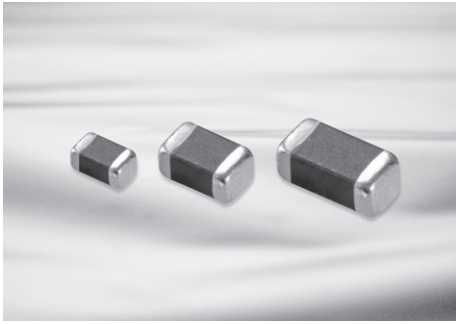


Chip Bead ; CIB/CIM Series

For EMI Suppression



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

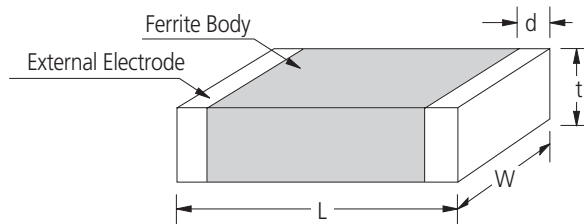
The CIB Series is composed of mono-layer internal conductor that allows low impedance and low DC resistance.

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℃
Storage Temp (After mounting)	-55~+125℃

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

Part Numbering

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

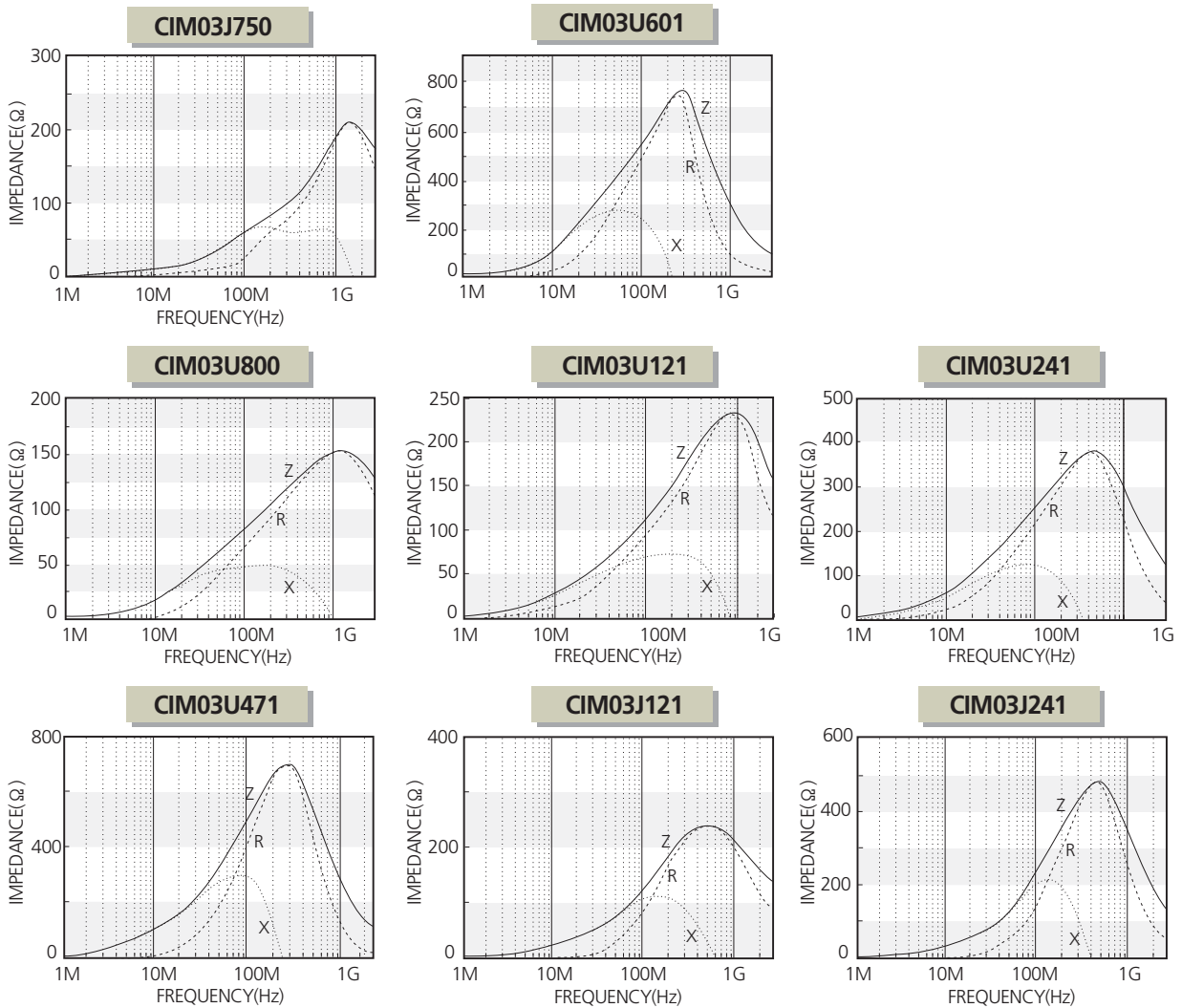
- (1) Chip Beads
- (2) B: Mono-layer type, M: Multi-layer type
- (3) Dimension
- (4) Material Code
- (5) Nominal impedance (110: 11Ω ; 121: 120Ω)
- (6) Thickness option (N: Standard, A: Thinner than standard, B: Thicker than standard)
- (7) Packaging (C: paper tape, E: embossed tape)

CIM 0603(0201) Type

Part No.	Thickness (mm)	Impedance (Ω) $\pm 25\%$ @100 MHz	DC Resistance (Ω) Max.	Rated Current (mA) Max.
CIM 03U 800N □	0.3 \pm 0.03	80	0.40	200
CIM 03U 121N □	0.3 \pm 0.03	120	0.50	200
CIM 03U 241N □	0.3 \pm 0.03	240	0.75	200
CIM 03U 471N □	0.3 \pm 0.03	470	1.30	100
CIM 03U 601N □	0.3 \pm 0.03	600	1.50	100
CIM 03J 750N □	0.3 \pm 0.03	75	0.50	300
CIM 03J 121N □	0.3 \pm 0.03	120	0.50	200
CIM 03J 241N □	0.3 \pm 0.03	240	1.00	100

* Test equipment : Agilent E4991A +16197A or Equivalent

Electrical Characteristics



CIB/CIM1005(0402) Type

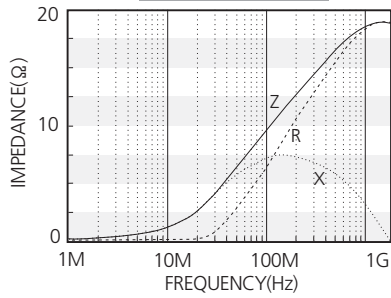
Part No.	Thickness (mm)	Impedance (Ω) $\pm 25\%$ @100 MHz	DC Resistance (Ω) Max.	Rated Current (mA) Max.
CIB 05J 100 N□	0.5±0.05	10(typ.)	0.05	1200
CIM 05U 100 N□	0.5±0.05	10	0.05	1200
CIM 05U 300 N□	0.5±0.05	30	0.10	700
CIM 05U 600 N□	0.5±0.05	60	0.15	600
CIM 05U 800 N□	0.5±0.05	80	0.20	600
CIM 05U 121 N□	0.5±0.05	120	0.25	600
CIM 05U 221 N□	0.5±0.05	220	0.35	500
CIM 05U 241 N□	0.5±0.05	240	0.35	400
CIM 05U 301 N□	0.5±0.05	300	0.45	400
CIM 05U 471 N□	0.5±0.05	470	0.55	300
CIM 05U 601 N□	0.5±0.05	600	0.60	300
CIM 05U 102 N□	0.5±0.05	1000	0.80	300
CIM 05J 300 N□	0.5±0.05	30	0.20	700
CIM 05J 600 N□	0.5±0.05	60	0.20	650
CIM 05J 800 N□	0.5±0.05	80	0.25	600
CIM 05J 121 N□	0.5±0.05	120	0.25	500
CIM 05J 221 N□	0.5±0.05	220	0.35	400
CIM 05J 241 N□	0.5±0.05	240	0.35	400
CIM 05J 301 N□	0.5±0.05	300	0.45	400
CIM 05J 471 N□	0.5±0.05	470	0.55	300
CIM 05J 601 N□	0.5±0.05	600	0.60	300
CIM 05J 102 N□	0.5±0.05	1000	0.80	250
CIM 05J 152 N□	0.5±0.05	1500	1.00	250
CIM 05J 182 N□	0.5±0.05	1800	1.40	200
CIM 05N 750 N□	0.5±0.05	75	0.35	300
CIM 05N 121 N□	0.5±0.05	120	0.55	300
CIM 05N 221 N□	0.5±0.05	220	0.80	200
CIM 05F 050 N□	0.5±0.05	5	0.08	500
CIM 05F 100 N□	0.5±0.05	10	0.10	300
CIM 05F 220 N□	0.5±0.05	22	0.20	300
CIM 05F 470 N□	0.5±0.05	47	0.35	300
CIM 05F 750 N□	0.5±0.05	75	0.40	300
CIM 05F 121 N□	0.5±0.05	120	0.55	300
CIM 05F 221 N□	0.5±0.05	220	0.80	200
CIM 05H 800 N□	0.5±0.05	80	0.20	450
CIM 05H 121 N□	0.5±0.05	120	0.25	400
CIM 05H 241 N□	0.5±0.05	240	0.31	400
CIM 05H 431 N□	0.5±0.05	430	0.50	350
CIM 05H 601 N□	0.5±0.05	600	0.80	200

※ Test equipment: Agilent E4991A + 16192A or Equivalent

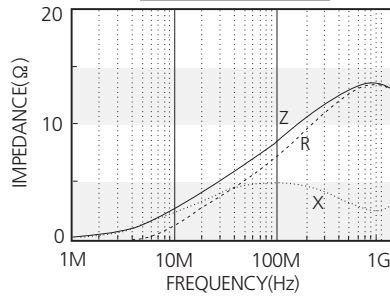
CIB/CIM Series

Electrical Characteristics

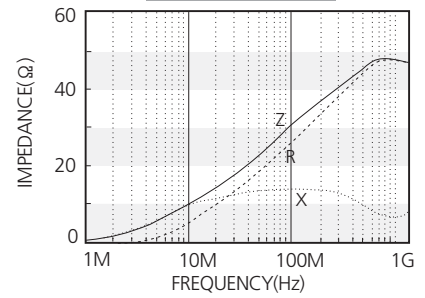
CIB05J100



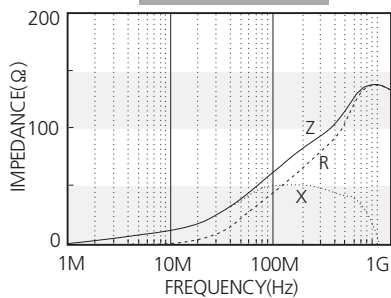
CIM05U100



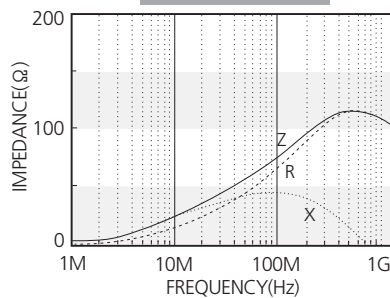
CIM05U300



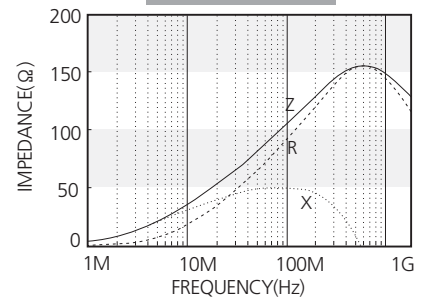
CIM05U600



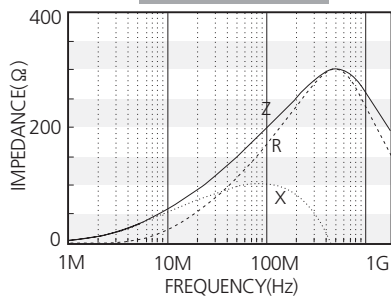
CIM05U800



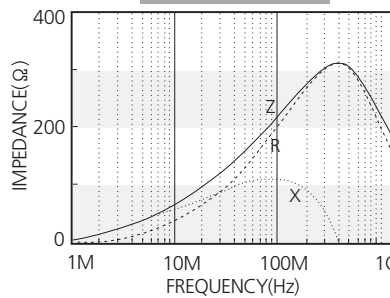
CIM05U121



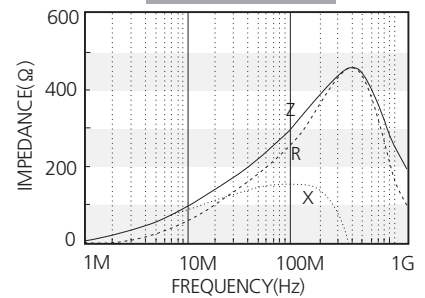
CIM05U221



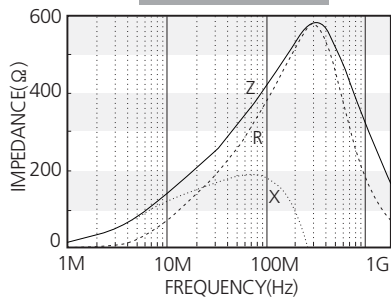
CIM05U241



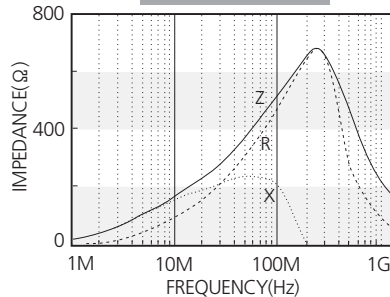
CIM05U301



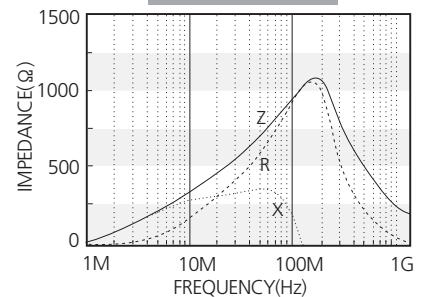
CIM05U471



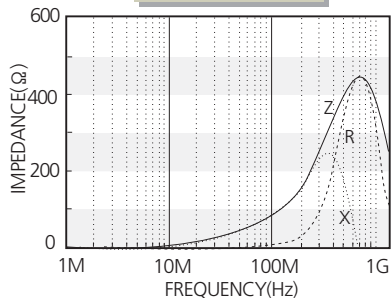
CIM05U601



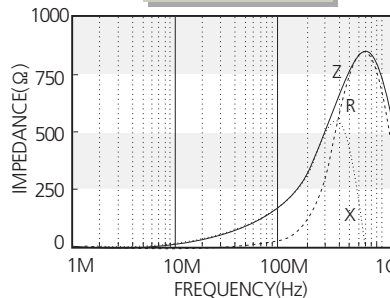
CIM05U102



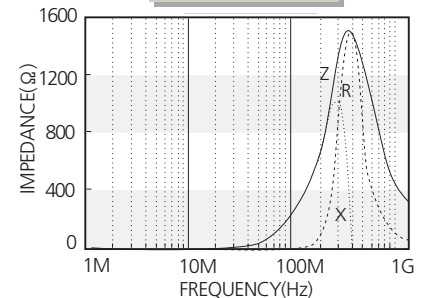
CIM05N750



CIM05N121

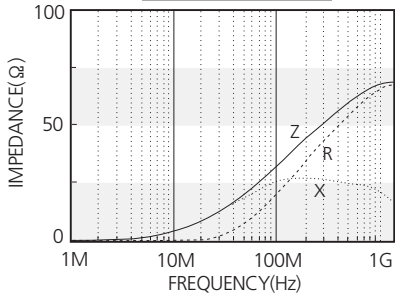


CIM05N221

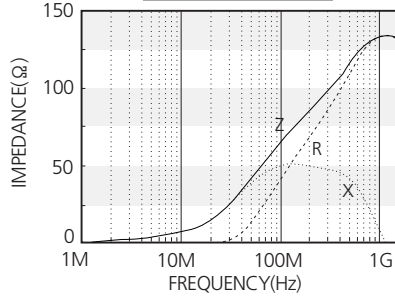


Electrical Characteristics

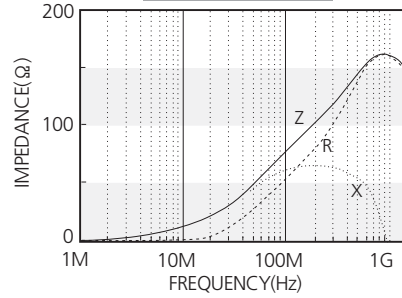
CIM05J300



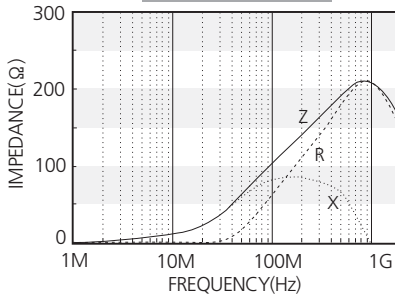
CIM05J600



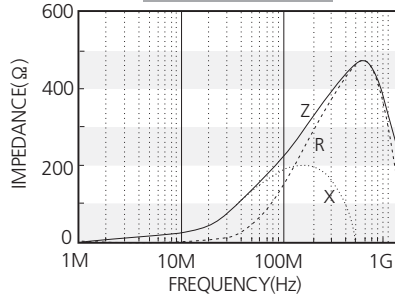
CIM05J800



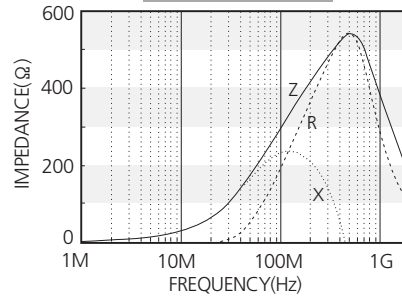
CIM05J121



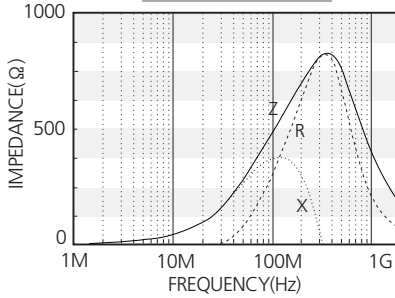
CIM05J241



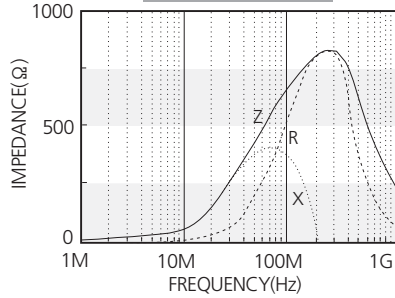
CIM05J301



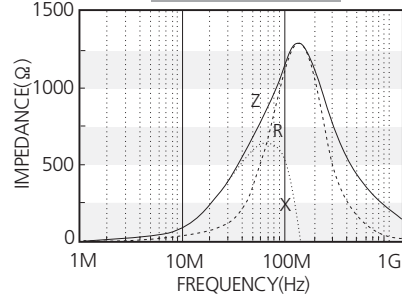
CIM05J471



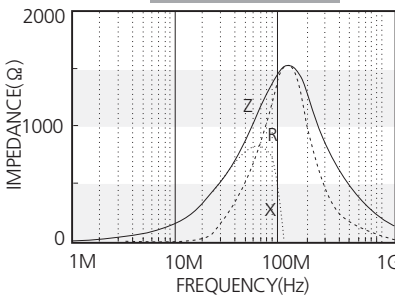
CIM05J601



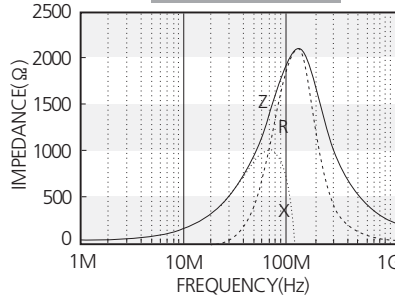
CIM05J102



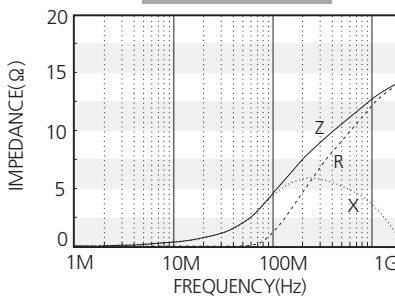
CIM05J152



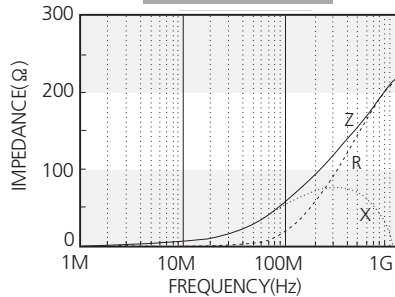
CIM05J182



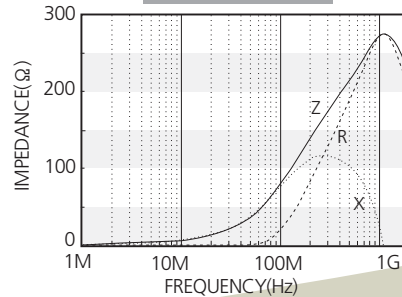
CIM05F050



CIM05F470



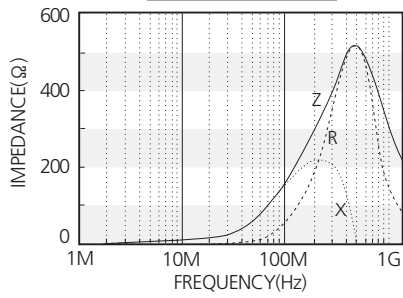
CIM05F750



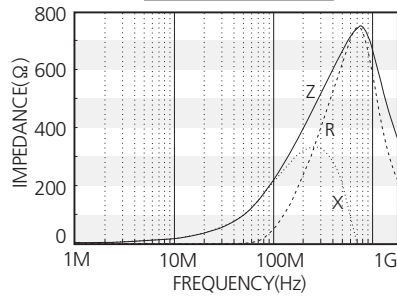
CIB/CIM
Series

Electrical Characteristics

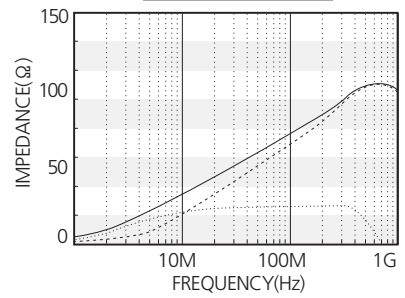
CIM05F121



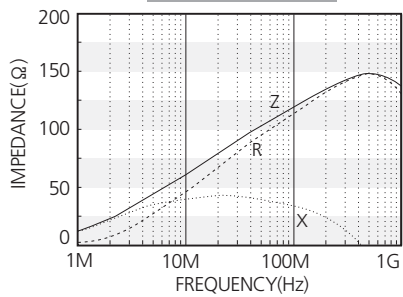
CIM05F221



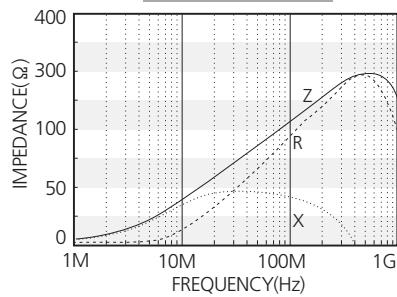
CIM05H800



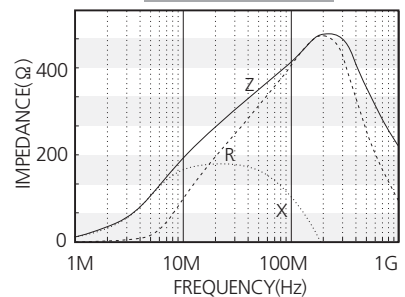
CIM05H121



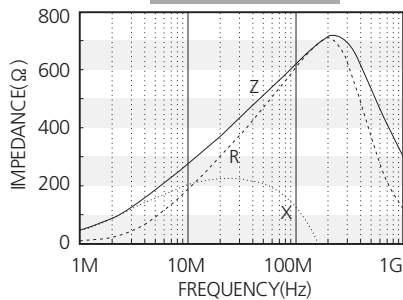
CIM05H241



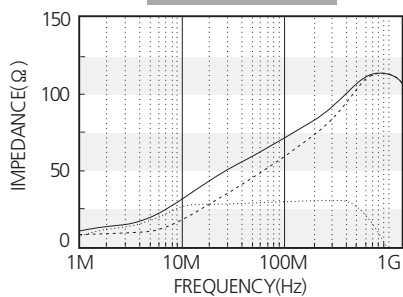
CIM05H431



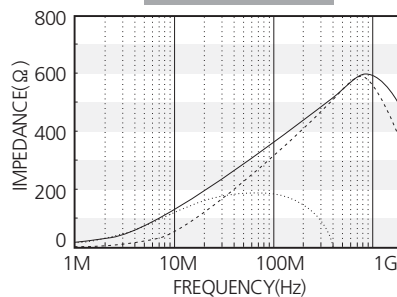
CIM05H601



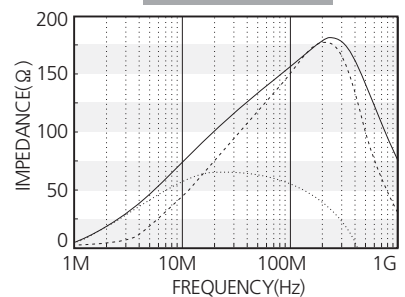
CIM05H800



CIM05H241



CIM05H121



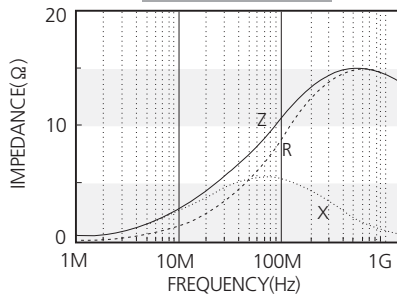
CIB/CIM 1608(0603) Type

Part No.	Thickness (mm)	Impedance (Ω) $\pm 25\%$ @100 MHz	DC Resistance (Ω) Max.	Rated Current (mA) Max.
CIB 10P 100 N □	0.8 \pm 0.15	10(typ.)	0.05	1000
CIB 10P 220 N □	0.8 \pm 0.15	22	0.05	1500
CIB 10P 260 N □	0.8 \pm 0.15	26	0.08	1000
CIB 10P 300 N □	0.8 \pm 0.15	30	0.08	1000
CIB 10P 330 N □	0.8 \pm 0.15	33	0.08	1000
CIM 10U 800 N □	0.8 \pm 0.15	80	0.10	600
CIM 10U 121 N □	0.8 \pm 0.15	120	0.15	500
CIM 10U 221 N □	0.8 \pm 0.15	220	0.25	400
CIM 10U 241 N □	0.8 \pm 0.15	240	0.25	400
CIM 10U 301 N □	0.8 \pm 0.15	300	0.30	500
CIM 10U 471 N □	0.8 \pm 0.15	470	0.35	300
CIM 10U 601 N □	0.8 \pm 0.15	600	0.38	500
CIM 10U 102 N □	0.8 \pm 0.15	1000	0.50	400
CIM 10U 202 N □	0.8 \pm 0.15	2000(at 70MHz)	1.20	200
CIB 10J 300 N □	0.8 \pm 0.15	30	0.10	1000
CIM 10J 400 N □	0.8 \pm 0.15	40	0.12	600
CIM 10J 470 N □	0.8 \pm 0.15	47	0.12	600
CIM 10J 600 N □	0.8 \pm 0.15	60	0.12	600
CIM 10J 750 N □	0.8 \pm 0.15	75	0.15	550
CIM 10J 800 N □	0.8 \pm 0.15	80	0.15	550
CIM 10J 121 N □	0.8 \pm 0.15	120	0.20	500
CIM 10J 151 N □	0.8 \pm 0.15	150	0.20	400
CIM 10J 221 N □	0.8 \pm 0.15	220	0.30	400
CIM 10J 241 N □	0.8 \pm 0.15	240	0.30	400
CIM 10J 301 N □	0.8 \pm 0.15	300	0.35	400
CIM 10J 331 N □	0.8 \pm 0.15	330	0.35	400
CIM 10J 471 N □	0.8 \pm 0.15	470	0.35	300
CIM 10J 601 N □	0.8 \pm 0.15	600	0.45	300
CIM 10J 751 N □	0.8 \pm 0.15	750	0.50	300
CIM 10J 102 N □	0.8 \pm 0.15	1000	0.60	250
CIM 10J 152 N □	0.8 \pm 0.15	1500	0.70	250
CIM 10J 252 N □	0.8 \pm 0.15	2500	1.50	200
CIM 10K 152 N □	0.8 \pm 0.15	1500	0.80	250
CIM 10K 202 N □	0.8 \pm 0.15	2000	1.00	200
CIM 10K 252 N □	0.8 \pm 0.15	2500	1.20	200
CIM 10N 700 N □	0.8 \pm 0.15	70	0.30	500
CIM 10N 121 N □	0.8 \pm 0.15	120	0.45	400
CIM 10N 241 N □	0.8 \pm 0.15	240	0.60	300
CIM 10F 470 N □	0.8 \pm 0.15	47	0.25	550
CIM 10F 600 N □	0.8 \pm 0.15	60	0.25	550
CIM 10F 121 N □	0.8 \pm 0.15	120	0.30	500
CIM 10F 331 N □	0.8 \pm 0.15	330	0.58	400
CIM 10F 471 N □	0.8 \pm 0.15	470	0.85	300

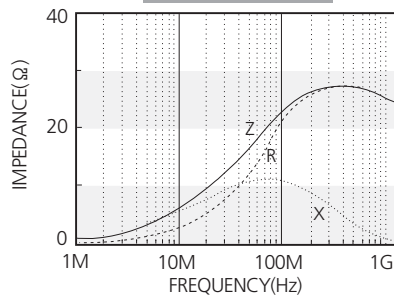
* Test equipment: Agilent E4991A + 16193A or Equivalent

Electrical Characteristics

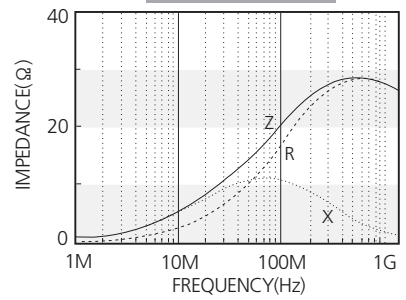
CIB10P100



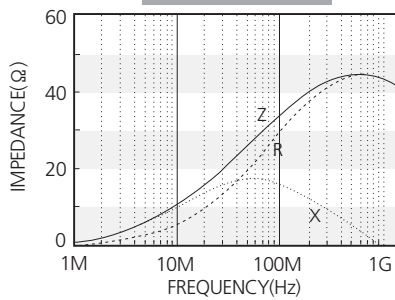
CIB10P220



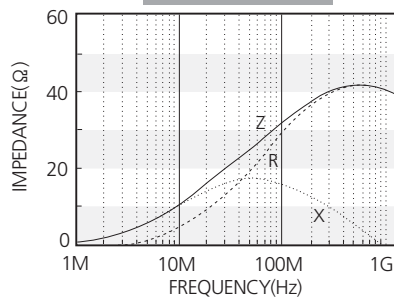
CIB10P260



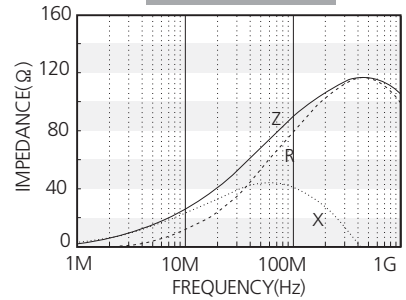
CIB10P300



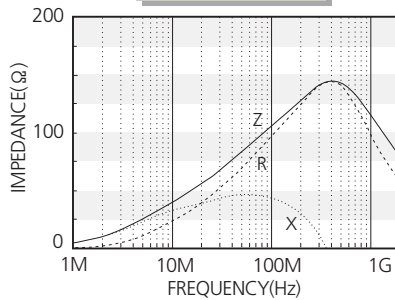
CIB10P330



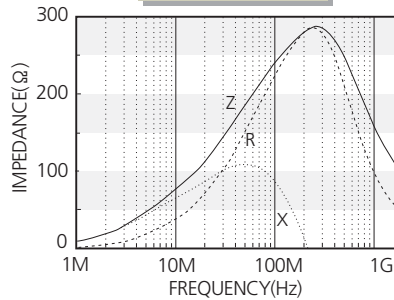
CIM10U800



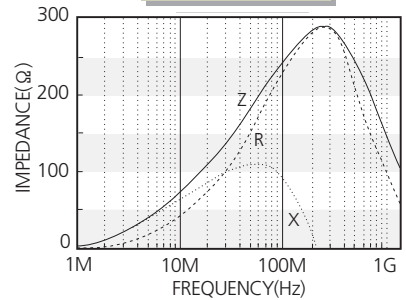
CIM10U121



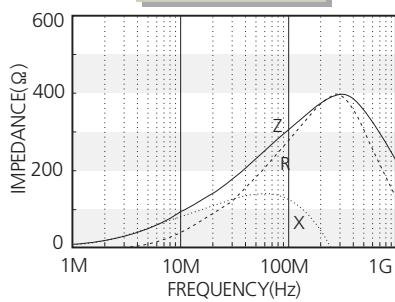
CIM10U221



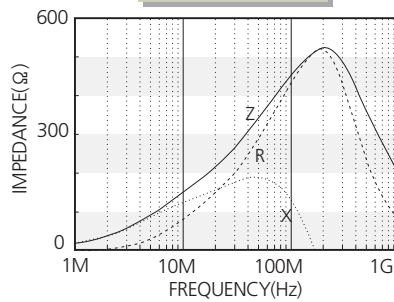
CIM10U241



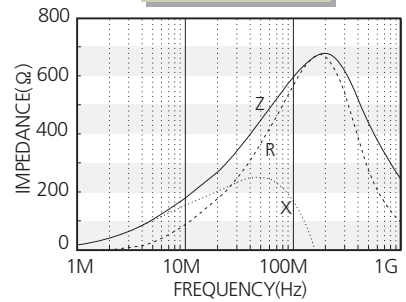
CIM10U301



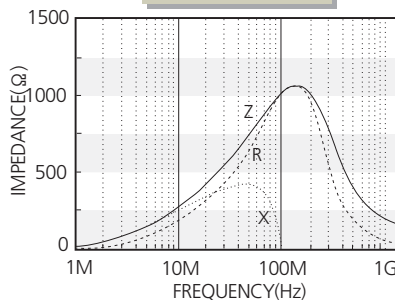
CIM10U471



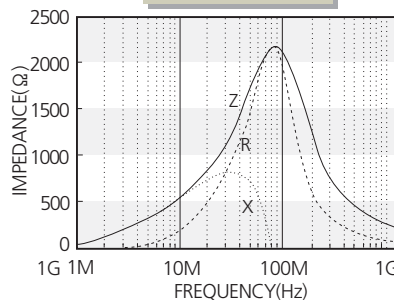
CIM10U601



CIM10U102

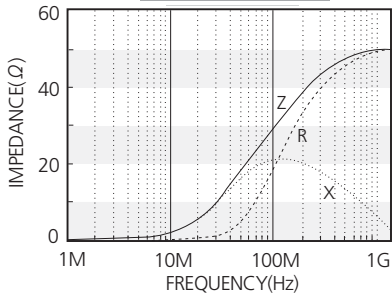


CIM10U202

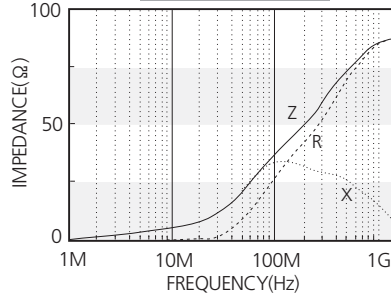


Electrical Characteristics

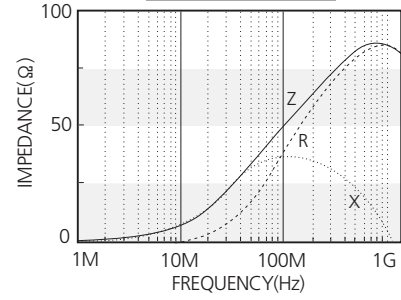
CIB10J300



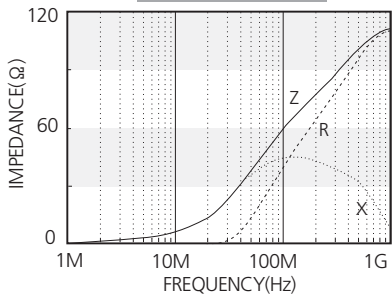
CIM10J400



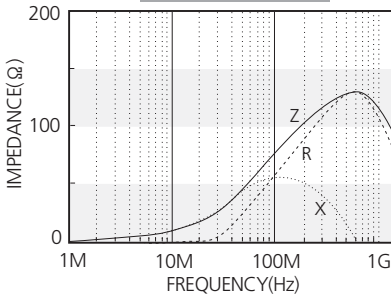
CIM10J470



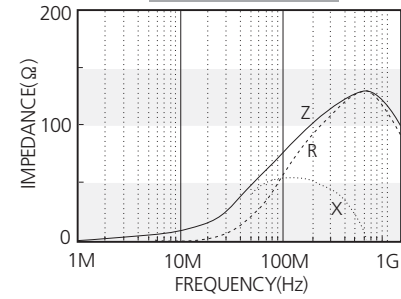
CIM10J600



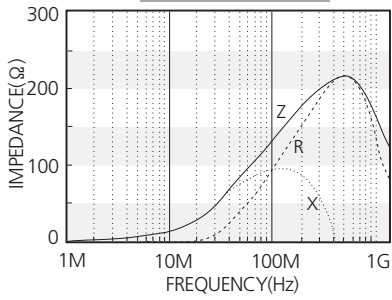
CIM10J750



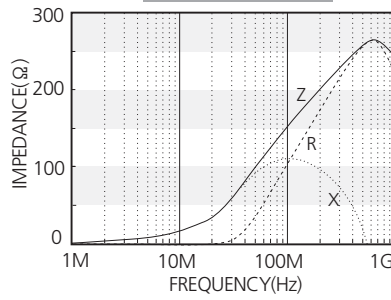
CIM10J800



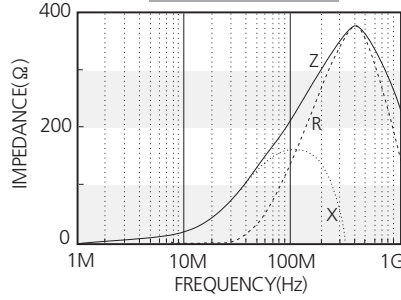
CIM10J121



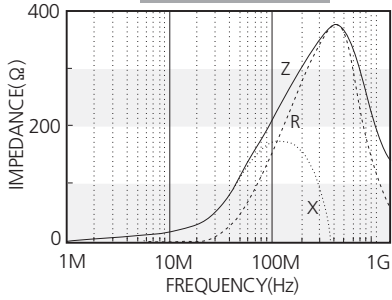
CIM10J151



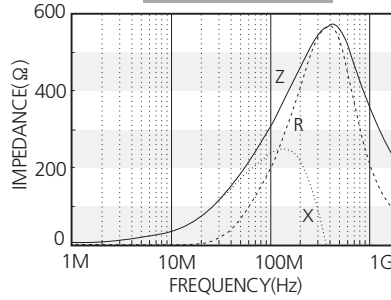
CIM10J221



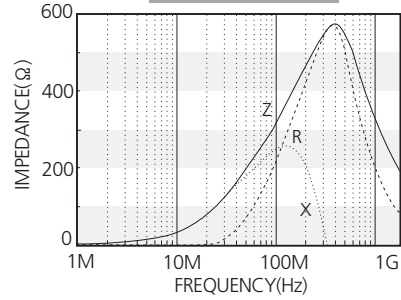
CIM10J241



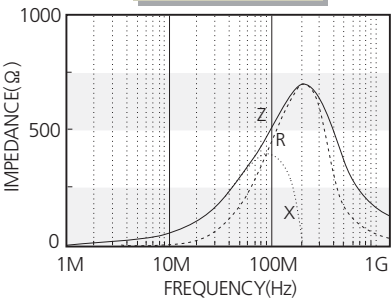
CIM10J301



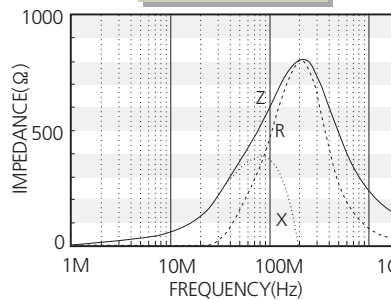
CIM10J331



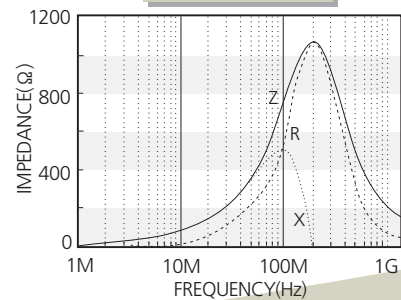
CIM10J471



CIM10J601



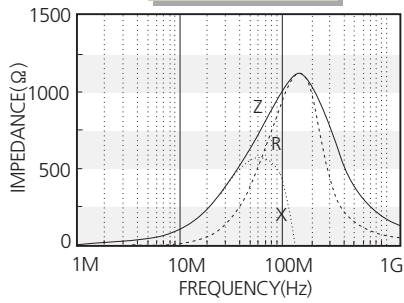
CIM10J751



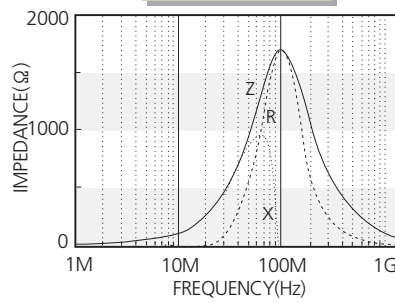
CIB/CIM
Series

Electrical Characteristics

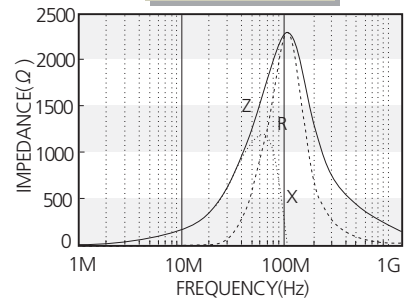
CIM10J102



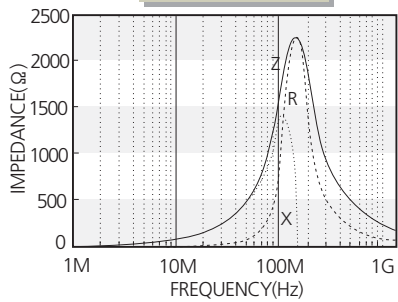
CIM10J152



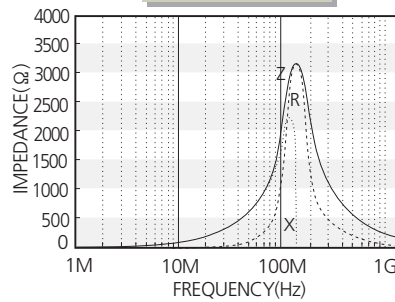
CIM10J252



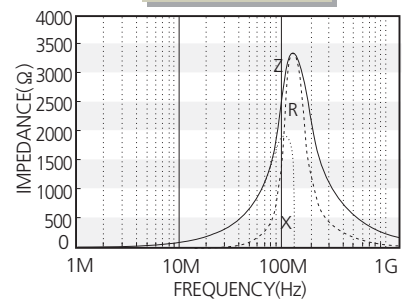
CIM10K152



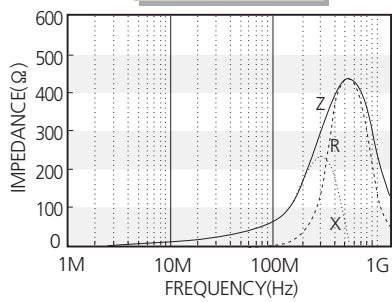
CIM10K202



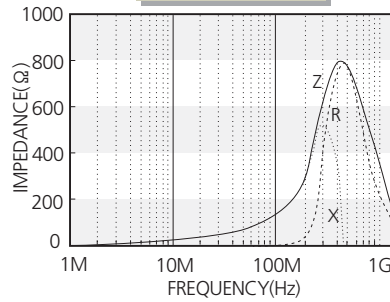
CIM10K252



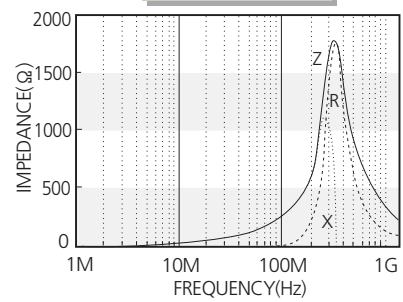
CIM10N700



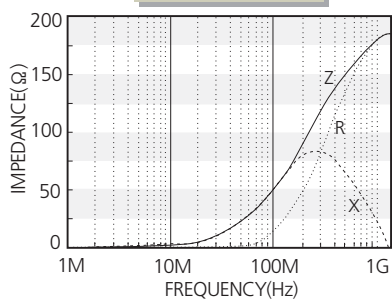
CIM10N121



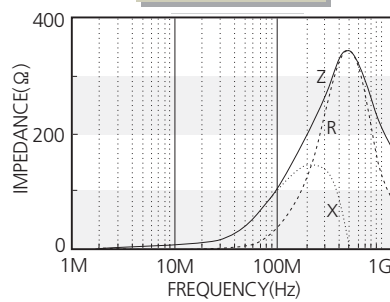
CIM10N241



CIM10F600



CIM10F121



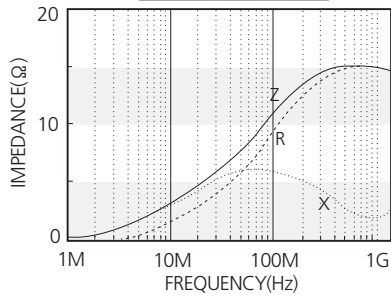
CIB/CIM 2012(0805) Type

Part No.	Thickness (mm)	Impedance (Ω) $\pm 25\%$ @100 MHz	DC Resistance (Ω) Max.	Rated Current (mA) Max.
CIB 21P 110 N □	0.9 \pm 0.2	11(typ.)	0.01	2000
CIB 21P 150 N □	0.9 \pm 0.2	15	0.01	2000
CIB 21P 260 N □	0.9 \pm 0.2	26	0.01	2000
CIB 21P 300 N □	0.9 \pm 0.2	30	0.05	2000
CIB 21P 330 N □	0.9 \pm 0.2	33	0.05	1500
CIB 21P 470 N □	0.9 \pm 0.2	47	0.05	1500
CIB 21U 600 N □	0.9 \pm 0.2	60	0.08	900
CIM 21U 800 N □	0.9 \pm 0.2	80	0.10	900
CIM 21U 101 N □	0.9 \pm 0.2	100	0.10	800
CIM 21U 121 N □	0.9 \pm 0.2	120	0.10	800
CIM 21U 151 N □	0.9 \pm 0.2	150	0.15	600
CIM 21U 241 N □	0.9 \pm 0.2	240	0.15	600
CIM 21U 301 N □	0.9 \pm 0.2	300	0.15	500
CIM 21U 471 N □	0.9 \pm 0.2	470	0.30	500
CIM 21U 601 N □	0.9 \pm 0.2	600	0.30	500
CIM 21U 102 N □	0.9 \pm 0.2	1000(at 70MHz)	0.40	500
CIM 21U 202 N □	0.9 \pm 0.2	2000(at 70MHz)	0.70	300
CIB 21J 260 N □	0.9 \pm 0.2	26	0.05	2000
CIB 21J 300 N □	0.9 \pm 0.2	30	0.05	2000
CIB 21J 400 N □	0.9 \pm 0.2	40	0.05	2000
CIM 21J 600 N □	0.9 \pm 0.2	60	0.08	900
CIM 21J 800 N □	0.9 \pm 0.2	80	0.08	1000
CIM 21J 121 N □	0.9 \pm 0.2	120	0.15	800
CIM 21J 151 N □	0.9 \pm 0.2	150	0.15	500
CIM 21J 221 N □	0.9 \pm 0.2	220	0.20	500
CIM 21J 241 N □	0.9 \pm 0.2	240	0.20	500
CIM 21J 301 N □	0.9 \pm 0.2	300	0.20	500
CIM 21J 471 N □	0.9 \pm 0.2	470	0.25	500
CIM 21J 601 N □	0.9 \pm 0.2	600	0.25	500
CIM 21J 751 N □	0.9 \pm 0.2	750	0.35	400
CIM 21J 102 N □	0.9 \pm 0.2	1000	0.35	500
CIM 21J 152 N □	0.9 \pm 0.2	1500(at 70MHz)	0.45	500
CIM 21J 182 N □	0.9 \pm 0.2	1800(at 70MHz)	0.45	500
CIM 21J 202 N □	0.9 \pm 0.2	2000(at 70MHz)	0.50	500
CIM 21J 222 N □	0.9 \pm 0.2	2200(at 70MHz)	0.70	300
CIM 21J 252 N □	0.9 \pm 0.2	2500(at 50MHz)	0.70	300
CIM 21J 302 N □	0.9 \pm 0.2	3000(at 50MHz)	0.60	300
CIM 21K 152 N □	0.9 \pm 0.2	1500	0.45	300
CIM 21K 252 N □	0.9 \pm 0.2	2500	0.80	250
CIM 21N 560 N □	0.9 \pm 0.2	56	0.20	600
CIM 21N 700 N □	0.9 \pm 0.2	70	0.20	600
CIM 21N 121 N □	0.9 \pm 0.2	120	0.25	500
CIM 21N 241 N □	0.9 \pm 0.2	240	0.30	400

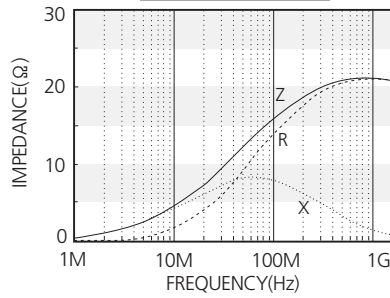
※ Test equipment: Agilent E4991A + 16193A or Equivalent

Electrical Characteristics

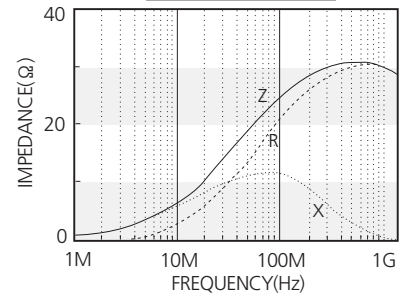
CIB21P110



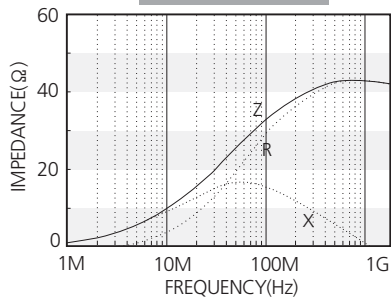
CIB21P150



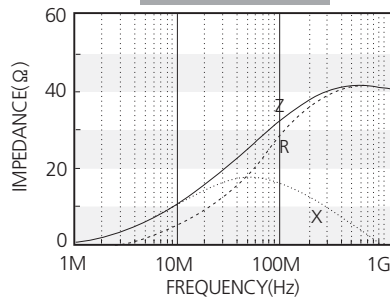
CIB21P260



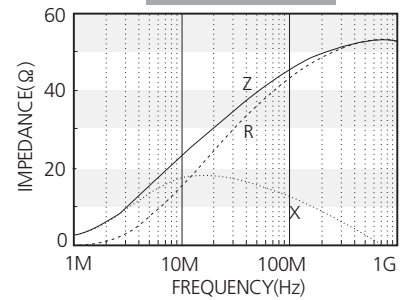
CIB21P300



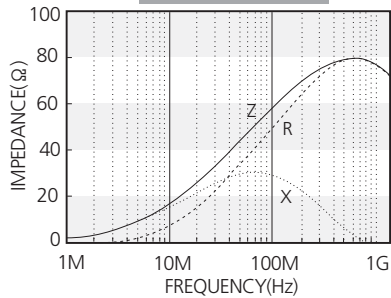
CIB21P330



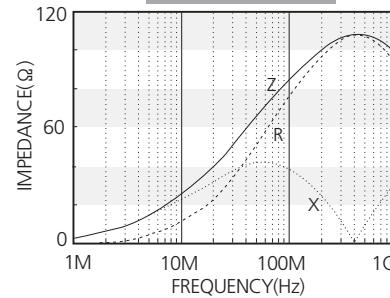
CIB21P470



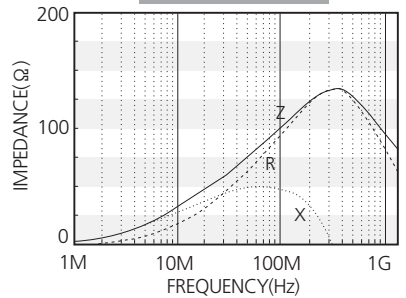
CIM21U600



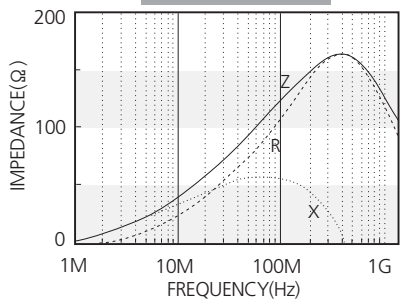
CIM21U800



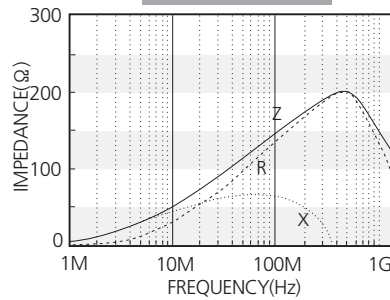
CIM21U101



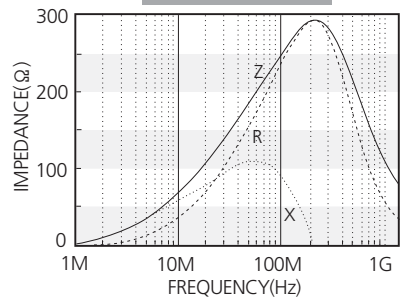
CIM21U121



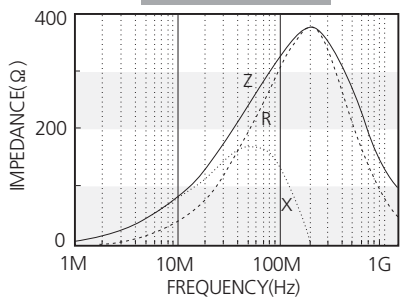
CIM21U151



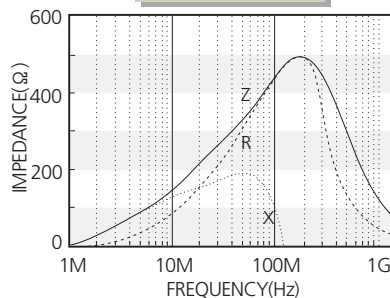
CIM21U241



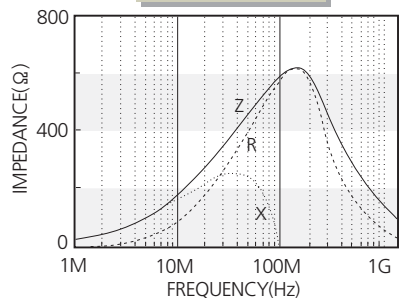
CIM21U301



CIM21U471



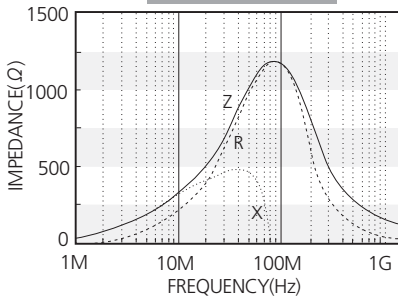
CIM21U601



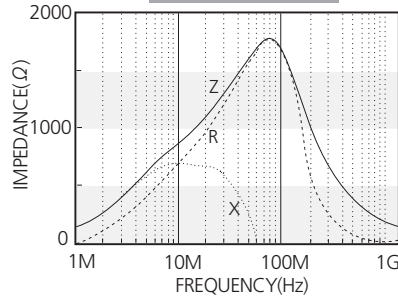
Electrical Characteristics

CIB/CIM
Series

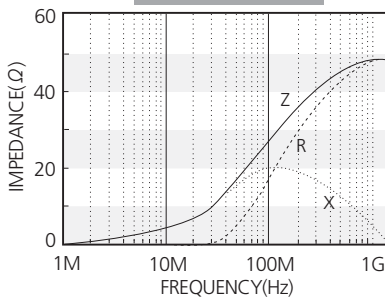
CIM21U102



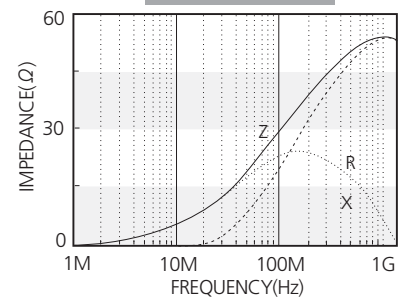
CIM21U202



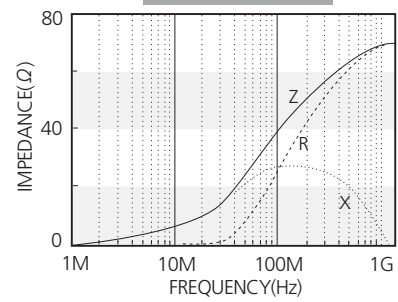
CIB21J260



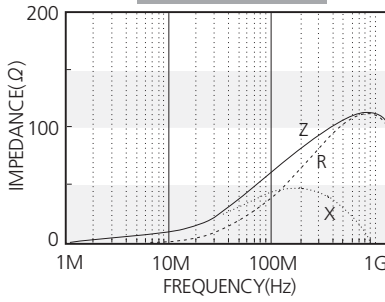
CIB21J300



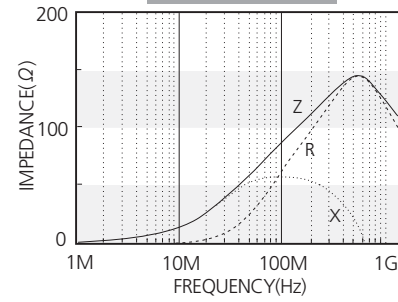
CIB21J400



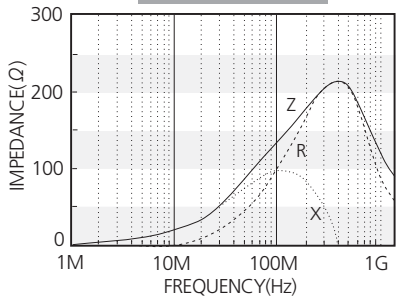
CIM21J600



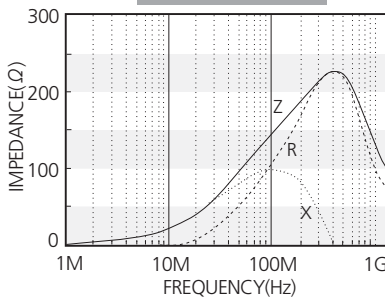
CIM21J800



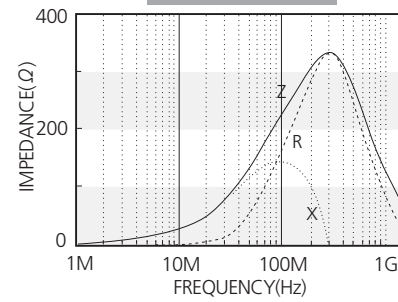
CIM21J121



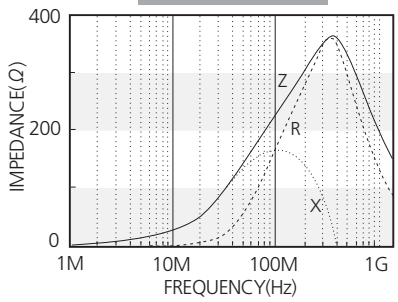
CIM21J151



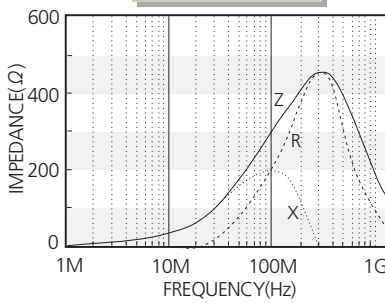
CIM21J221



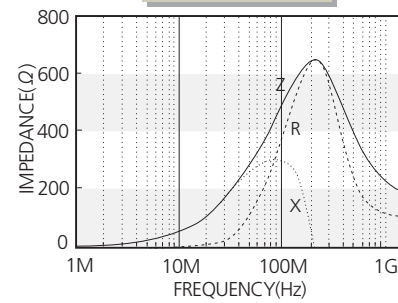
CIM21J241



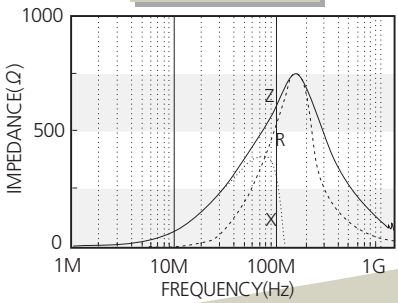
CIM21J301



CIM21J471

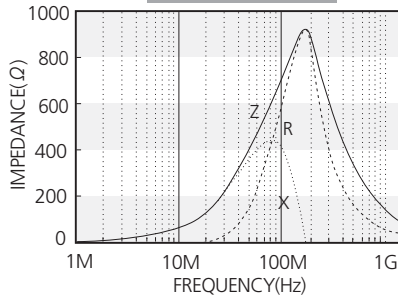


CIM21J601

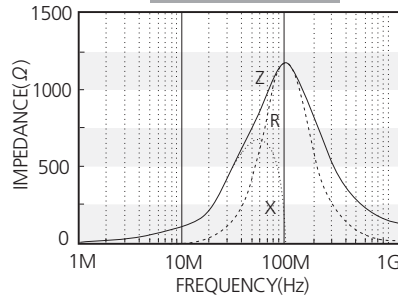


Electrical Characteristics

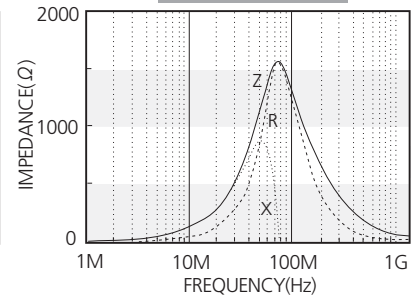
CIM21J751



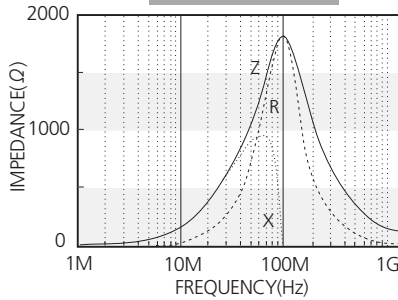
CIM21J102



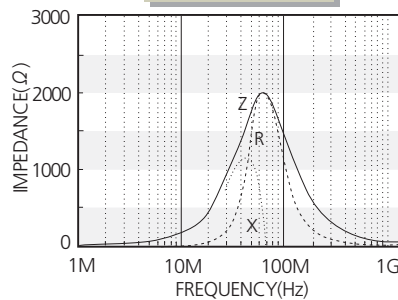
CIM21J152



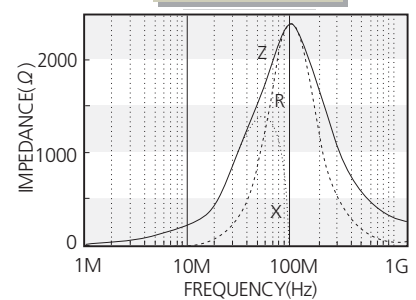
CIM21J182



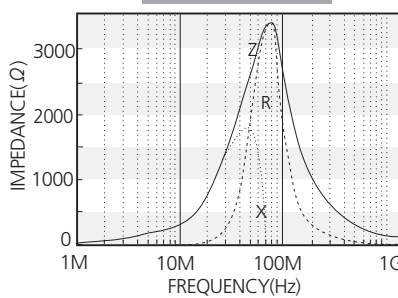
CIM21J202



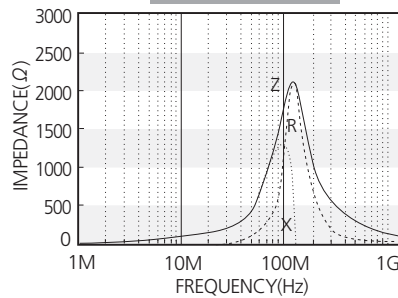
CIM21J222



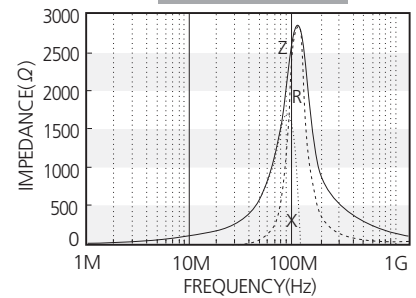
CIM21J252



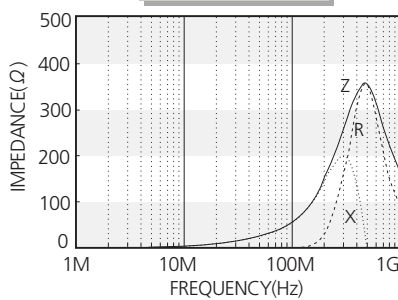
CIM21K152



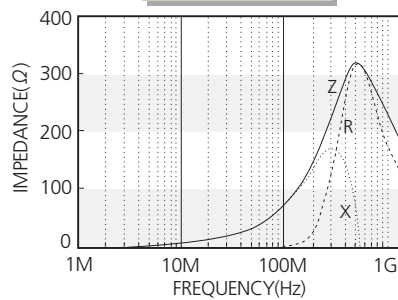
CIM21K252



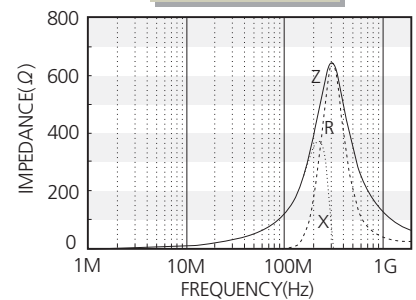
CIM21N560



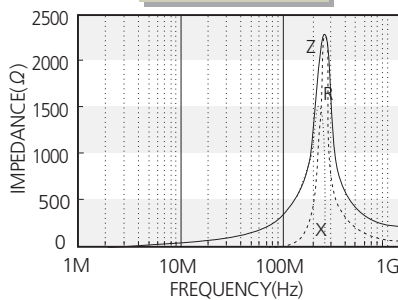
CIM21N700



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 N □	1.1 \pm 0.2	26	0.05	2000
CIB 31P 310 N □	1.1 \pm 0.2	31	0.05	2000
CIB 31P 500 N □	1.1 \pm 0.2	50	0.05	2000
CIB 31P 600 N □	1.1 \pm 0.2	60	0.05	1500
CIB 31P 700 N □	1.1 \pm 0.2	70	0.10	1500
CIM 31U 101 N □	1.1 \pm 0.2	100	0.15	500
CIM 31U 601 N □	1.1 \pm 0.2	600	0.30	400
CIM 31J 151 N □	1.1 \pm 0.2	150	0.20	600
CIM 31J 221 N □	1.1 \pm 0.2	220	0.20	600
CIM 31J 301 N □	1.1 \pm 0.2	300	0.25	600
CIM 31J 601 N □	1.1 \pm 0.2	600	0.30	600
CIM 31J 801 N □	1.1 \pm 0.2	800	0.40	500
CIM 31J 102 N □	1.1 \pm 0.2	1000	0.45	500
CIM 31J 152 N □	1.1 \pm 0.2	1500(at 70MHz)	0.55	300

* Test equipment: Agilent E4991A + 16193A or Equivalent)

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

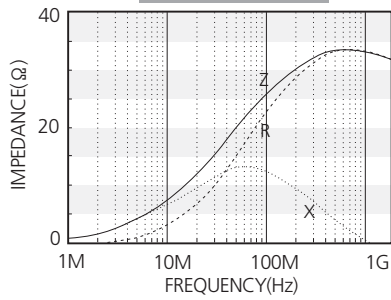
Part No.	Thickness (mm)	Impedance (Ω) $\pm 25\%$ @100 MHz	DC Resistance (Ω) Max.	Rated Current (mA) Max.
CIB 32P 310 N □	1.3 \pm 0.2	31	0.02	3000
CIB 32P 600 N □	1.3 \pm 0.2	60	0.02	1500
CIB 41P 800 N □	1.6 \pm 0.2	80	0.03	1000
CIB 41P 151 N □	1.6 \pm 0.2	150	0.05	1000

Customized products are available.

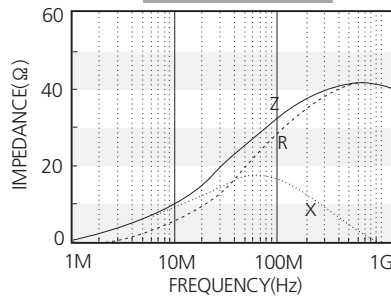
* Test equipment: Agilent E4991A + 16193A or Equivalent)

Electrical Characteristics

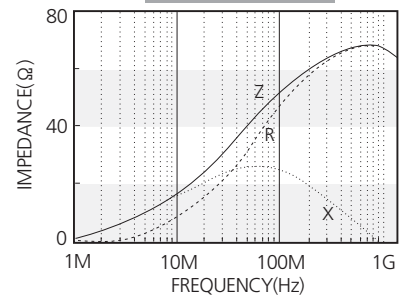
CIB31P260



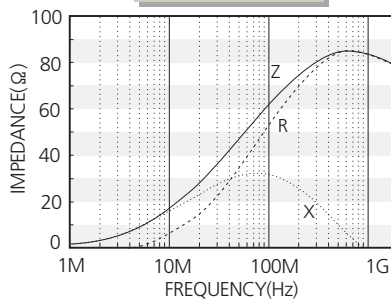
CIB31P310



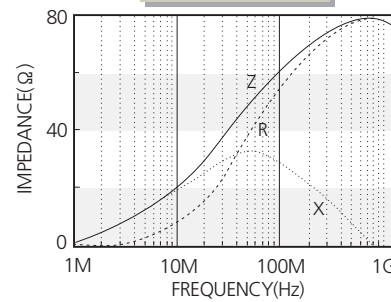
CIB31P500



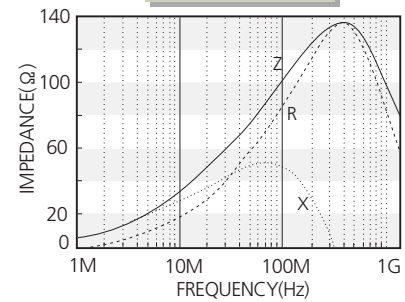
CIB31P600



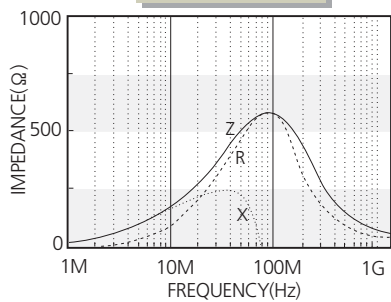
CIB31P700



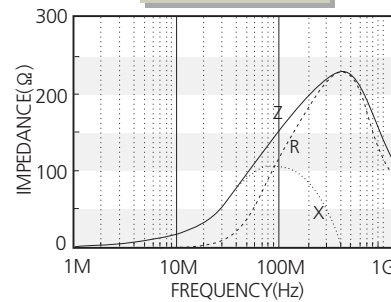
CIM31U101



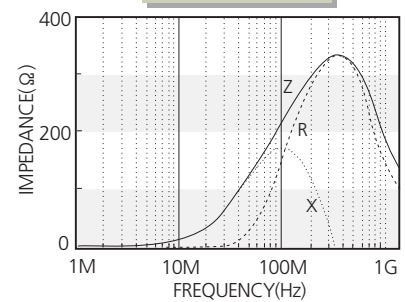
CIM31U601



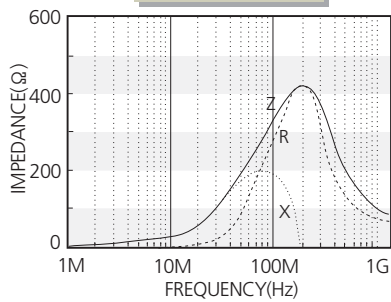
CIM31J151



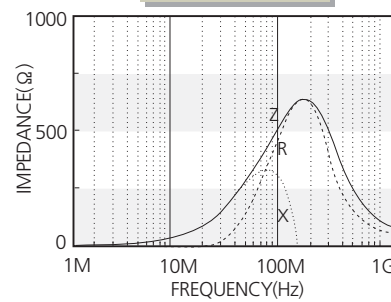
CIM31J221



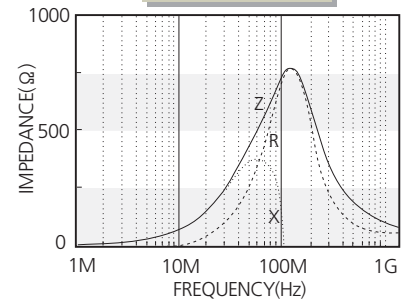
CIM31J301



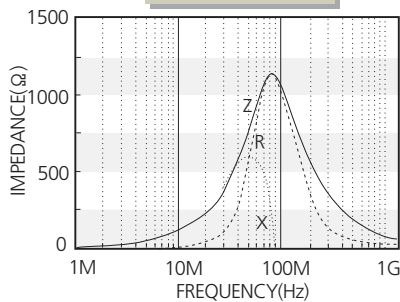
CIM31J601



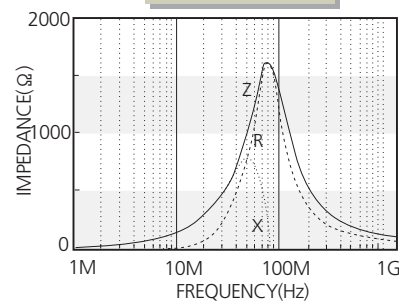
CIM31J801



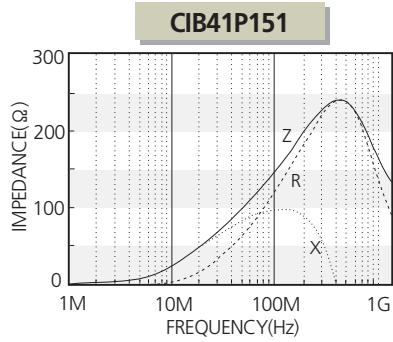
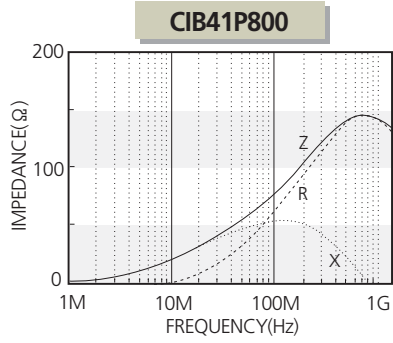
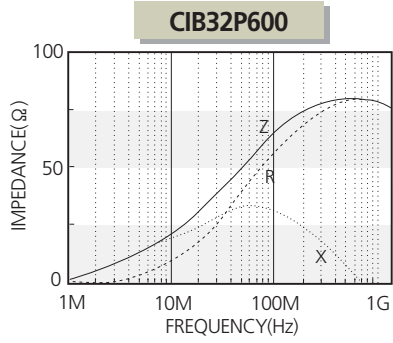
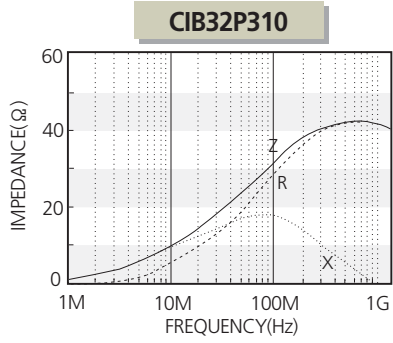
CIM31J102



CIM31J152



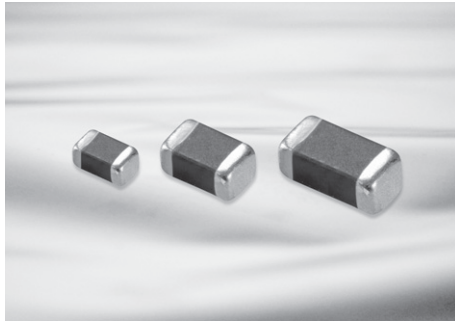
Electrical Characteristics



CIB/CIM
Series

Chip Bead ; CIC/CIS Series

For High Current



Feature

- The smallest beads used for high current.

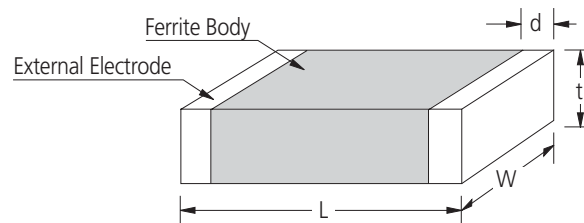
Application

- Suppression of noise in power line

The CIC/CIS Series can be used in high current owing to their low DC resistance. They can match power lines to a maximum of 6A DC.

Operating Temp	-55~+125°C
Storage Temp (After mounting)	-55~+125°C

Dimensions



Unit : mm

SIZE CODE	L	W	t	d
02	0.4±0.02	0.2±0.02	0.2±0.02	0.10+0.04,-0.03
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±0.15/0.6±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	0.5±0.3

Part Numbering

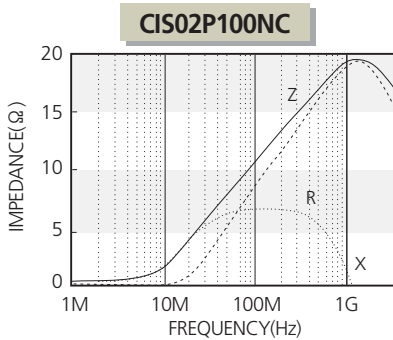
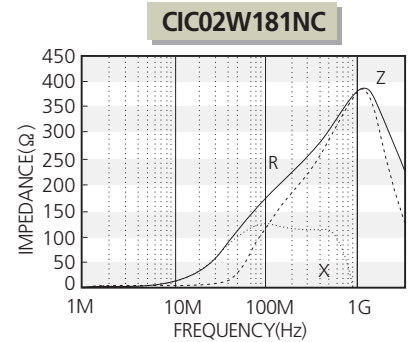
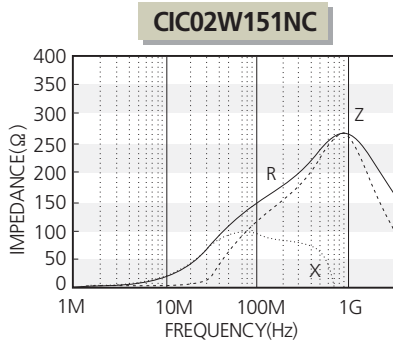
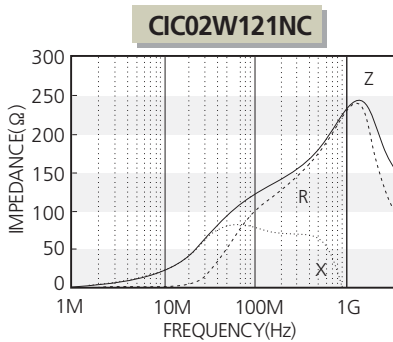
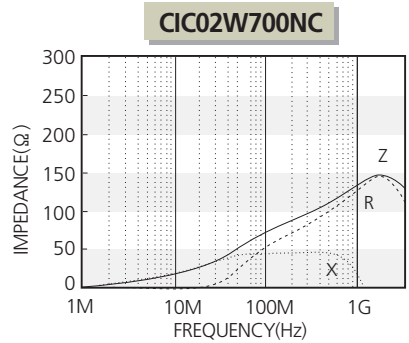
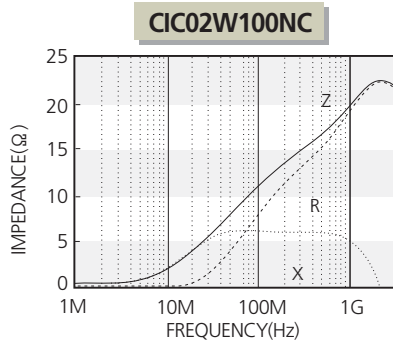
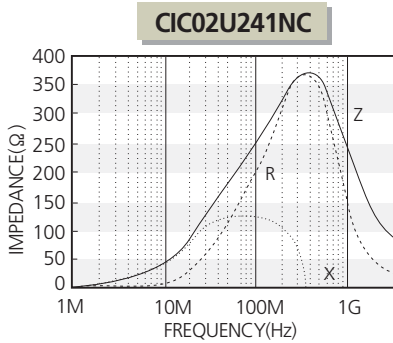
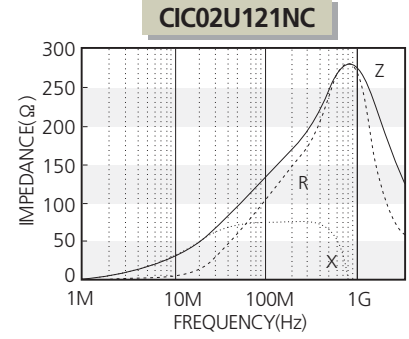
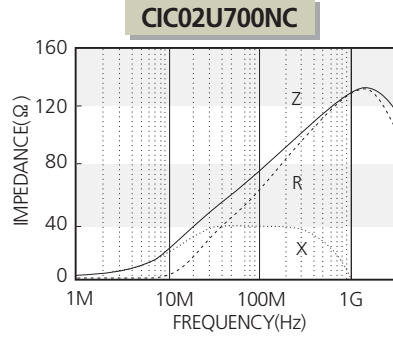
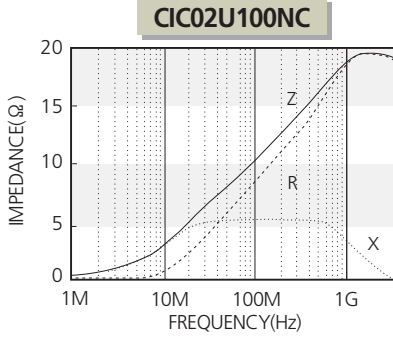
CI **C** **05** **P** **300** **N** **C**
 (1) (2) (3) (4) (5) (6) (7)

- (1) Chip Beads
- (2) C: For high current ~3A, S: Ultra high current ~6A
- (3) Dimension
- (4) Material Code(J, P)
- (5) Nominal impedance(310: 31Ω, 121: 120Ω)
- (6) Thickness option(N: Standard, A: Thinner than standard, B: Thicker than standard)
- (7) Packaging(C: paper tape, E: embossed tape)

CIC/CIS 0402(01005) Type

Part No.	Thickness (mm)	Impedance (Ω) $\pm 25\%$ @100 MHz	DC Resistance (Ω) Max.	Rated Current (mA) Max.
CIC 02U 100 N □	0.20 \pm 0.02	10(typ.)	0.07	750
CIC 02U 700 N □	0.20 \pm 0.02	70	0.37	300
CIC 02U 121 N □	0.20 \pm 0.02	120	0.50	250
CIC 02U 241 N □	0.20 \pm 0.02	240	0.90	200
CIC 02W 100 N □	0.20 \pm 0.02	10(typ.)	0.10	500
CIC 02W 700 N □	0.20 \pm 0.02	70	0.45	260
CIC 02W 121 N □	0.20 \pm 0.02	120	0.60	220
CIC 02W 151 N □	0.20 \pm 0.02	150	0.65	200
CIC 02W 181 N □	0.20 \pm 0.02	180	0.75	200
CIS 02P 100 N □	0.20 \pm 0.02	10(typ.)	0.045	1000

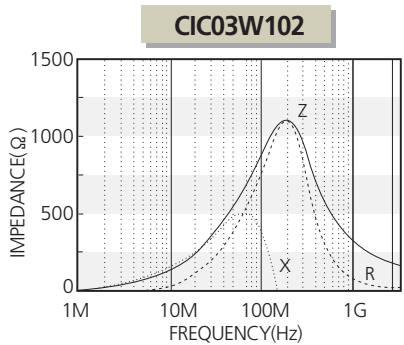
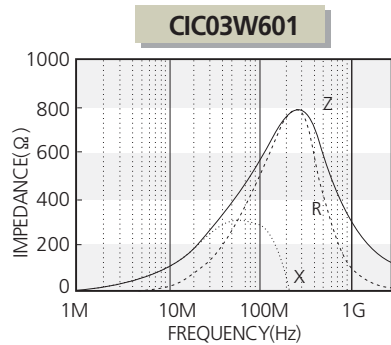
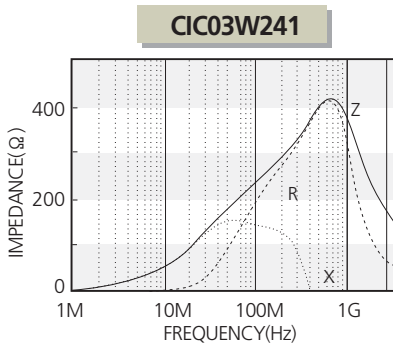
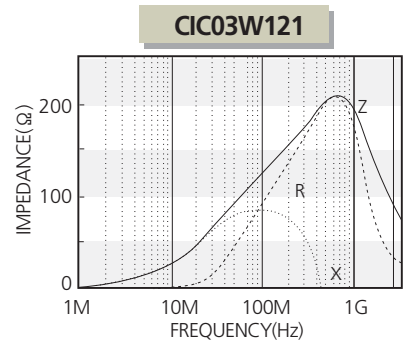
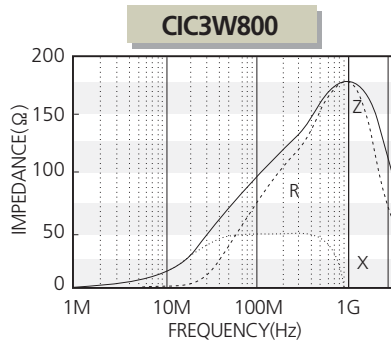
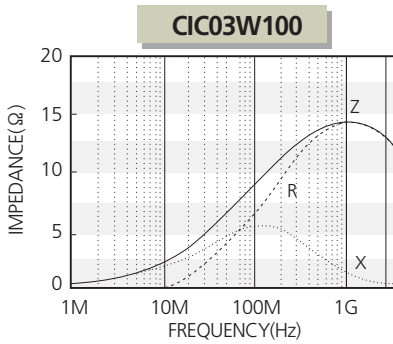
CIC/CIS 0402(01005) Type



CIC 0603(0201) Type

Part No.	Thickness (mm)	Impedance (Ω) $\pm 25\%$ @100 MHz	DC Resistance (Ω) Max.	Rated Current (mA) Max.
CIC 03W 100 N □	0.30 \pm 0.03	10(typ.)	0.05	1000
CIC 03W 800 N □	0.30 \pm 0.03	80	0.18	500
CIC 03W 121 N □	0.30 \pm 0.03	120	0.23	450
CIC 03W 241 N □	0.30 \pm 0.03	240	0.38	350
CIC 03W 601 N □	0.30 \pm 0.03	600	0.85	250
CIC 03W 102 N □	0.30 \pm 0.03	1000	1.25	200

* Test equipment : Agilent E4991A + 16197A or Equivalent

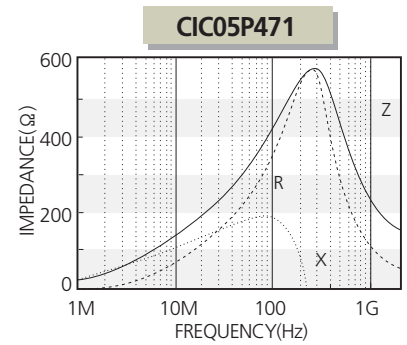
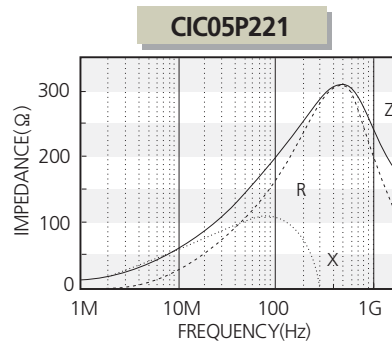
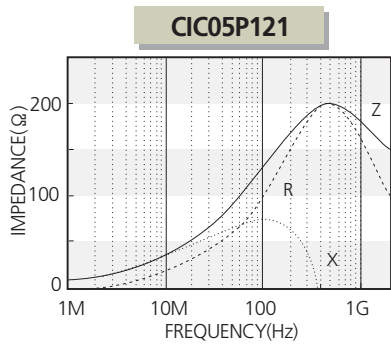
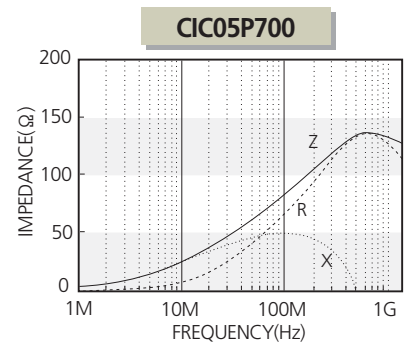
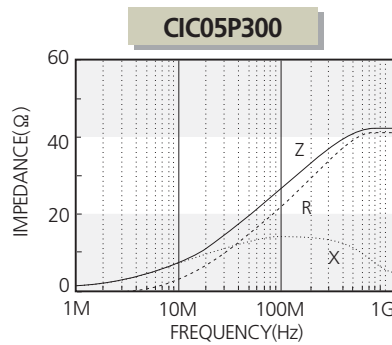
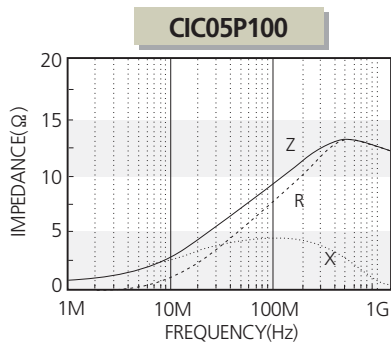


CIC/CIS
Series

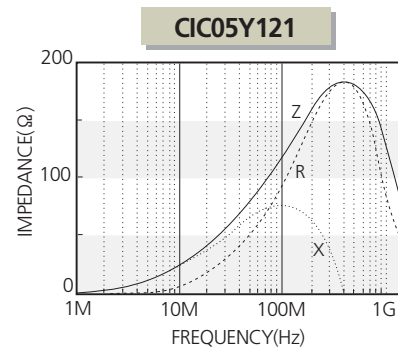
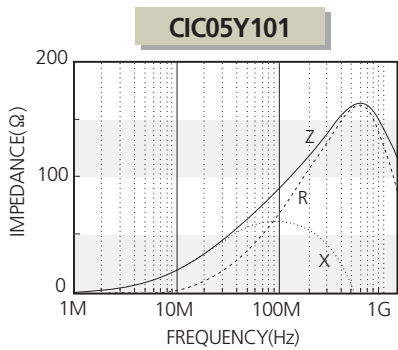
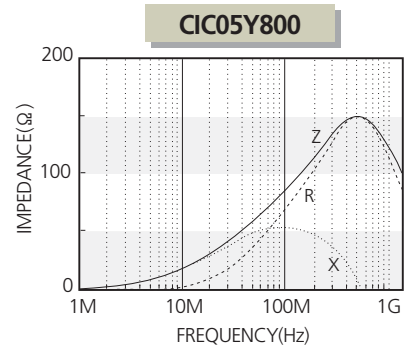
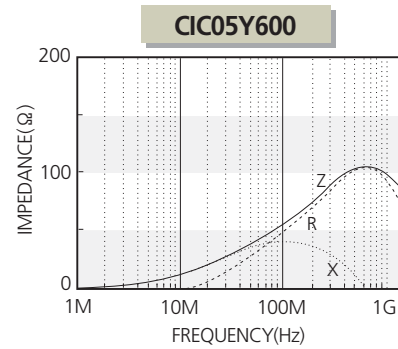
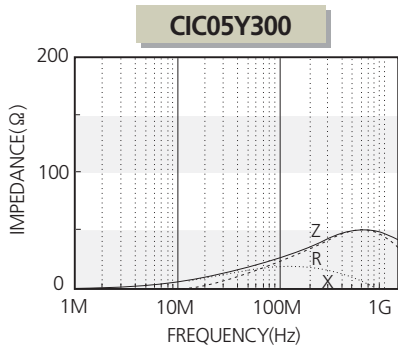
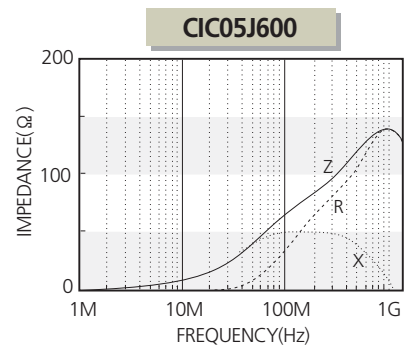
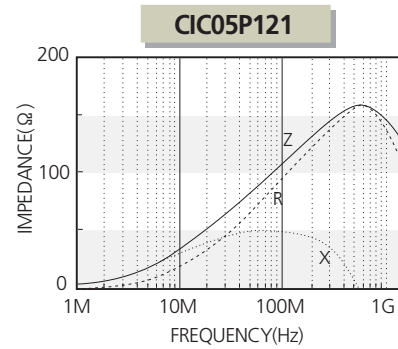
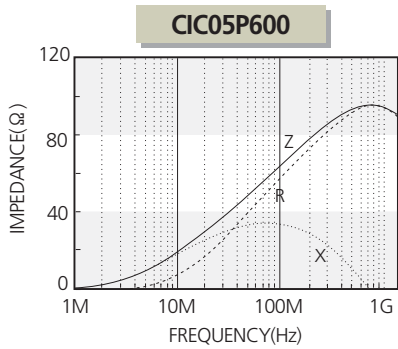
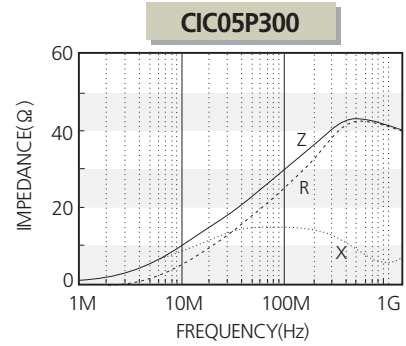
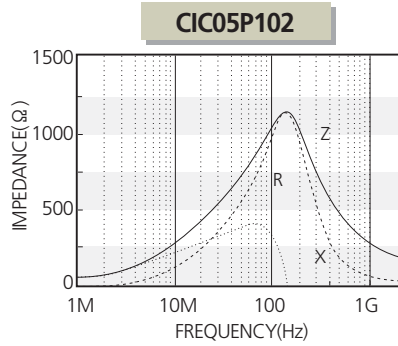
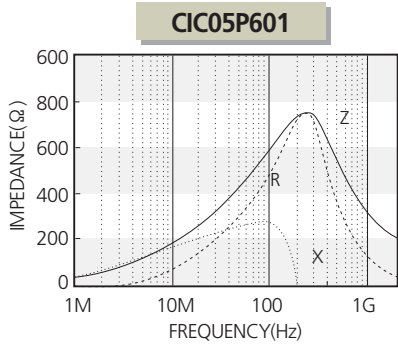
CIC 1005(0402) Type

Part No.	Thickness (mm)	Impedance (Ω) $\pm 25\%$ @100 MHz	DC Resistance (Ω) Max.	Rated Current (mA) Max.
CIC05P100 N □	0.50 \pm 0.05	10(typ.)	0.015	1750
CIC05P300 N □	0.50 \pm 0.05	30	0.06	1100
CIC05P700 N □	0.50 \pm 0.05	70	0.10	700
CIC05P121 N □	0.50 \pm 0.05	120	0.13	700
CIC05P221 N □	0.50 \pm 0.05	220	0.18	600
CIC05P471 N □	0.50 \pm 0.05	470	0.30	500
CIC05P601 N □	0.50 \pm 0.05	600	0.34	420
CIC05P102 N □	0.50 \pm 0.05	1000	0.49	350
CIC05J 600 N □	0.50 \pm 0.05	60	0.09	1500
CIC05Y100 N □	0.50 \pm 0.05	10(typ.)	0.035	2200
CIC05Y300 N □	0.50 \pm 0.05	30	0.035	2200
CIC05Y600 N □	0.50 \pm 0.05	60	0.06	1700
CIC05Y800 N □	0.50 \pm 0.05	80	0.07	1500
CIC05Y101 N □	0.50 \pm 0.05	100	0.07	1500
CIC05Y121 N □	0.50 \pm 0.05	120	0.09	1300

* Test equipment: Agilent E4991A + 16192A or Equivalent



CIC 1005(0402) Type



CIC/CIS
Series

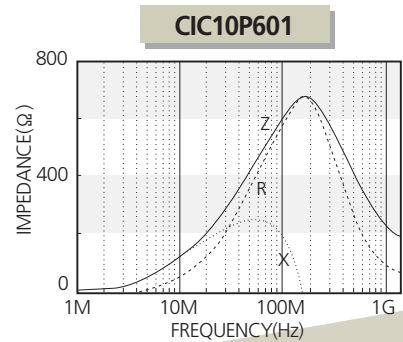
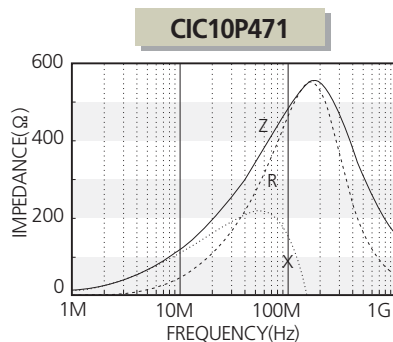
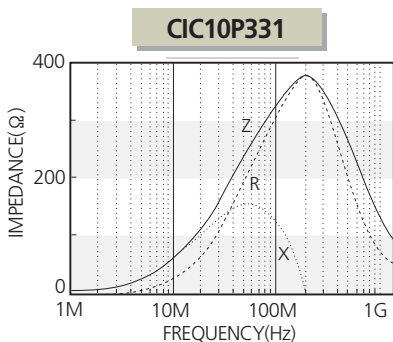
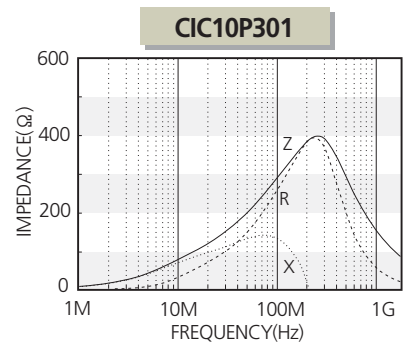
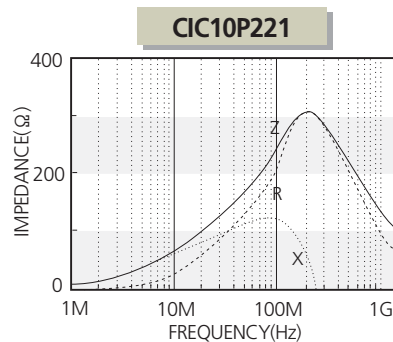
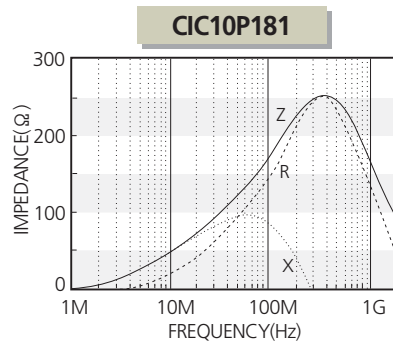
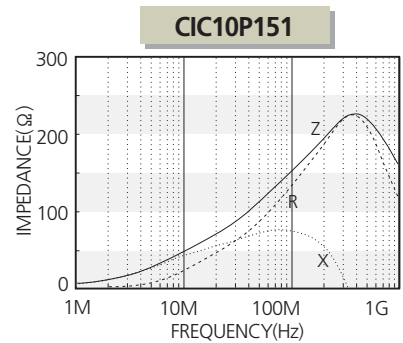
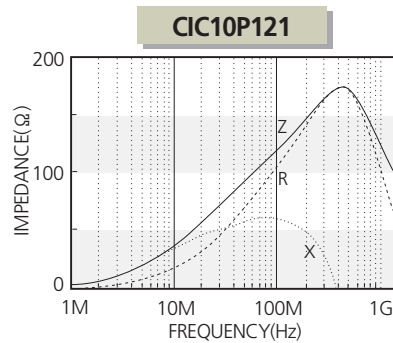
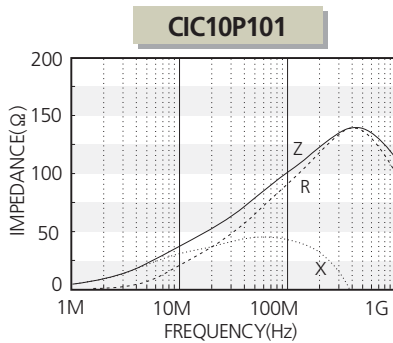
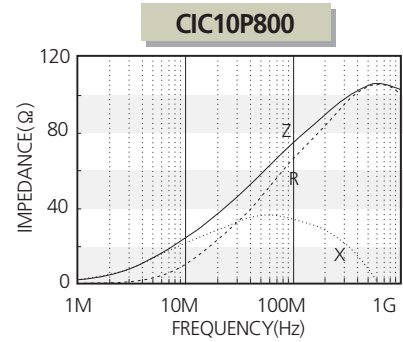
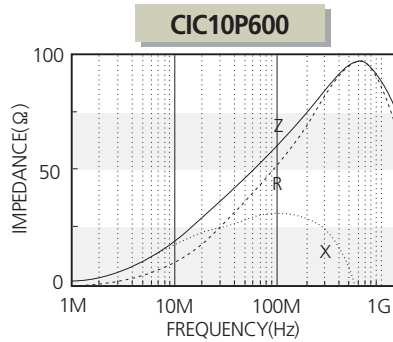
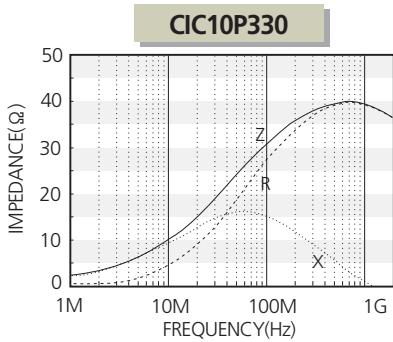
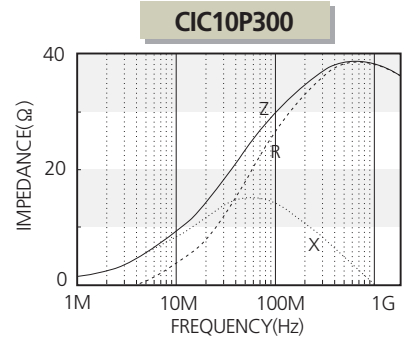
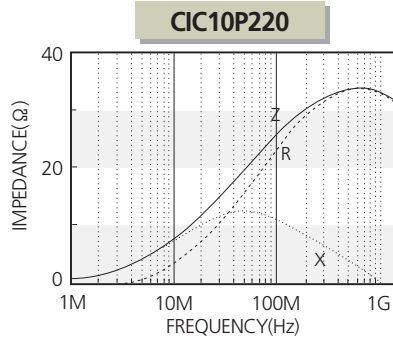
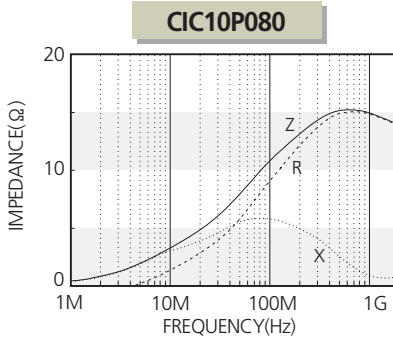


CIC 1608(0603) Type

Part No.	Thickness (mm)	Impedance (Ω) $\pm 25\%$ @100 MHz	DC Resistance (Ω) Max.	Rated Current (mA) Max.
CIC 10P 080 N □	0.8 \pm 0.15	8(typ.)	0.03	3000
CIC 10P 220 N □	0.8 \pm 0.15	22	0.025	3000
CIC 10P 300 N □	0.8 \pm 0.15	30	0.025	3000
CIC 10P 330 N □	0.8 \pm 0.15	33	0.025	3000
CIC 10P 600 N □	0.8 \pm 0.15	60	0.05	2500
CIC 10P 800 N □	0.8 \pm 0.15	80	0.05	2000
CIC 10P 101 N □	0.8 \pm 0.15	100	0.05	2000
CIC 10P 121 N □	0.8 \pm 0.15	120	0.05	2000
CIC 10P 151 N □	0.8 \pm 0.15	150	0.09	1500
CIC 10P 181 N □	0.8 \pm 0.15	180	0.09	1500
CIC 10P 221 N □	0.8 \pm 0.15	220	0.10	1400
CIC 10P 301 N □	0.8 \pm 0.15	300	0.12	1200
CIC 10P 331 N □	0.8 \pm 0.15	330	0.14	1200
CIC 10P 471 N □	0.8 \pm 0.15	470	0.15	1200
CIC 10P 601 N □	0.8 \pm 0.15	600	0.15	1200
CIC 10J 080 N □	0.8 \pm 0.15	8(typ.)	0.02	3000
CIC 10J 300 N □	0.8 \pm 0.15	30	0.03	3000
CIC 10J 470 N □	0.8 \pm 0.15	47	0.05	2000
CIC 10J 600 N □	0.8 \pm 0.15	60	0.05	2000
CIC 10J 800 N □	0.8 \pm 0.15	80	0.10	2000
CIC 10J 121 N □	0.8 \pm 0.15	120	0.10	2000
CIC 10J 151 N □	0.8 \pm 0.15	150	0.15	1500
CIC 10J 221 N □	0.8 \pm 0.15	220	0.15	1500
CIC 10J 301 N □	0.8 \pm 0.15	300	0.15	800
CIC 10J 471 N □	0.8 \pm 0.15	470	0.15	800
CIC 10J 601 N □	0.8 \pm 0.15	600	0.15	750

※ Test equipment: Agilent E4991A + 16193A or Equivalent

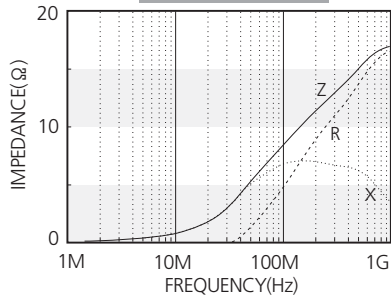
Electrical Characteristics



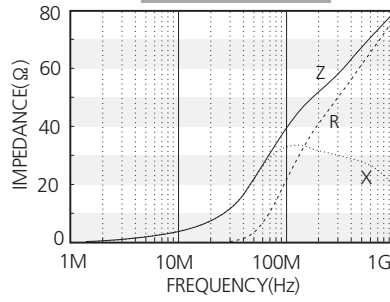
CIC/CIS
Series

Electrical Characteristics

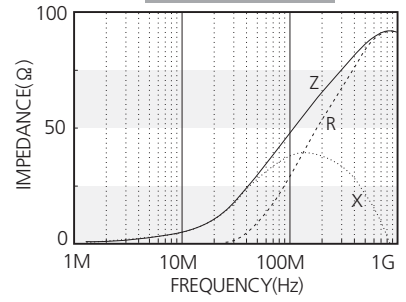
CIC10J080



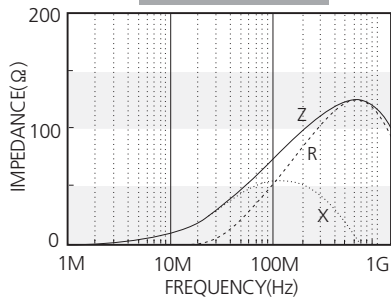
CIC10J300



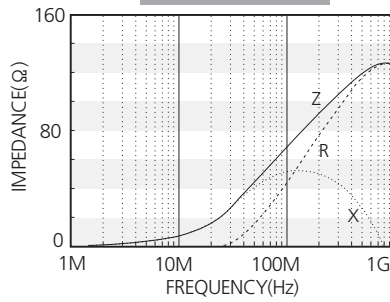
CIC10J470



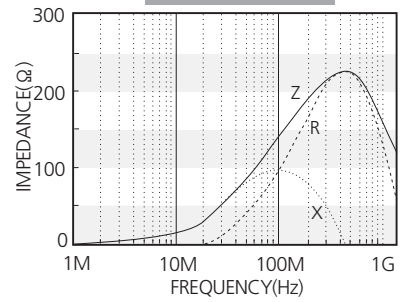
CIC10J600



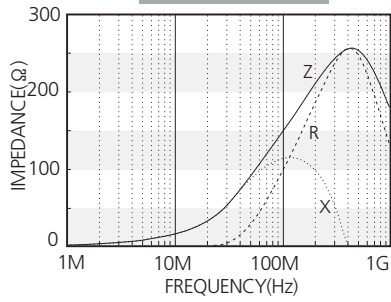
CIC10J800



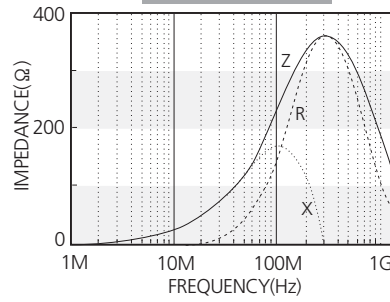
CIC10J121



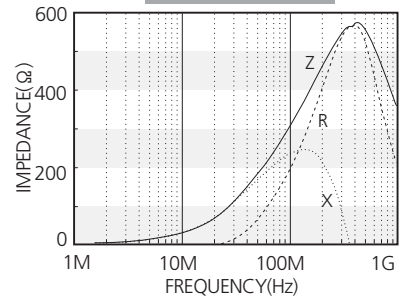
CIC10J151



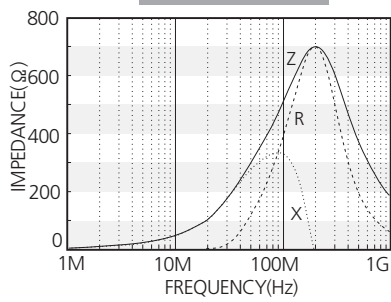
CIC10J221



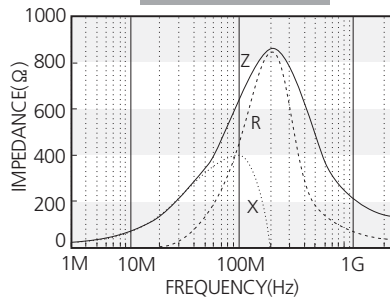
CIC10J301



CIC10J471



CIC10J601



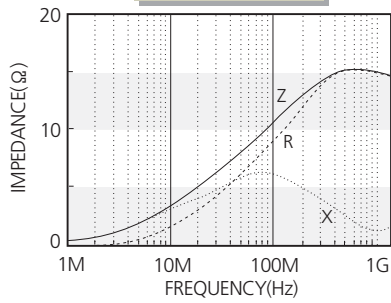
CIC 2012(0805) Type

Part No.	Thickness (mm)	Impedance (Ω) $\pm 25\%$ @100 MHz	DC Resistance (Ω) Max.	Rated Current (mA) Max.
CIC 21P 110 N □	0.90 \pm 0.2	11(typ.)	0.05	6000
CIC 21P 300 N □	0.90 \pm 0.2	30	0.015	3000
CIC 21P 600 N □	0.90 \pm 0.2	60	0.025	3000
CIC 21P 800 N □	0.90 \pm 0.2	80	0.025	2500
CIC 21P 101 N □	0.90 \pm 0.2	100	0.02	2000
CIC 21P 121 N □	0.90 \pm 0.2	120	0.05	2000
CIC 21P 221 N □	0.90 \pm 0.2	220	0.035	3200
CIC 21P 331 N □	0.85 \pm 0.2	330	0.05	2000
CIC 21P 601 N □	0.90 \pm 0.2	600	0.15	1000
CIC 21J 600 N □	0.90 \pm 0.2	60	0.03	3800
CIC 21J 121 N □	0.90 \pm 0.2	120	0.05	2500
CIC 21J 221 N □	0.90 \pm 0.2	220	0.05	1500
CIC 21J 301 N □	0.90 \pm 0.2	300	0.10	1500
CIC 21J 471 N □	0.90 \pm 0.2	470	0.08	1500
CIC 21J 601 N □	0.90 \pm 0.2	600	0.10	1000

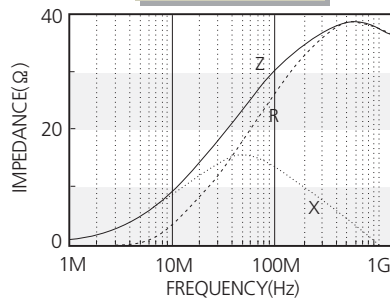
* Test equipment: Agilent E4991A + 16193A or Equivalent

Electrical Characteristics

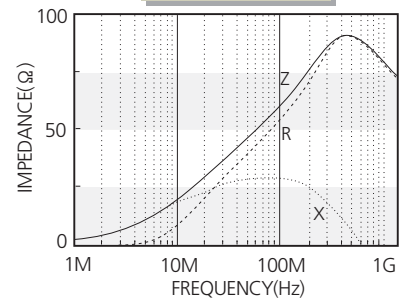
CIC21P110



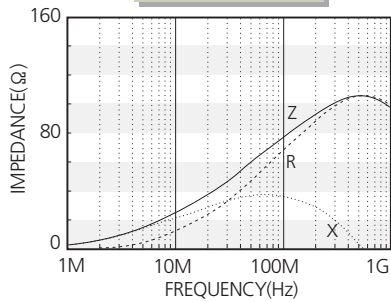
CIC21P300



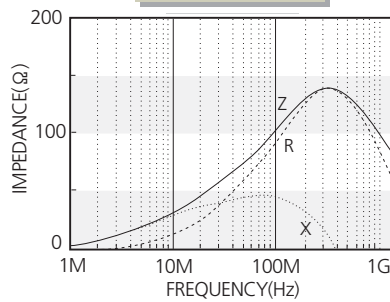
CIC21P600



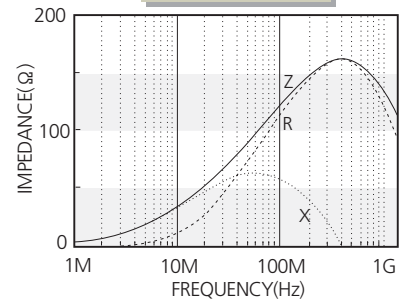
CIC21P800



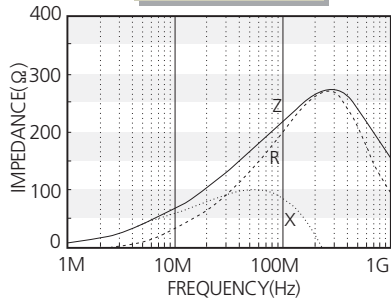
CIC21P101



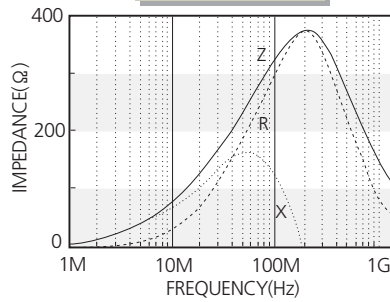
CIC21P121



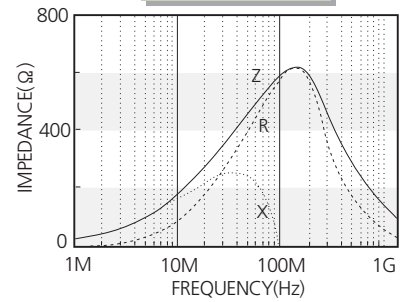
CIC21P221



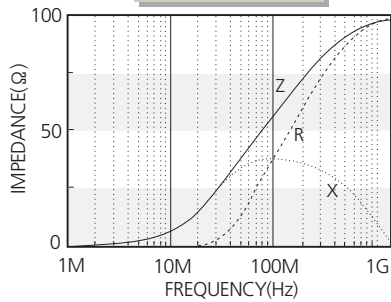
CIC21P331



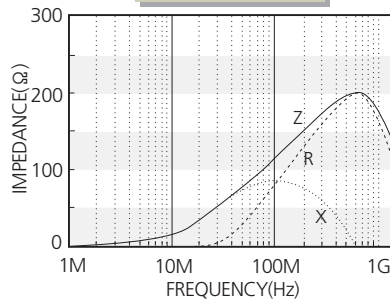
CIC21P601



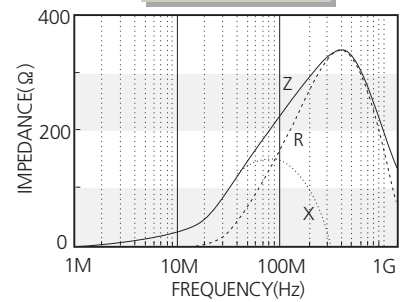
CIC21J600



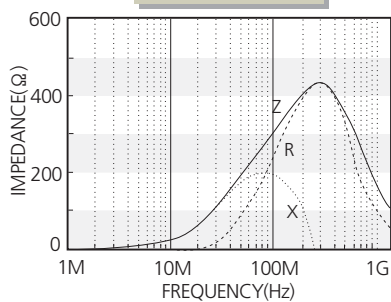
CIC21J121



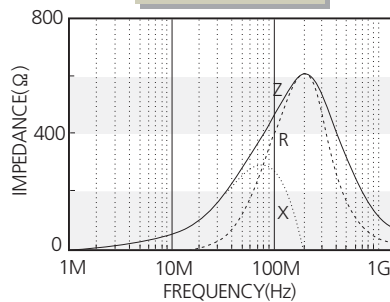
CIC21J221



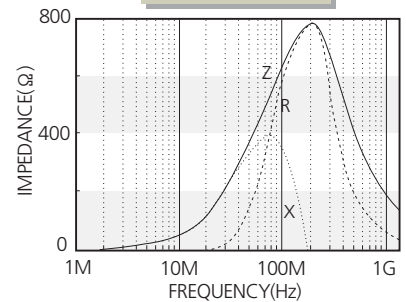
CIC21J301



CIC21J471



CIC21J601



CIC 3216(1206) Type

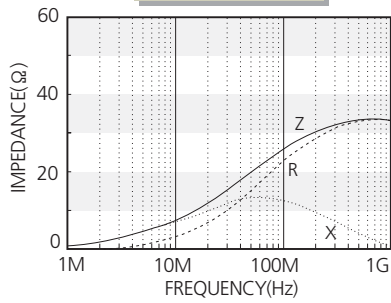
Part No.	Thickness (mm)	Impedance (Ω) $\pm 25\%$ @100 MHz	DC Resistance (Ω) Max.	Rated Current (mA) Max.
CIC 31P 260 N □	1.1 \pm 0.2	26	0.01	6000
CIC 31P 300 N □	1.1 \pm 0.2	30	0.01	6000
CIC 31P 310 N □	1.1 \pm 0.2	31	0.01	6000
CIC 31P 330 N □	1.1 \pm 0.2	33	0.01	6000
CIC 31P 350 N □	1.1 \pm 0.2	35	0.025	3000
CIC 31P 500 N □	1.1 \pm 0.2	50	0.025	3000
CIC 31P 520 N □	1.1 \pm 0.2	52	0.025	3000
CIC 31P 600 N □	1.1 \pm 0.2	60	0.025	3000
CIC 31P 680 N □	1.1 \pm 0.2	68	0.025	3000
CIC 31P 700 N □	1.1 \pm 0.2	70	0.025	3000
CIC 31P 800 N □	1.1 \pm 0.2	80	0.025	3000
CIC 31P 900 N □	1.1 \pm 0.2	90	0.025	2000
CIC 31P 121 N □	1.1 \pm 0.2	120	0.025	2000
CIC 31P 151 N □	1.1 \pm 0.2	150	0.05	2000
CIC 31P 221 N □	1.1 \pm 0.2	220	0.05	2000
CIC 31P 301 N □	1.1 \pm 0.2	300	0.05	2000
CIC 31P 391 N □	1.1 \pm 0.2	390	0.05	2000
CIC 31P 471 N □	1.1 \pm 0.2	470	0.07	1500
CIC 31P 601 N □	1.1 \pm 0.2	600	0.07	1500
CIC 31J 300 N □	1.1 \pm 0.2	30	0.02	4000
CIC 31J 500 N □	1.1 \pm 0.2	50	0.02	4000
CIC 31J 680 N □	1.1 \pm 0.2	68	0.02	4000
CIC 31J 800 N □	1.1 \pm 0.2	80	0.02	4000
CIC 31J 900 N □	1.1 \pm 0.2	90	0.02	4000
CIC 31J 121 N □	1.1 \pm 0.2	120	0.03	4000
CIC 31J 151 N □	1.1 \pm 0.2	150	0.03	3000
CIC 31J 241 N □	1.1 \pm 0.2	240	0.05	3000
CIC 31J 301 N □	1.1 \pm 0.2	300	0.05	3000
CIC 31J 471 N □	1.1 \pm 0.2	470	0.05	3000
CIC 31J 501 N □	1.1 \pm 0.2	500	0.05	3000
CIC 31J 601 N □	1.1 \pm 0.2	600	0.05	2500

* Test equipment : Agilent E4991A + 16193A or Equivalent

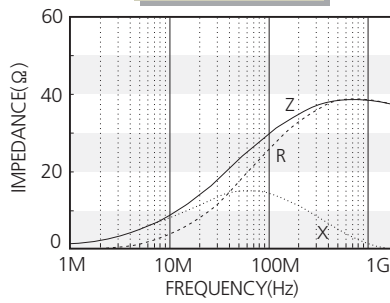
CIC/CIS
Series

Electrical Characteristics

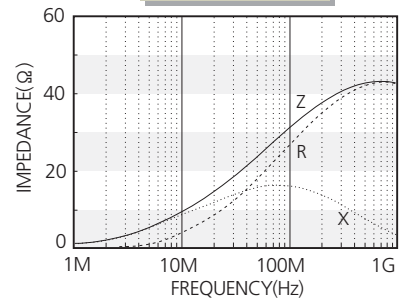
CIC31P260



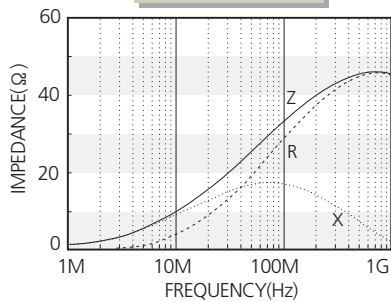
CIC31P300



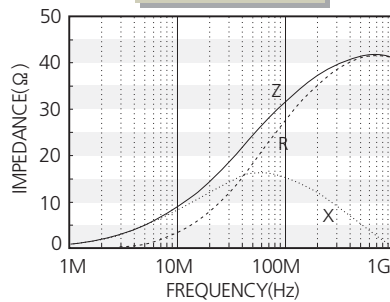
CIC31P310



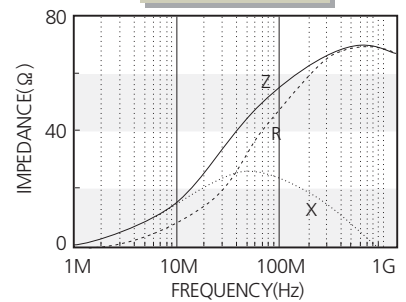
CIC31P330



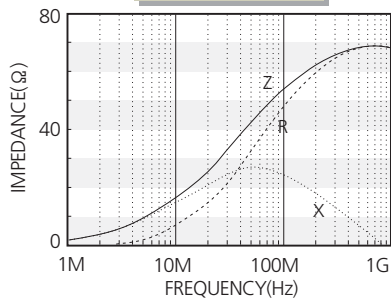
CIC31P350



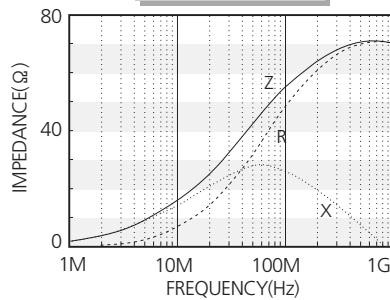
CIC31P500



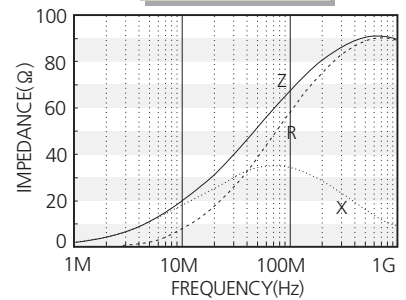
CIC31P520



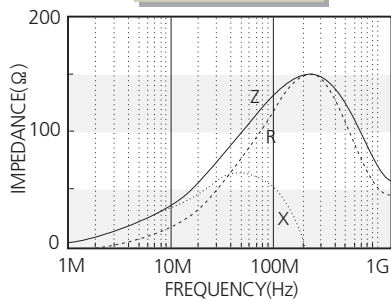
CIC31P600



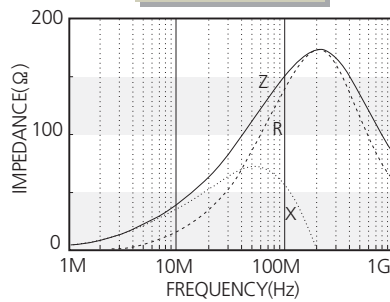
CIC31P680



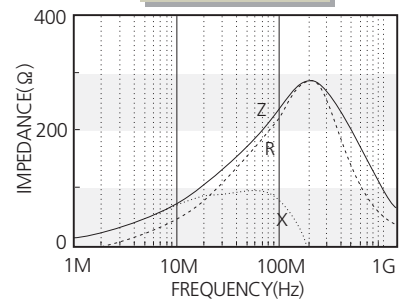
CIC31P121



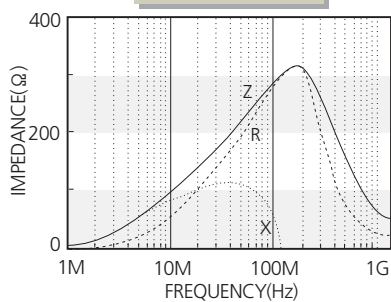
CIC31P151



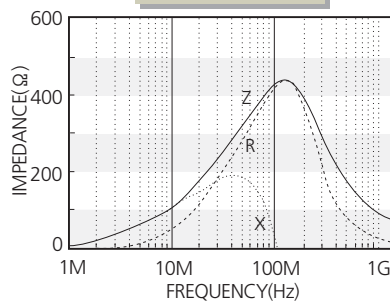
CIC31P221



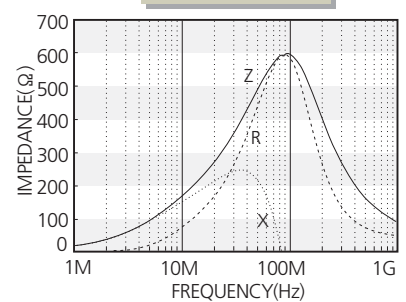
CIC31P301



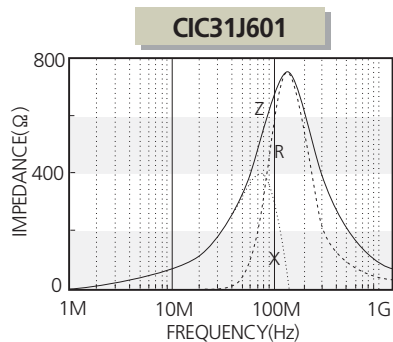
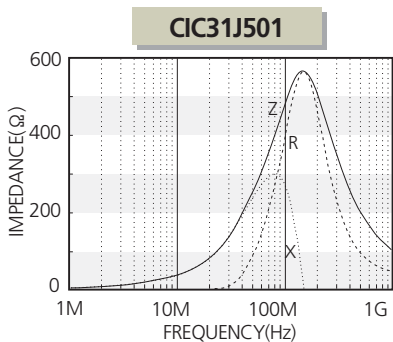
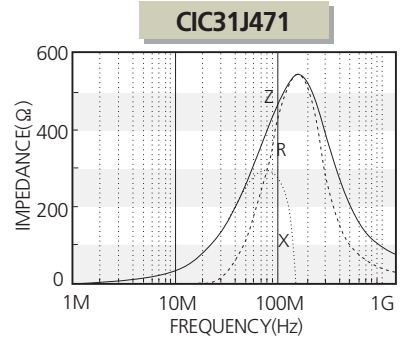
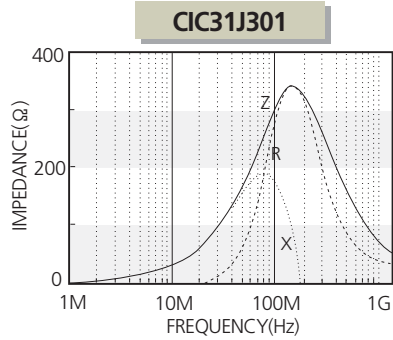
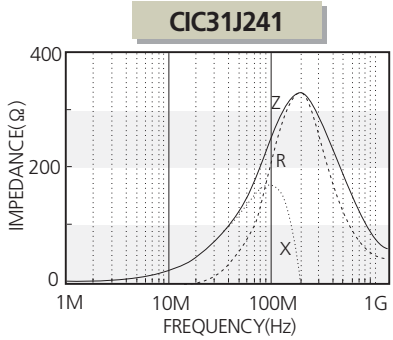
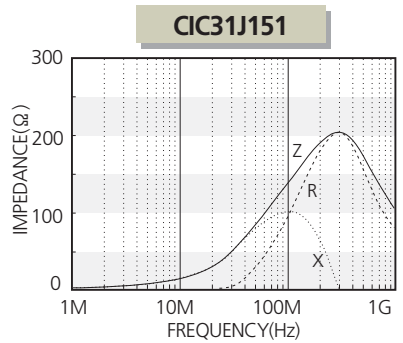
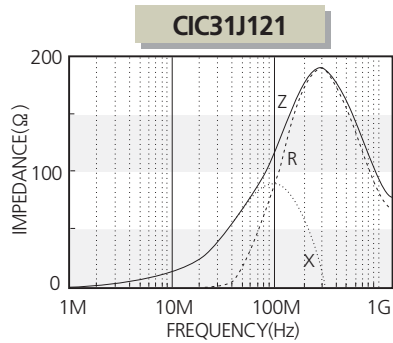
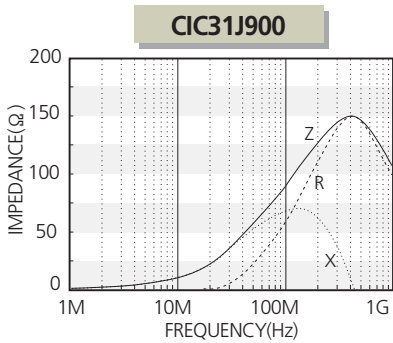
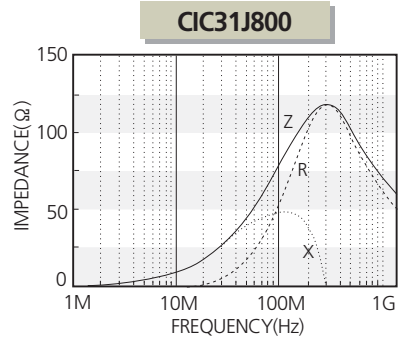
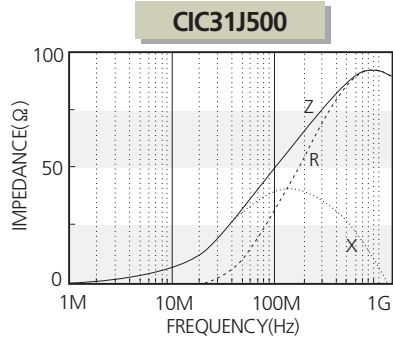
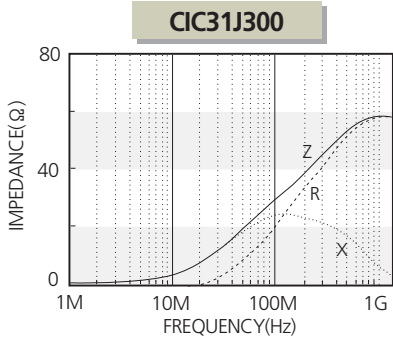
CIC31P471



CIC31P601



Electrical Characteristics



CIC/CIS
Series

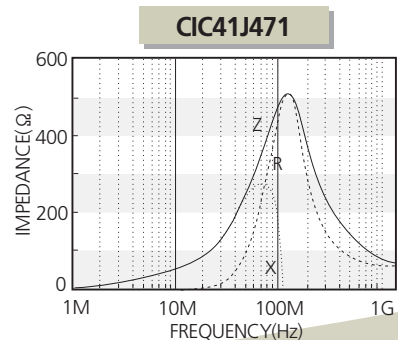
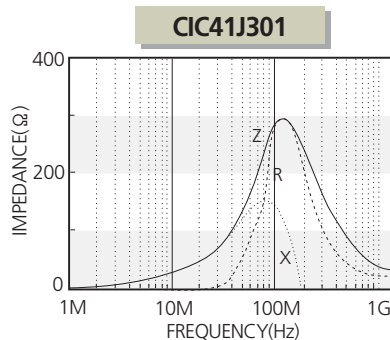
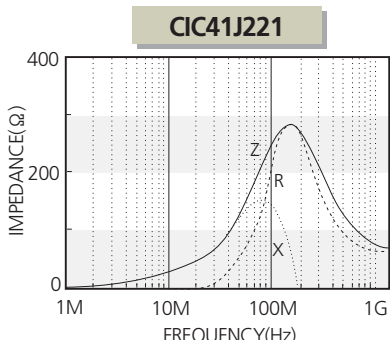
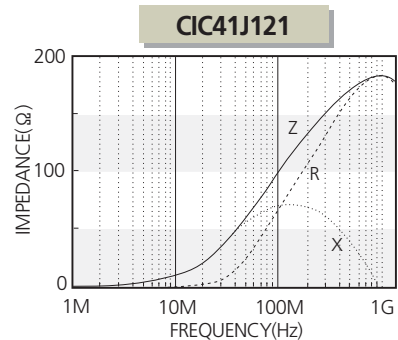
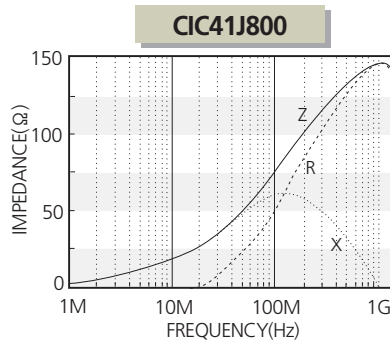
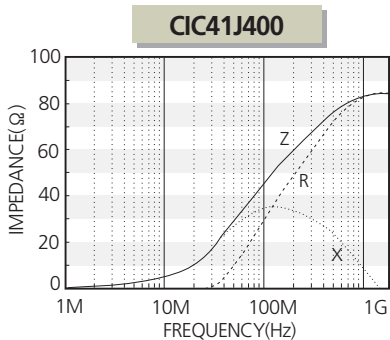
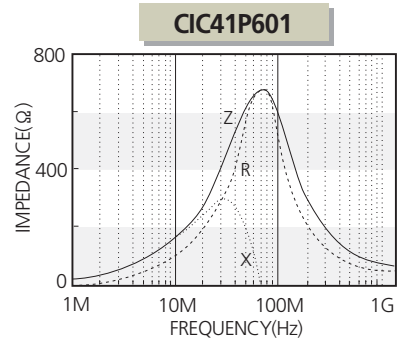
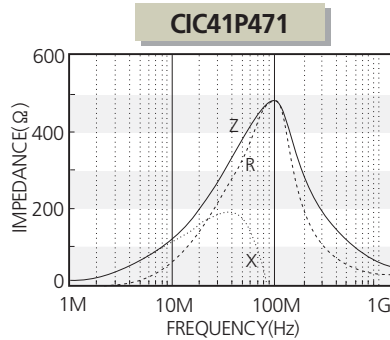
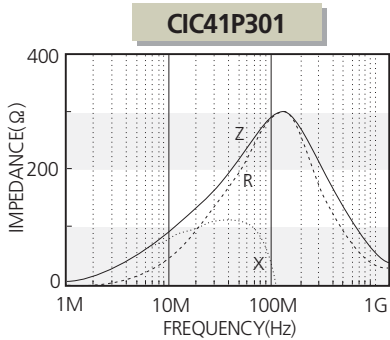
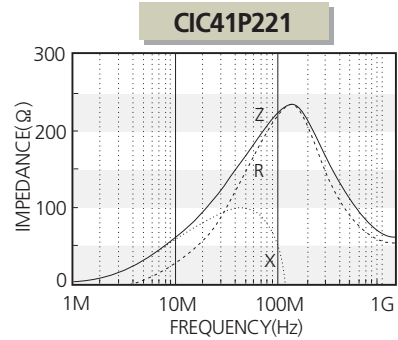
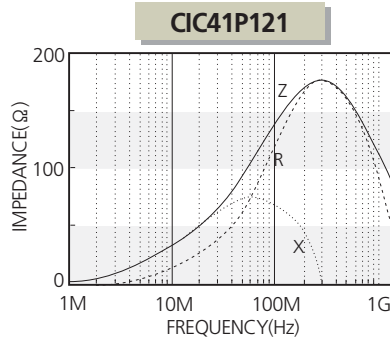
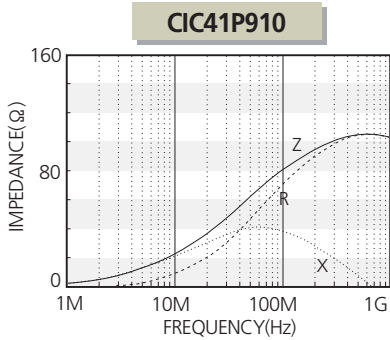
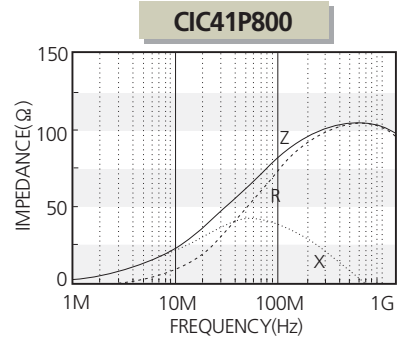
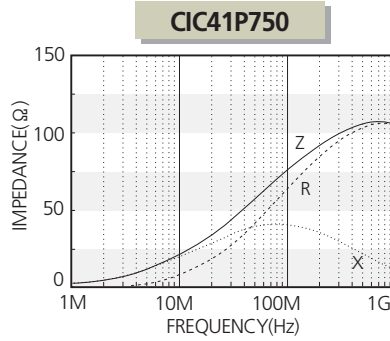
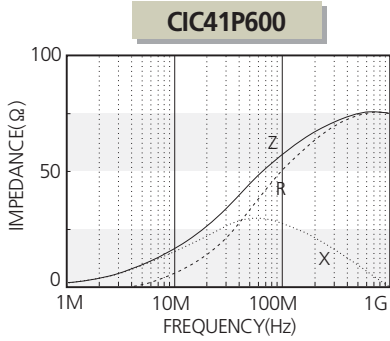


CIC 4516(1806) Type

Part No.	Thickness (mm)	Impedance (Ω) $\pm 25\%$ @100 MHz	DC Resistance (Ω) Max.	Rated Current (mA) Max.
CIC 41P 260 N□	1.6 \pm 0.2	26(typ.)	0.01	6000
CIC 41P 600 N□	1.6 \pm 0.2	60	0.01	6000
CIC 41P 750 N□	1.6 \pm 0.2	75	0.01	6000
CIC 41P 800 N□	1.6 \pm 0.2	80	0.01	6000
CIC 41P 910 N□	1.6 \pm 0.2	91	0.025	3000
CIC 41P 111 N□	1.6 \pm 0.2	110	0.025	3000
CIC 41P 121 N□	1.6 \pm 0.2	120	0.025	3000
CIC 41P 151 N□	1.6 \pm 0.2	150	0.025	3000
CIC 41P 181 N□	1.6 \pm 0.2	180	0.025	3000
CIC 41P 221 N□	1.6 \pm 0.2	220	0.05	2000
CIC 41P 301 N□	1.6 \pm 0.2	300	0.05	2000
CIC 41P 471 N□	1.6 \pm 0.2	470	0.05	2000
CIC 41P 601 N□	1.6 \pm 0.2	600	0.08	1500
CIC 41J 260 N□	1.6 \pm 0.2	26(typ.)	0.01	6000
CIC 41J 400 N□	1.6 \pm 0.2	40	0.01	6000
CIC 41J 600 N□	1.6 \pm 0.2	60	0.01	6000
CIC 41J 800 N□	1.6 \pm 0.2	80	0.01	6000
CIC 41J 910 N□	1.6 \pm 0.2	91	0.02	6000
CIC 41J 121 N□	1.6 \pm 0.2	120	0.03	3000
CIC 41J 151 N□	1.6 \pm 0.2	150	0.03	3000
CIC 41J 221 N□	1.6 \pm 0.2	220	0.04	2500
CIC 41J 301 N□	1.6 \pm 0.2	300	0.04	2500
CIC 41J 471 N□	1.6 \pm 0.2	470	0.04	2500
CIC 41J 601 N□	1.6 \pm 0.2	600	0.04	2500

※ Test equipment: Agilent E4991A + 16193A or Equivalent

Electrical Characteristics

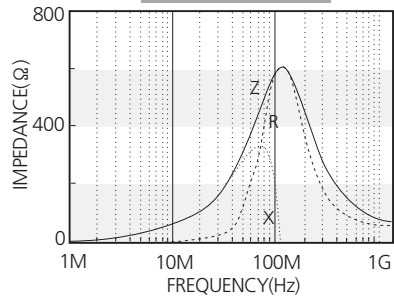


CIC/CIS
Series



Electrical Characteristics

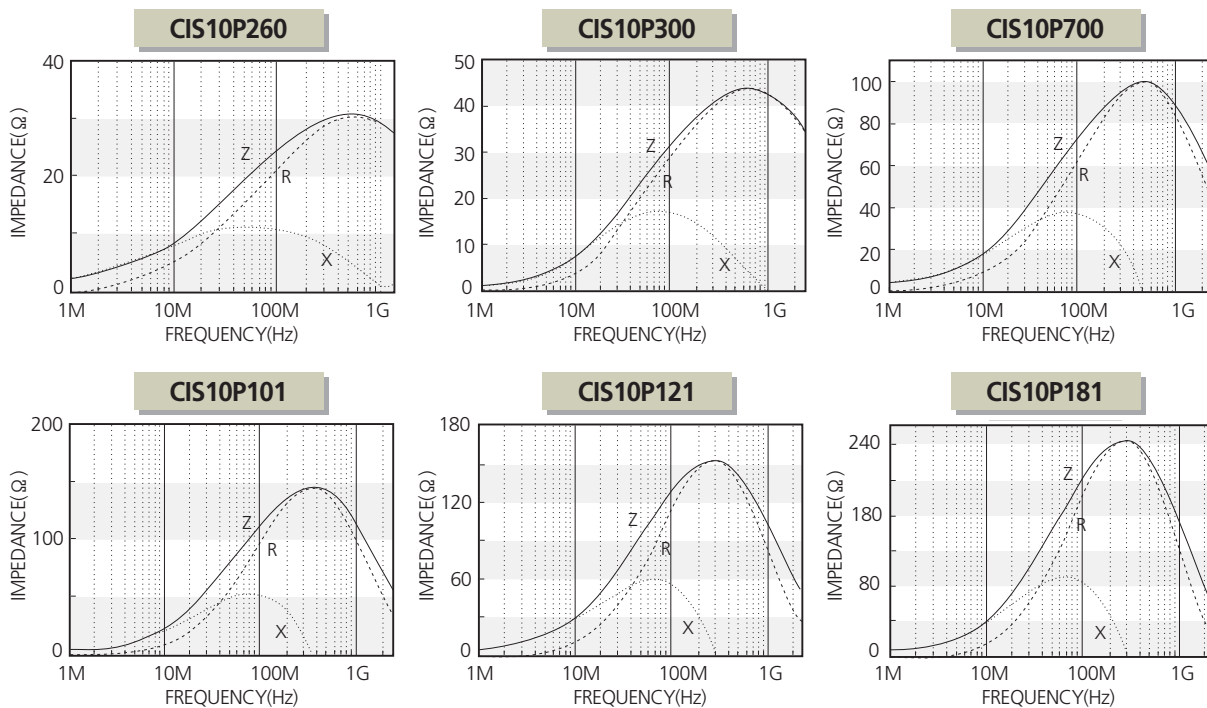
CIC41J601



CIS Series

Part No.	Thickness (mm)	Impedance (Ω) $\pm 25\%$ @100 MHz	DC Resistance (Ω) Max.	Rated Current (mA) Max.
CIS 10P 260 A □	0.6 ± 0.15	26	0.007	6000
CIS 10P 300 A □	0.6 ± 0.15	30	0.01	6000
CIS 10P 700 A □	0.6 ± 0.15	70	0.02	4000
CIS 10P 101 A □	0.6 ± 0.15	100	0.03	3000
CIS 10P 121 A □	0.6 ± 0.15	120	0.03	3000
CIS 10P 181 A □	0.6 ± 0.15	180	0.04	2500
CIS 10P 221 N □	0.8 ± 0.15	220	0.05	2500
CIS 10P 301 N □	0.8 ± 0.15	300	0.07	2000
CIS 10P 331 N □	0.8 ± 0.15	330	0.07	1700
CIS 10P 391 N □	0.8 ± 0.15	390	0.10	1200
CIS 10P 471 N □	0.8 ± 0.15	470	0.13	1500
CIS 10P 601 N □	0.8 ± 0.15	600	0.15	1300
CIS 10J 300 N □	0.8 ± 0.15	30	0.01	6000
CIS 21P 300 N □	0.9 ± 0.2	30	0.01	6000
CIS 21P 101 N □	0.9 ± 0.2	100	0.02	4000
CIS 21J 121 N □	0.9 ± 0.2	120	0.02	5000
CIS 32P 520 N □	1.3 ± 0.2	52	0.01	6000
CIS 41P 600 N □	1.6 ± 0.2/1.2 ± 0.2	60	0.01	6000
CIS 41J 600 N □	1.6 ± 0.2/1.2 ± 0.2	60	0.01	6000

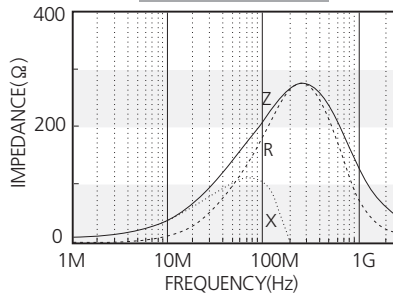
* Test equipment : Agilent E4991A + 16193A or Equivalent



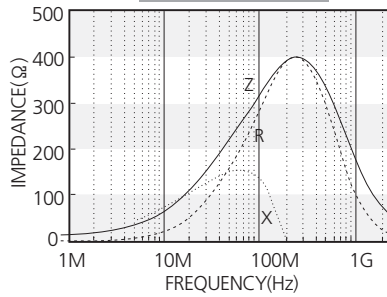
CIS/CIS Series

Electrical Characteristics

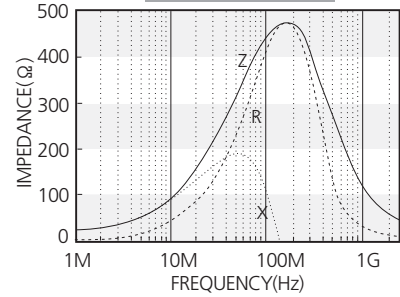
CIS10P221



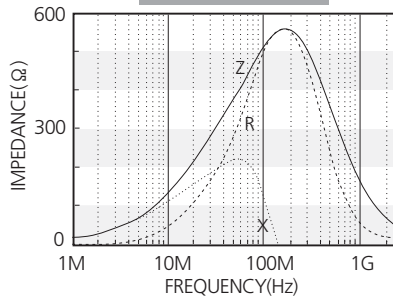
CIS10P331



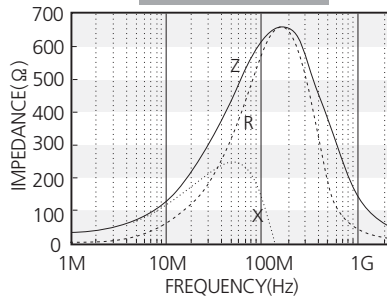
CIS10P391



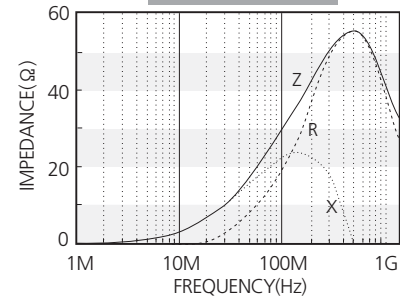
CIS10P471



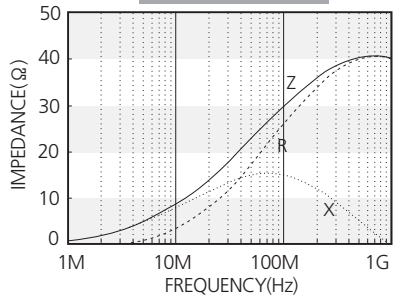
CIS10P601



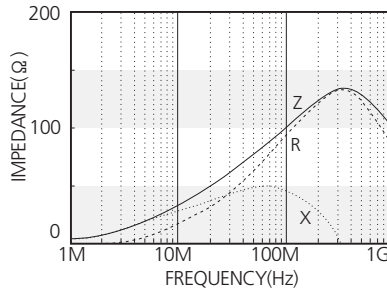
CIS10J300



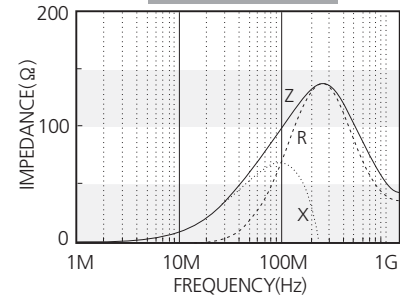
CIS21P300



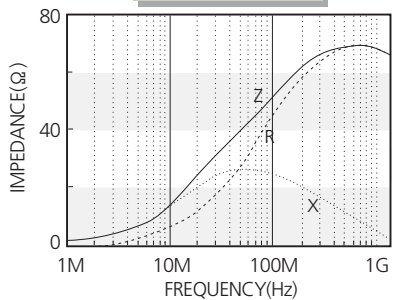
CIS21P101



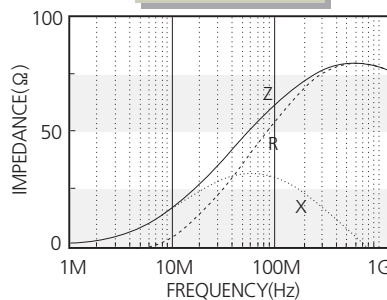
CIS21J121



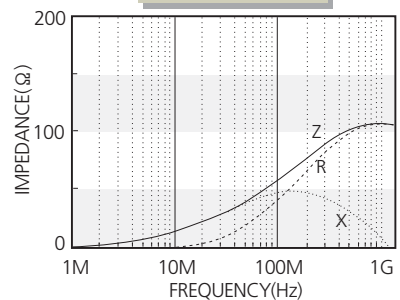
CIS32P520



CIS41P600

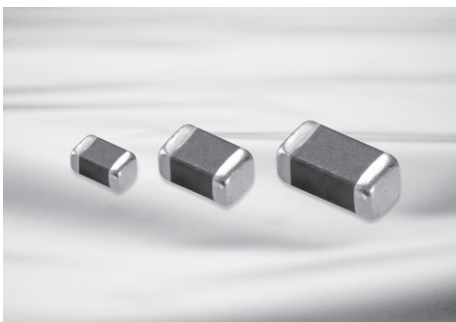


CIS41J600



CIV Series

GHz noise suppression



Feature

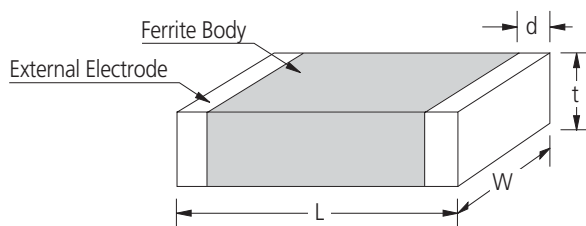
- CIV Series have high impedance in a GHz band and suppress GHz noise
- Small beads suitable for surface mounting
- Excellent solderability and high heat resistance for either flow or reflow soldering

Application

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

Operating Temp	-55~+125°C
Storage Temp (After mounting)	-55~+125°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

Part Numbering

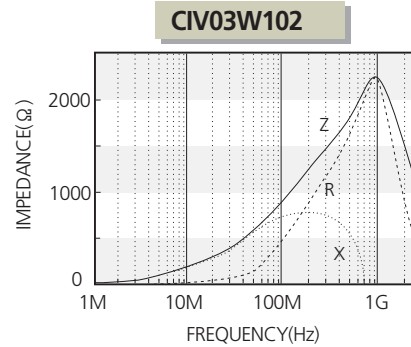
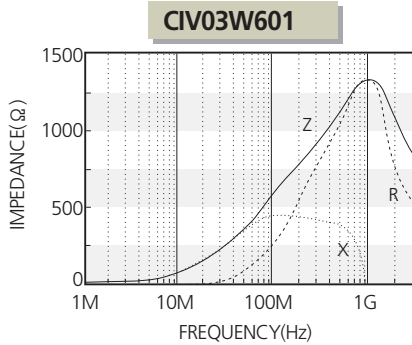
CI **V** **05** **U** **102** **N** **C**
 (1) (2) (3) (4) (5) (6) (7)

- (1) Chip Beads
- (2) V: For GHz Noise Suppression
- (3) Dimension
- (4) Material Code (U,J)
- (5) Nominal impedance (601:600Ω 102:1000Ω ,)
- (6) Thickness option (N: Standard, A: Thinner than standard, B: Thicker than standard)
- (7) Packaging (C: paper tape, E: embossed tape)

CIV 0603(0201) Type

Part No.	Thickness (mm)	Impedance (Ω) $\pm 25\%$ @100 MHz	Impedance (Ω) $\pm 40\%$ @1 GHz	DC Resistance (Ω) Max.	Rated Current (mA) Max.
CIV03W601N □	0.03 \pm 0.03	600	1500	1.7	150
CIV03W102N □	0.03 \pm 0.03	1000	2300	2.9	120

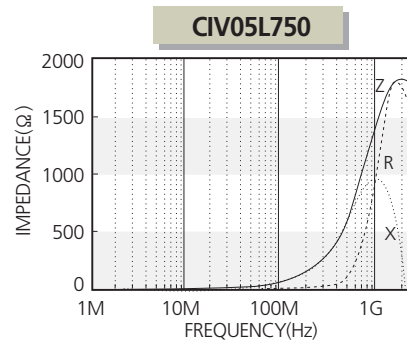
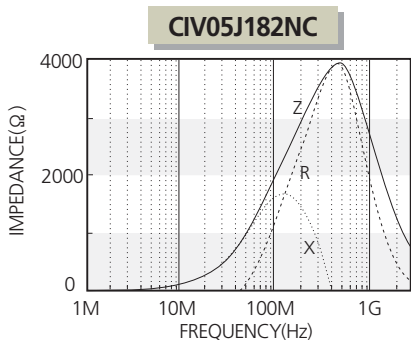
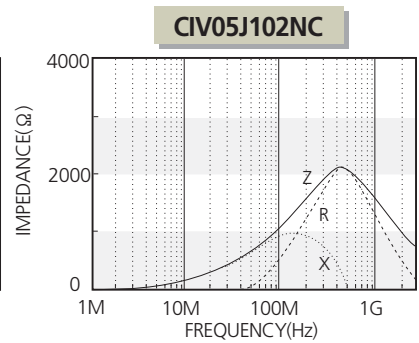
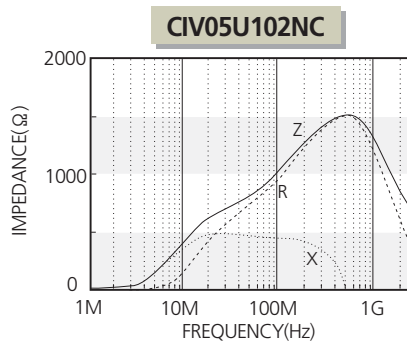
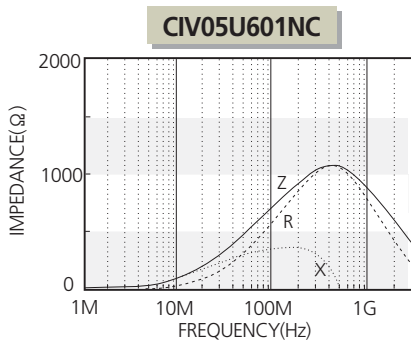
* Test equipment: Agilent E4991A + 16197A or Equivalent



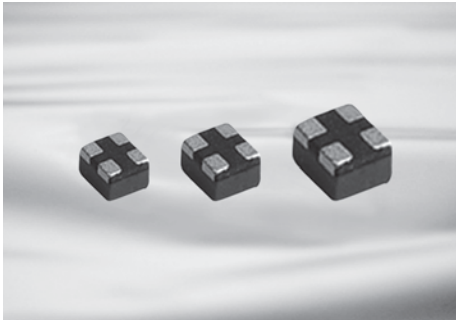
CIV 1005(0402) Type

Part No.	Thickness (mm)	Impedance (Ω) $\pm 25\%$ @100 MHz	Impedance (Ω) $\pm 40\%$ @1 GHz	DC Resistance (Ω) Max.	Rated Current (mA) Max.
CIV05U601N □	0.5 \pm 0.05	600	1000	0.7	300
CIV05U102N □	0.5 \pm 0.05	1000	1400	1.1	250
CIV05J102N □	0.5 \pm 0.05	1000	2000	1.25	250
CIV05J182N □	0.5 \pm 0.05	1800	2700	2.20	200
CIV05L750N □	0.5 \pm 0.05	75	1000	1.3	200

* Test equipment: Agilent E4991A + 16192A or Equivalent)



Common Mode Filter



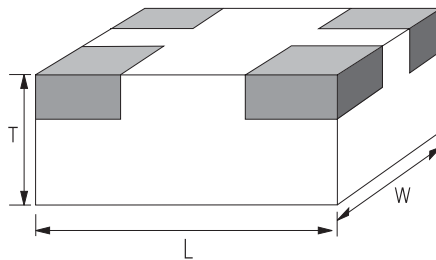
Features

- A compact film type common mode filter
- Low DC resistance
- Free of all RoHS-regulated substances

Application

- High speed interface such as LVDS, IEEE1394, USB 2.0, MIPI, S-ata2, etc.

Dimensions



Unit : mm

SIZE CODE	L	W	T
040302	0.45±0.02	0.30±0.02	0.23±0.02
060503	0.65±0.05	0.50±0.05	0.30±0.05
080604	0.85±0.05	0.65±0.05	0.45±0.05

Common Mode Filter

Part Numbering

CMF **T** **060503** **GN** **900** **M** **N** **C**
 (1) (2) (3) (4) (5) (6) (7) (8)

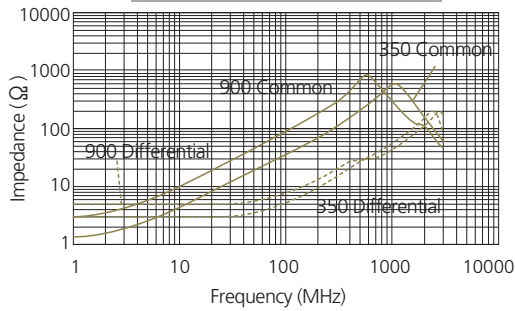
- (1) Common mode filter
- (2) T: Film type
- (3) Dimensions
- (4) Type code (GN: High speed, HN: Ultra High speed, GE: High Speed + ESD)
- (5) Nominal impedance (350: 35Ω, 650: 65Ω, 900: 90Ω)
- (6) Tolerance (N: ± 30%, M: ± 20%, S: Special)
- (7) Internal code
- (8) Packaging (C: Paper tape, E: Embossed tape)



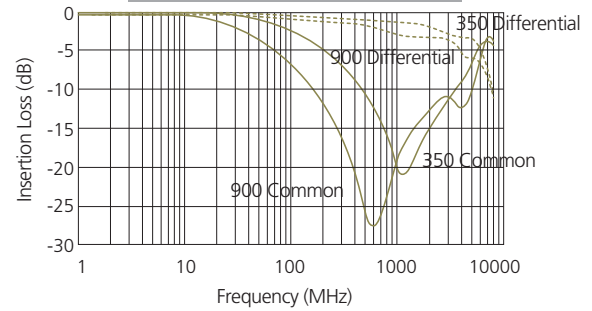
CMFT080604GN Series

Part No.	Common Mode Impedance(Ω) @100MHz	DC Resistance(Ω) [1line]	Rated Current (mA) Max.	Rated Voltage (V) Max	Insulation Resistance (M Ω) Min.
CMFT080604GN350N	35 Ω \pm 30%	1.4 max	100	10	10
CMFT080604GN900M	90 Ω \pm 20%	3.5 max	100	10	10

Impedance vs. Frequency Characteristics(Typ.)



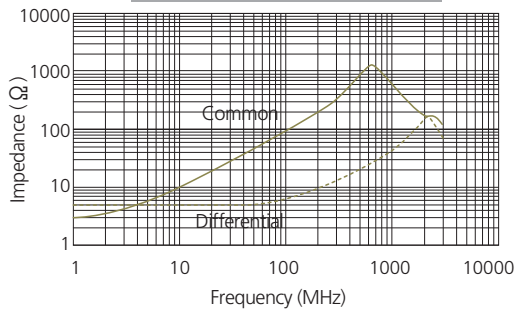
CM/DM Transmission Characteristics(Typ.)



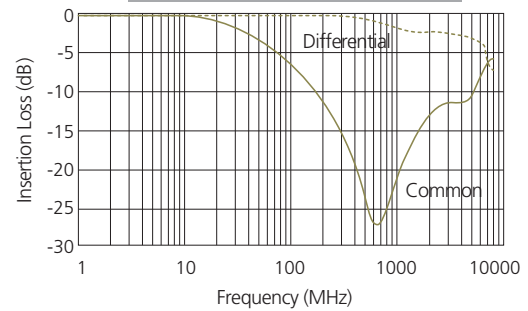
CMFT060503GN Series

Part No.	Common Mode Impedance(Ω) @100MHz	DC Resistance(Ω) [1line]	Rated Current (mA) Max.	Rated Voltage (V) Max	Insulation Resistance (M Ω) Min.
CMFT060503GN900M	90 Ω \pm 20%	3.9 max	100	5	10

Impedance vs. Frequency Characteristics(Typ.)



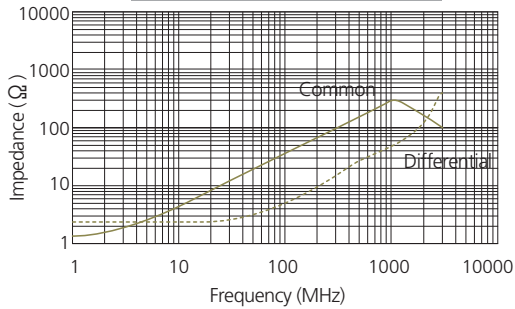
CM/DM Transmission Characteristics(Typ.)



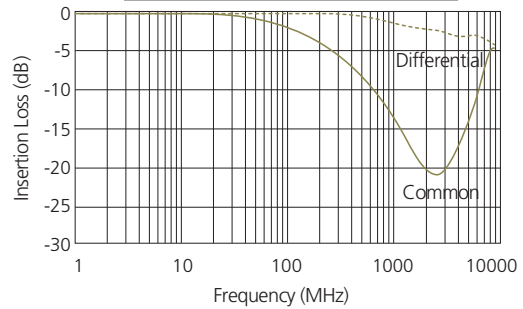
CMFT080604HN Series

Part No.	Common Mode Impedance(Ω) @100MHz	DC Resistance(Ω) [1line]	Rated Current (mA) Max.	Rated Voltage (V) Max	Insulation Resistance (M Ω) Min.
CMFT080604HN350S	35 Ω \pm 12 Ω	1.3 max	100	10	10

Impedance vs. Frequency Characteristics(Typ.)



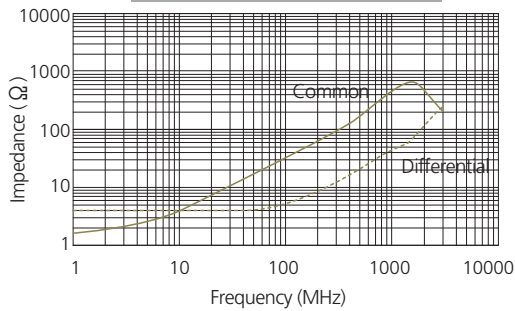
CM/DM Transmission Characteristics(Typ.)



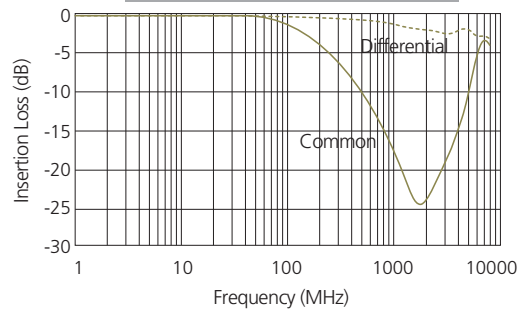
CMFT060503HN Series

Part No.	Common Mode Impedance(Ω) @100MHz	DC Resistance(Ω) [1line]	Rated Current (mA) Max.	Rated Voltage (V) Max	Insulation Resistance (M Ω) Min.
CMFT060503HN350S	35 Ω \pm 12 Ω	2.4 max	100	5	10

Impedance vs. Frequency Characteristics(Typ.)



CM/DM Transmission Characteristics(Typ.)

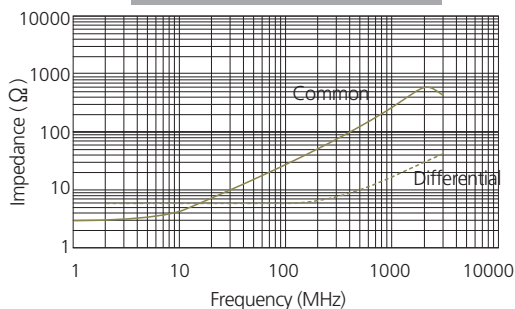


Common Mode Filter

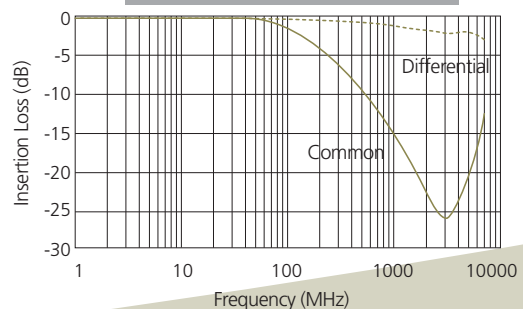
CMFT040302HN Series

Part No.	Common Mode Impedance(Ω) @100MHz	DC Resistance(Ω) [1line]	Rated Current (mA) Max.	Rated Voltage (V) Max	Insulation Resistance (M Ω) Min.
CMFT040302HN350S	35 Ω \pm 12 Ω	3.5 max	100	5	10

Impedance vs. Frequency Characteristics(Typ.)



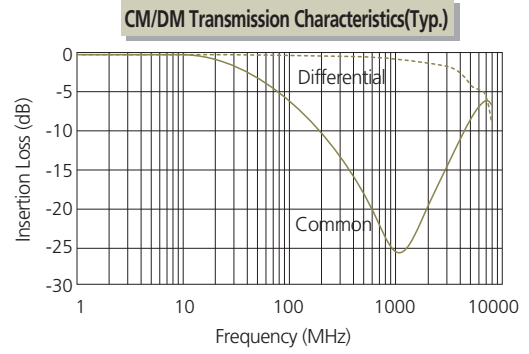
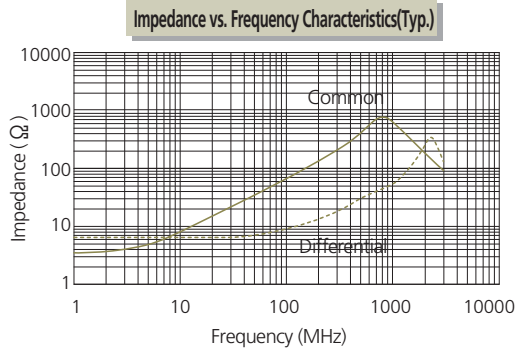
CM/DM Transmission Characteristics(Typ.)





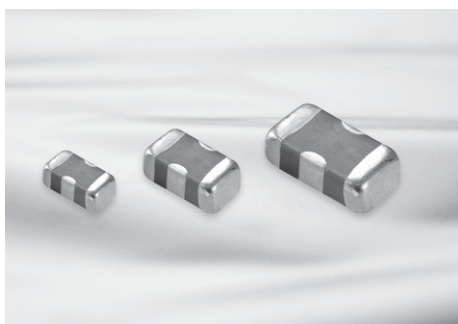
CMFT080604GE Series

Part No.	Common Mode Impedance(Ω) @100MHz	DC Resistance(Ω) Max[1line]	Capacitance (pF) Max @1MHz	Leakage Current (μ A) Max.	Rated Current (mA) Max.	Rated Voltage (V) Max	Insulation Resistance (M Ω) Min.
CMFT080604GE750N	75 Ω \pm 30%	3.3 max	1	10	100	10	10



EMI products

3-Terminal Capacitor



Feature

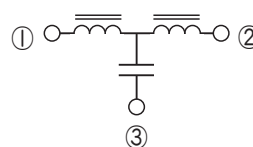
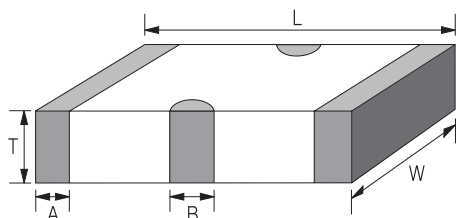
- Lower ESL Characteristics
- High Performance at High Frequency Range
- Small size enables high density mounting
- Effective noise suppression filter

Application

- High frequency EMI prevention applicable to digital equipment such as TV, VCR, LCD monitors and PDP TVs.
- Computer equipment such as personal computers and peripherals.

More excellent by-pass filter than MLCC.
EMIC Series is capacitor type of three terminals and low residual inductance value.

Dimensions



Equivalent circuit

Unit : mm

SIZE CODE	L	W	T	A	B
10	1.6±0.15	0.8±0.1	0.6±0.1	0.25±0.15	0.4±0.1
21	2.0±0.2	1.25±0.2	0.8±0.2	0.3±0.2	0.6±0.2
31	3.2±0.2	1.6±0.2	1.1max	0.4±0.3	1.0±0.3

Part Numbering

EMIC 10 B 473 S A N C
(1) (2) (3) (4) (5) (6) (7) (8)

- (1) Chip EMI Filter 3-Terminal Capacitor For Signal line
- (2) Dimensions
- (3) Capacitance temperature characteristics
C : 0±30ppm/°C
A : ±15%(-55~85°C)
B : ±15%(-55~125°C)
F : -82~+22%(-30~+85°C)
- (4) Nominal capacitance (101: 100pF, 102: 1000pF, 104: 100000pF)
- (5) Capacitance tolerance (M: ±20%, S: +50%,-20%)
- (6) Rated voltage (P: 10V, O: 16V, A: 25V, B: 50V)
- (7) Thickness option (N: Standard, A: Thinner than standard, B: Thicker than standard)
- (8) Packaging (C: Paper 7" Reel, D: Paper 13" Reel)



EMIC 1608(0603) Type

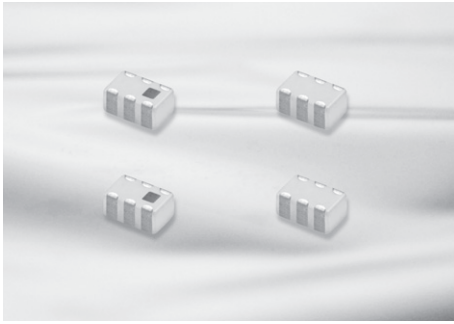
Part No.	Capacitance (pF)	Tolerance	Rated Voltage (V) Max.	Insulation Resistance (MΩ)	DC Resistance (Ω) Max.	Rated Current (mA) Max
EMIC10B104MONC	100000	+20~-20%	16	1000 min	0.1	2000

EMIC 2012(0805) Type

Part No.	Capacitance (pF)	Tolerance	Rated Voltage (V) Max.	Insulation Resistance (MΩ)	DC Resistance (Ω) Max.	Rated Current (mA) Max
EMIC21B471SBNC	470	+50~-20%	50	10000 min	0.3	300
EMIC21B223SBNC	22000	+50~-20%	50	10000 min	0.08	1000
EMIC21F104SANC	100000	+50~-20%	25	1000 min	0.1	1000

EMIC 3216(1206) Type

Part No.	Capacitance (pF)	Tolerance	Rated Voltage (V) Max.	Insulation Resistance (MΩ)	DC Resistance (Ω) Max.	Rated Current (mA) Max
EMIC31B222MANC	2200	+20~-20%	25	1000 min	0.3	300
EMIC31B104SANC	100000	+50~-20%	25	1000 min	0.1	1000



Feature

- Small and thin size
- Low Insertion Loss
- Lead free

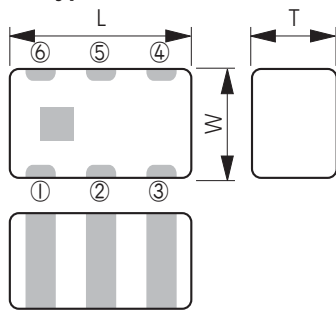
Application

- Applying to mobile phones and wireless LAN Combo.
- AMPS/GPS, AMPS/PCS, CDMAWCDMA, CDMA/S-DMB, PCS/S-DMB, T-DMB/CDMA,
- T-DMB/K-PCS, CDMAW-LAN, CDMA/K-PCS, iDEN/GPS

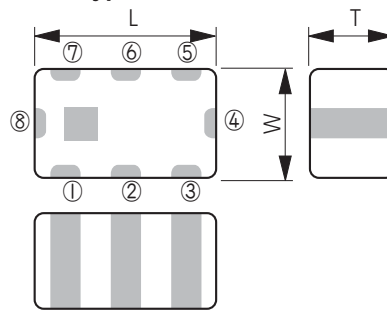
Diplexer is used for separating specific frequency in mobile phones and wireless LAN 11a/b/g. Two kinds of pin assignment demanded on customers are lined up so that designing circuit regardless output direction is available.

Dimensions

■ F Type



■ H Type



Dimension(mm)		Terminal	
L	2.00±0.15	Common	②
W	1.25±0.15	Low Band	⑥
		High Band	④
T	0.95±0.10	GND	① ③ ⑤

Dimension(mm)		Terminal	
L	2.00±0.15	Common	②
W	1.25±0.15	Low Band	⑧
		High Band	④
T	0.95±0.15	GND	①③⑤⑥⑦

※ Pin assignment can be changeable

Part Numbering

DX 21 T F 3L 01
 (1) (2) (3) (4) (5) (6)

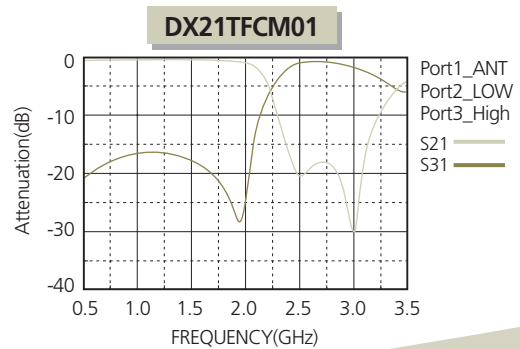
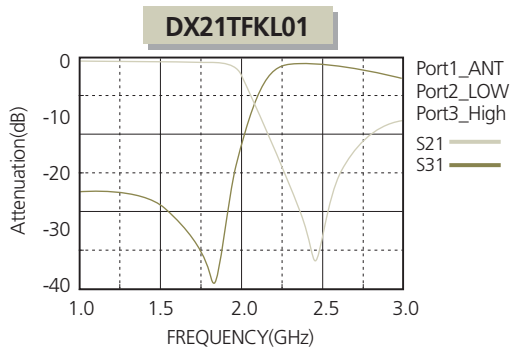
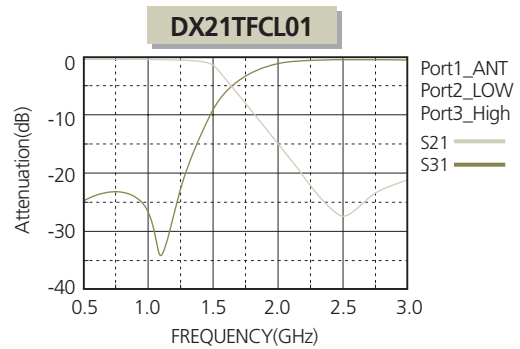
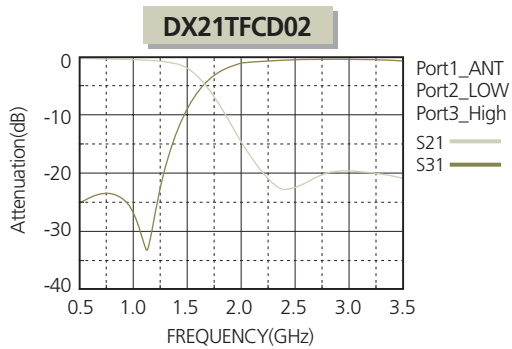
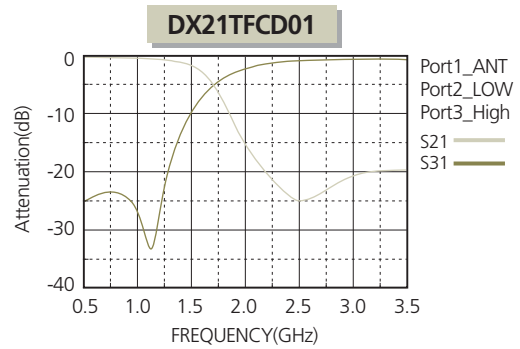
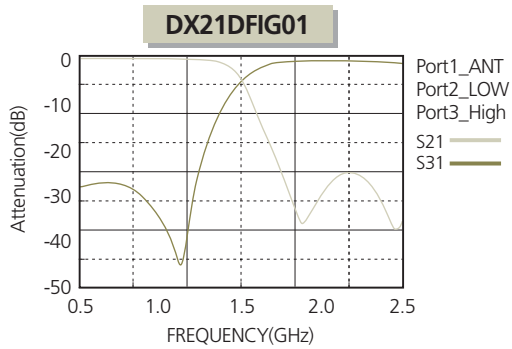
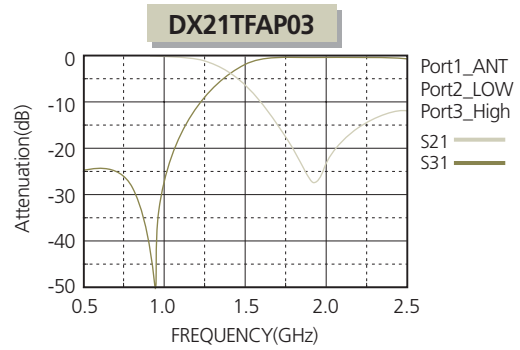
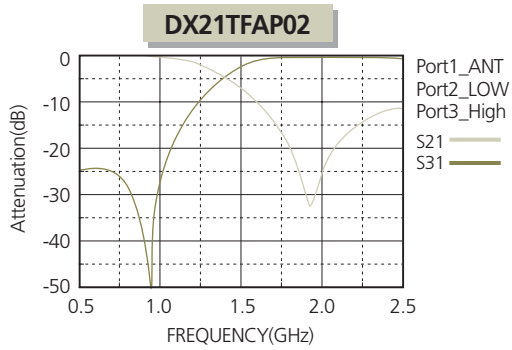
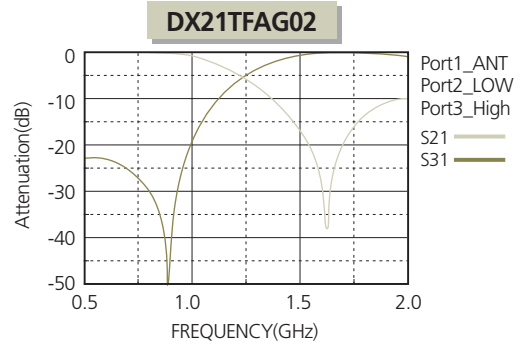
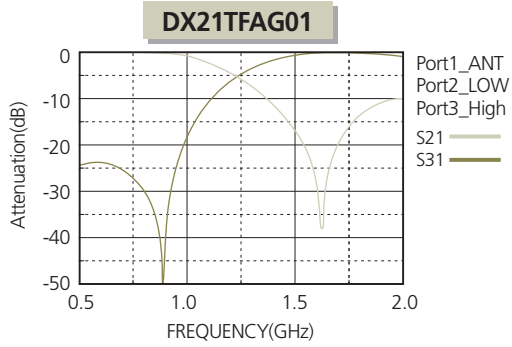
- (1) Diplexer
- (2) Dimension
- (3) Material code
- (4) Terminal number (F: 6, H: 8)
- (5) Low band: Band 3
High band: L Band
- (6) Serial number, pin assignment



HHP Diplexer

Part No.	Application	Thickness (mm)	Center Frequency	Insertion Loss (dB) Max.	Attenuation(dB) Min.
DX21TFAG01	APMS / GPS	0.95	859MHz/ 1575MHz	0.5 at 859MHz	15 at 1575MHz
				0.7 at 1575MHz	15 at 859MHz
DX21TFAG02	APMS / GPS	0.95	859MHz/ 1575MHz	0.5 at 859MHz	15 at 1575MHz
				0.7 at 1575MHz	15 at 859MHz
DX21TFAP02	APMS / PCS	0.95	859MHz/ 1920MHz	0.5 at 859MHz	20 at 1920MHz
				0.55 at 1920MHz	20 at 859MHz
DX21TFAP03	APMS / PCS	0.95	859MHz/ 1920MHz	0.5 at 859MHz	20 at 1920MHz
				0.55 at 1920MHz	20 at 859MHz
DX21DFIG01	iden / GPS	1.05	806MHz/ 1576.42MHz	0.65 at 873.5MHz	16 at 1575.42MHz
				0.70 at 1575.42MHz	16 at 1631MHz
DX21TFCD01	CDMA / S-DMB	0.95	859MHz/ 2630MHz	0.5 at 859MHz	13 at 1798MHz
				0.6 at 2645MHz	17 at 873.5MHz
DX21TFCD02	CDMA / S-DMB	0.95	859MHz/ 2630MHz	0.5 at 859MHz	20 at 2645MHz
				0.6 at 2630MHz	20 at 859MHz
DX21TFCL01	CDMA / W-LAN	0.95	859MHz/ 2450MHz	0.5 at 859MHz	17 at 2630MHz
				0.6 at 2450MHz	20 at 859MHz
DX21TFKL01	K-PCS / W-LAN	0.95	1810MHz/ 2450MHz	0.5 at 859MHz	20 at 2450MHz
				0.8 at 1810MHz	20 at 859MHz
DX21TFM01	Cellular/WiMAX	1.00	1368MHz/ 2592.5MHz	1.0 at 2450MHz	15 at 2450MHz
				1.2 at 2592.5MHz	15 at 1810MHz
DX21TFM01	Cellular/WiMAX	1.00	1368MHz/ 2592.5MHz	1.0 at 1368MHz	15 at 2592.5MHz
				1.2 at 2592.5MHz	15 at 1368MHz

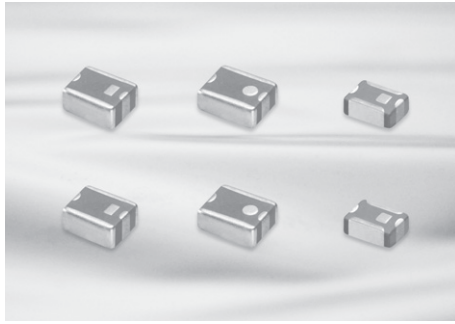
Electrical Characteristics



Diplexer

LC Filter

Band pass/Low pass filter

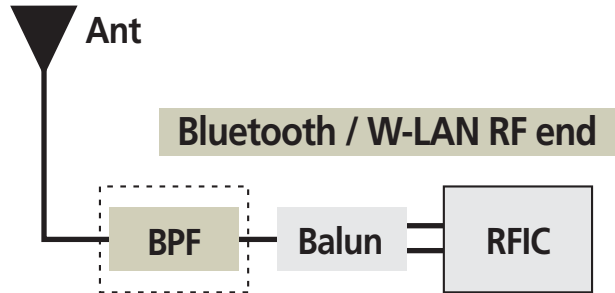


Feature

- High Attenuation, Low Insertion Loss
- Small and Thin size
- Lead free

Application

- Bluetooth Module
- W-LAN Module
- HHP-WiBro, WiMAX, DMB



Chip LC filter made by our own RF design and LTCC fabrication technology has excellent products with low loss and good attenuation characteristics

Part Numbering

LC	B	10	C	2450	K1
(1)	(2)	(3)	(4)	(5)	(6)

- (1) Chip LC Filter
- (2) B: Band Pass Filter, L : Low Pass Filter
- (3) Dimension (10 : 1.6x0.8mm, 21 : 2.0x1.25mm, 22 : 2.5x2.0mm)
- (4) Material code (C, M, T)
- (5) Center frequency [MHz]
- (6) Serial Number

Band Pass Filter

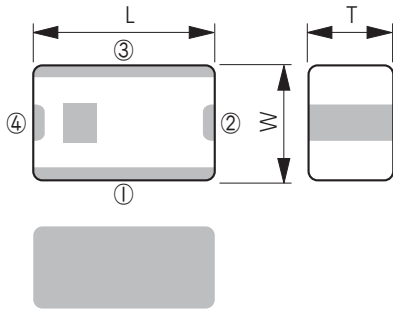
Application	Part No.	L×W×T (mm)	Pass Band (GHz)	IL (dB) Max.	VSWR	Attenuation (dB) Min. (at MHz)			
11b/g BT	LCB22M2450B1	2.5×2.0×1.0	2.4 ~2.5	1.2	2.0	50 (1200)	30 (2f ₀)		
	LCB22B2450L1	2.5×2.0×1.0	2.4 ~2.5	2.2	2.0	40 (2100)	30 (2f ₀)		
	LCB22B2450S1	2.5×2.0×1.0	2.4 ~2.5	2.5	2.0	20 (1700~1900)	20 (2700)	30 (2f ₀)	15 (3f ₀)
	LCB21B2450F2	2.0×1.25×0.75	2.4 ~2.5	2.6	2.0	40 (880~960)	30 (1710~1990)	30 (2f ₀)	
	LCB21B2450Q1	2.0×1.25×0.95	2.4 ~2.5	1.8	2.0	30 (1300)	10 (2000)	20 (3600)	35 (2f ₀)
	LCB21B2450Q3	2.0×1.25×0.75	2.4 ~2.5	1.8	2.0	30 (1300)	10 (2000)	15 (3600)	30 (2f ₀)
	LCB10B2450K3	1.6×0.8×0.6	2.4 ~2.5	2.2	2.0	25 (880~960)	16 (2f ₀)	20 (3f ₀)	
	LCB10B2450K4	1.6×0.8×0.6	2.4 ~2.5	1.8	2.0	27 (880~960)	36 (2f ₀)	36 (3f ₀)	
T-DMB	LCB22G0205A3	2.5×2.0×1.2	0.174 ~0.237	1.5	2.0	10 (100)	40 (1750~1870)		
	LCB22G0205B3	2.5×2.0×1.2	0.174 ~0.237	1.5	2.0	10 (100)	40 (824~894)		

Low Pass Filter

Part No.	Application	L×W×T (mm)	Pass Band (GHz)	IL (dB) Max.	VSWR	Attenuation (dB) Min. (at MHz)		
LCL10T2500A1	WiBro WiMAX	1.6×0.8×0.6	2.3 ~2.7	0.55	1.7	35 (2f ₀)	25 (3f ₀)	
LCL10T2450A1	11b/g,BT	1.6×0.8×0.6	2.4 ~2.5	0.45	1.5	35 (2f ₀)	25 (2f ₀)	



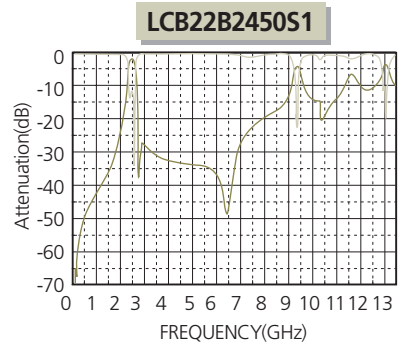
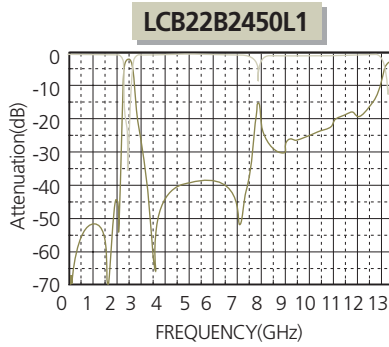
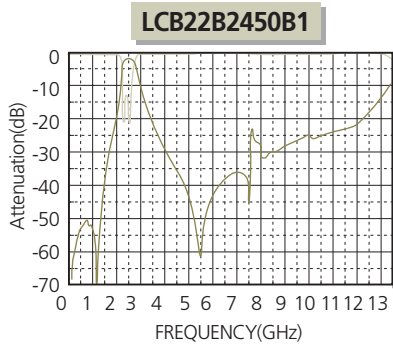
Dimensions & Frequency Characteristics Band Pass Filter



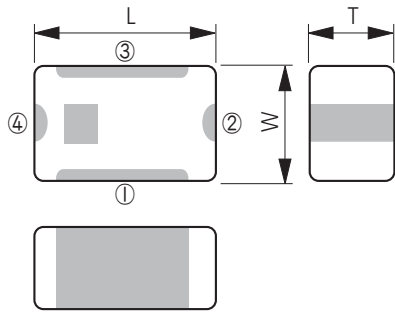
Dimension(mm)	
L	2.50 ± 0.20
W	2.00 ± 0.20
T	1.00 ± 0.10

Terminal	
Input	④
Output	②
GND	① ③

S11
S21



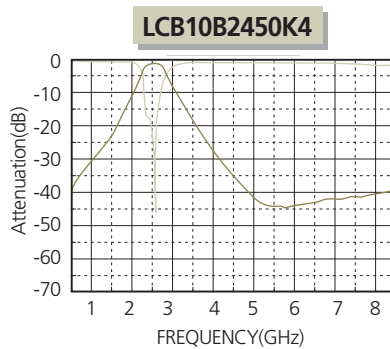
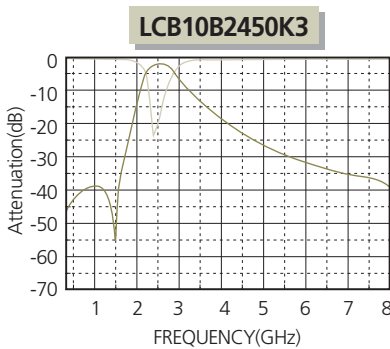
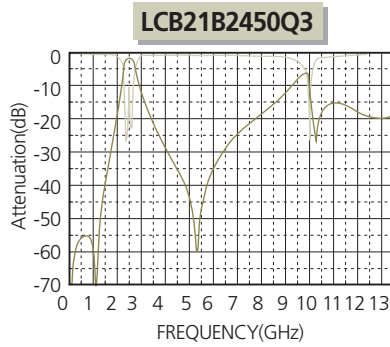
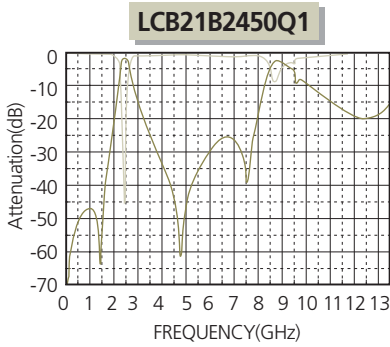
Dimensions & Frequency Characteristics Band Pass Filter



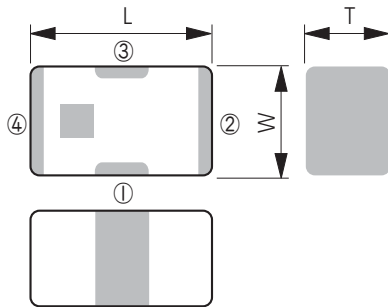
Dimension(mm)	
1608	L 1.60+0.2/-0.1
	W 0.80+0.2/-0.1
	T 0.60±0.10
2012	L 2.00±0.15
	W 1.25±0.10
	T 0.95±0.10 (0.75max : Q3, Q5)

Terminal	
Input	④
Output	②
GND	① ③

S11
S21

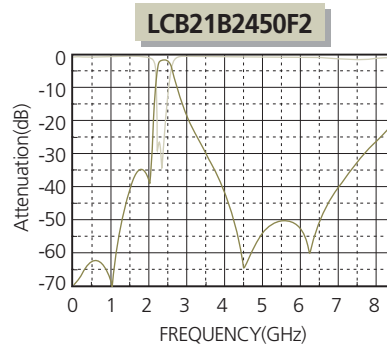


Dimensions & Frequency Characteristics Band Pass Filter

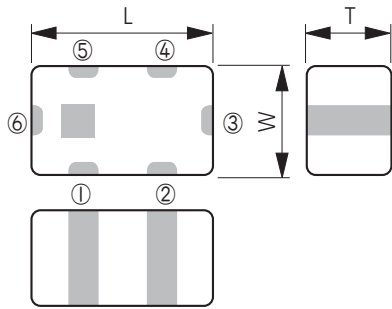


Dimension(mm)			Terminal	
2012	L	2.00 ± 0.15	Input	①
	W	1.25 ± 0.10	Output	③
	T	0.75max	GND	② ④

S11
S21



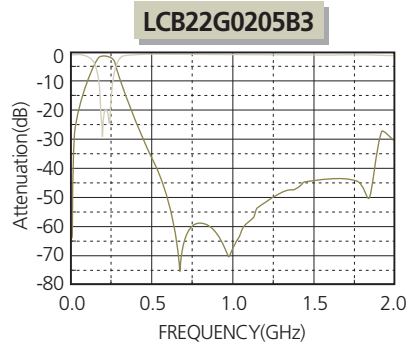
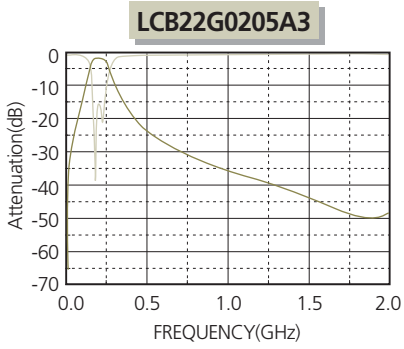
Dimensions & Frequency Characteristics Band Pass Filter



Dimension(mm)	
L	2.50±0.20
W	2.00±0.20
T	1.20±0.10

	Terminal	
	A3	B3
Input	⑥	⑥
Output	③	③
GND	① ⑤	① ④
N.C	② ④	② ⑤

S11
S21



X-ON Electronics

Largest Supplier of Electrical and Electronic Components

Click to view similar products for [samsung manufacturer](#):

Other Similar products are found below :

[DA61-04475B](#) [DA97-17194A](#) [RC2012F2001CS](#) [CL10B472JB8NNND](#) [KM44C4100BK-60](#) [CL05C160JB5NCNC](#) [CL21C151FBANNWC](#)
[M471B5673EH1-CH900](#) [K4H510838B-TCB3](#) [RC1608F86R6CS](#) [CL31C120JBCNNNC](#) [CL21CR47BBANNNC](#) [CL32C103JBFNNNE](#)
[CL31B223JBCNNNC](#) [CL21C221JDCNFNC](#) [CL21B223KBANNWC](#) [CL10B563KB8NFNC](#) [CL10B473KB8SFNC](#) [CL10B122KB8NFNC](#) [SI-](#)
[B8T171550WW](#) [SL-B8V2N70LAWW](#) [BN96-35590A](#) [BN96-31876D](#) [DC97-15103A](#) [DA67-02638B](#) [BN96-32239D](#) [BN39-02189A](#) [BN39-](#)
[02190A](#) [DA61-08574A](#) [DA97-17215A](#) [DC47-00027F](#) [AH59-02748B](#) [3903-001209](#) [RC1005F103CS](#) [RF062PJ150CS](#) [CL10A335MQ8NNNC](#)
[CL10B823KA8NNNC](#) [CL10C680JB8NFNC](#) [CL31B681KHFNENE](#) [CL31C101JCCNFNC](#) [RC1608F753CS](#) [RC1005FR100CS](#)
[CL10F334ZO8NNNC](#) [CL31C331KBCNBNC](#) [CL31B683KBCNNNC](#) [CL21C2R4CBANNNC](#) [CL05B104MP5NNNC](#) [DC97-16350E](#) [AH81-](#)
[09068A](#) [DC66-00814A](#)