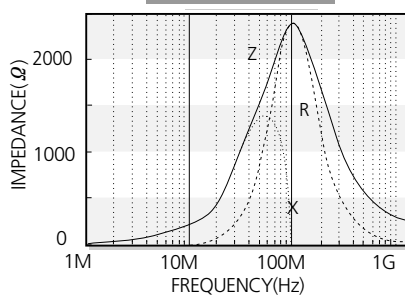


Electrical Characteristics

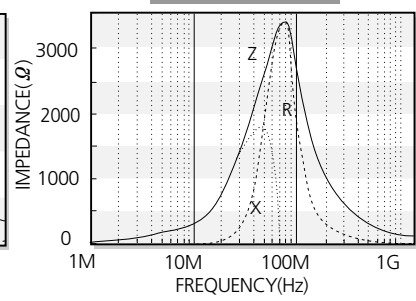
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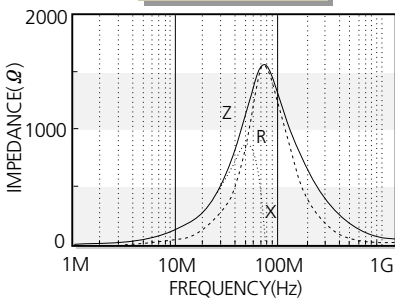
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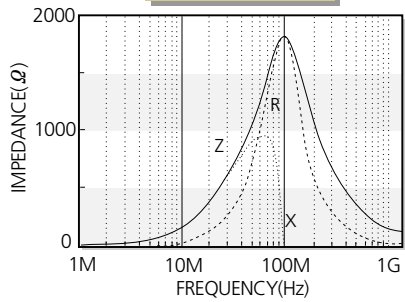
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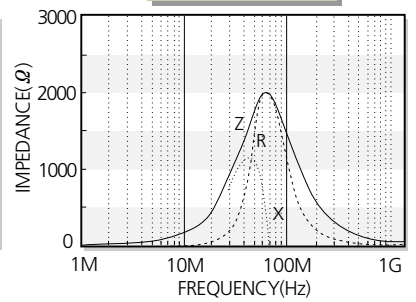
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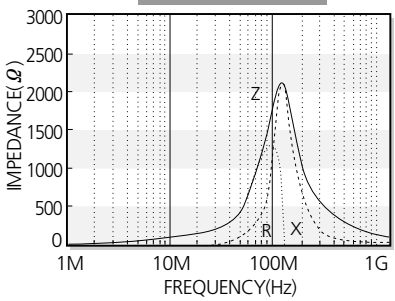
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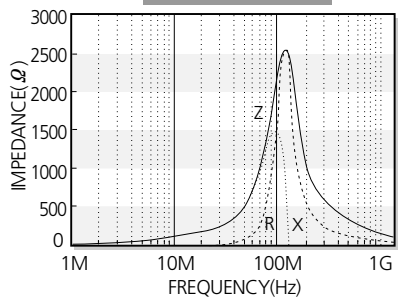
CIM21J202



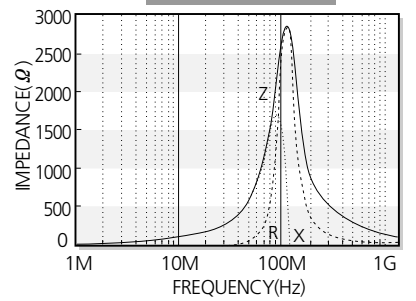
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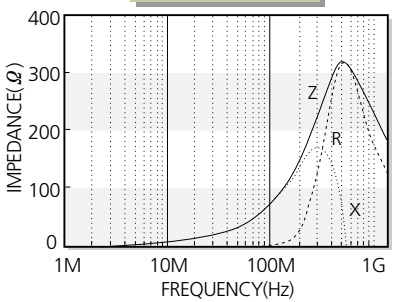
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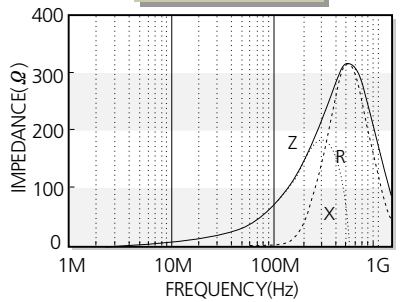
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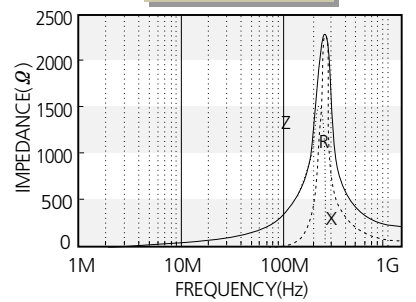
CIM21N700



CIM21N121



CIM21N241





CIB/CIM 3216(1206) Type

| Part No. | Thickness (mm) | Impedance (Ω) $\pm 25\%$ @ 100 MHz | DC Resistance (Ω) Max. | Rated Current (mA) Max. |
|-------------|----------------|---|---------------------------------|-------------------------|
| CIB 31P 260 | 1.1 \pm 0.2 | 26 | 0.05 | 2000 |
| CIB 31P 310 | 1.1 \pm 0.2 | 31 | 0.05 | 2000 |
| CIB 31P 500 | 1.1 \pm 0.2 | 50 | 0.05 | 2000 |
| CIB 31P 600 | 1.1 \pm 0.2 | 60 | 0.05 | 1500 |
| CIB 31P 700 | 1.1 \pm 0.2 | 70 | 0.1 | 1500 |
| CIM 31U 101 | 1.1 \pm 0.2 | 100 | 0.15 | 500 |
| CIM 31U 601 | 1.1 \pm 0.2 | 600 | 0.3 | 400 |
| CIM 31J 151 | 1.1 \pm 0.2 | 150 | 0.2 | 500 |
| CIM 31J 221 | 1.1 \pm 0.2 | 220 | 0.2 | 400 |
| CIM 31J 301 | 1.1 \pm 0.2 | 300 | 0.25 | 400 |
| CIM 31J 601 | 1.1 \pm 0.2 | 600 | 0.3 | 400 |
| CIM 31J 801 | 1.1 \pm 0.2 | 800 | 0.4 | 400 |
| CIM 31J 102 | 1.1 \pm 0.2 | 1000 | 0.45 | 400 |
| CIM 31J 152 | 1.1 \pm 0.2 | 1500(at 70MHz) | 0.55 | 300 |

CIB/CIM 3225(1210), 4516(1806) Type

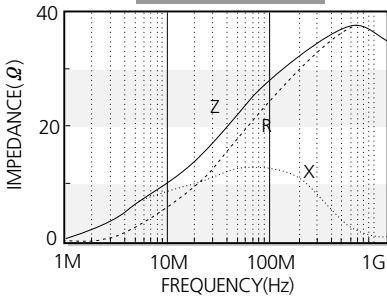
| Part No. | Thickness (mm) | Impedance (Ω) $\pm 25\%$ @ 100 MHz | DC Resistance (Ω) Max. | Rated Current (mA) Max. |
|-------------|----------------|---|---------------------------------|-------------------------|
| CIB 32P 310 | 1.3 \pm 0.2 | 31 | 0.02 | 3000 |
| CIB 32P 600 | 1.3 \pm 0.2 | 60 | 0.02 | 1500 |
| CIB 41P 800 | 1.6 \pm 0.2 | 80 | 0.03 | 1000 |
| CIB 41P 151 | 1.6 \pm 0.2 | 150 | 0.05 | 1000 |

Customized products are available.

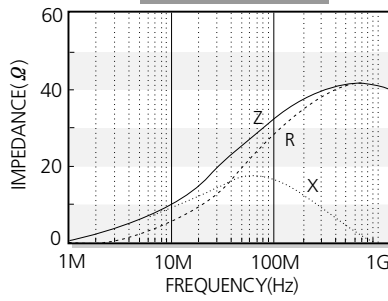
※ Test equipment: Agilent E4991A + 16192A

Electrical Characteristics

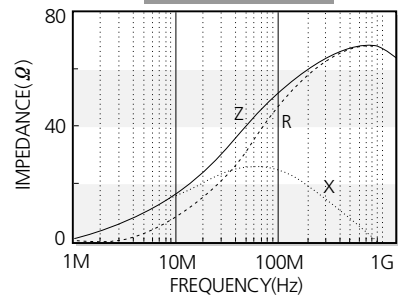
CIB31P260



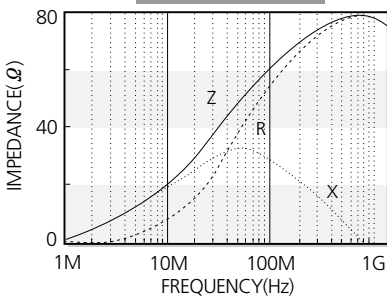
CIB31P310



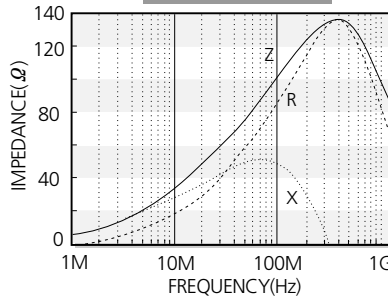
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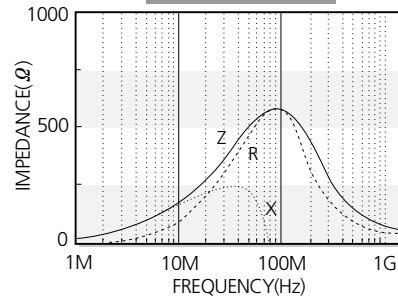
CIB31P700



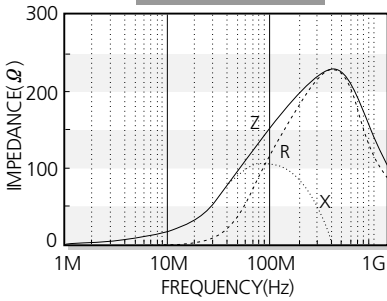
CIM31U101



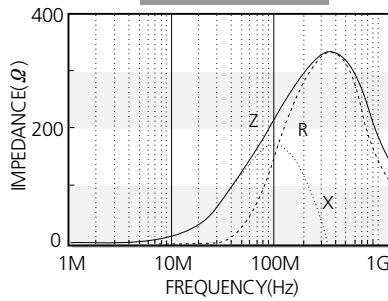
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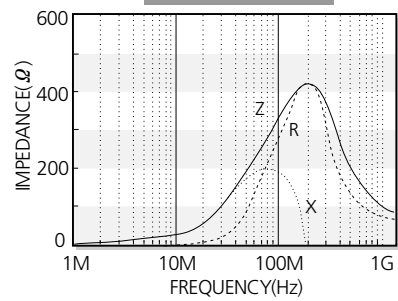
CIM31J151



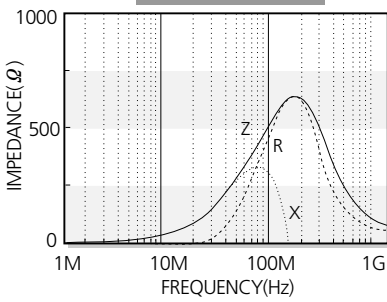
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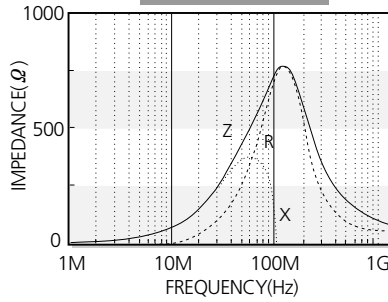
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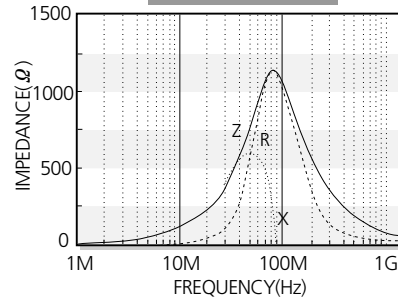
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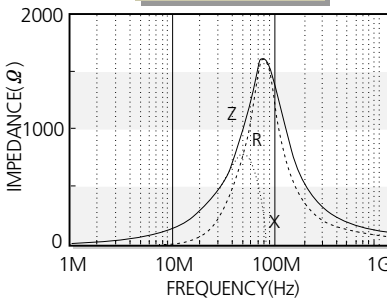
CIM31J801



CIM31J102



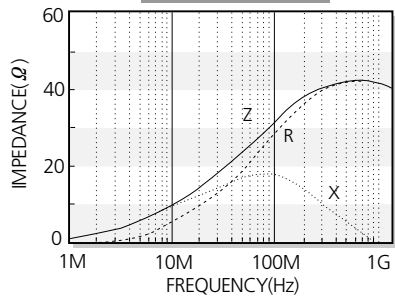
CIM31J152



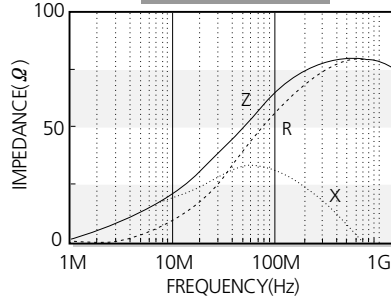
CIB/CIM
Series

Electrical Characteristics

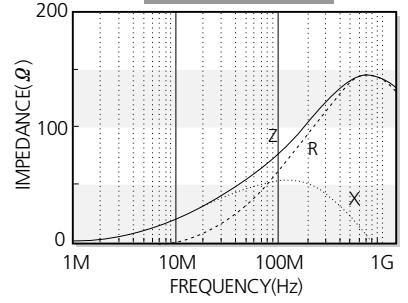
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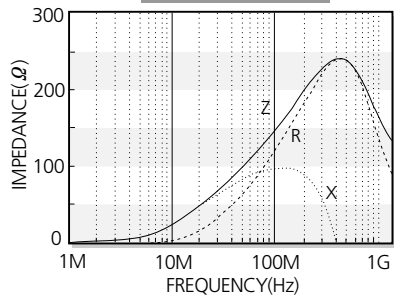
CIB32P600



CIB41P800



CIB41P151



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