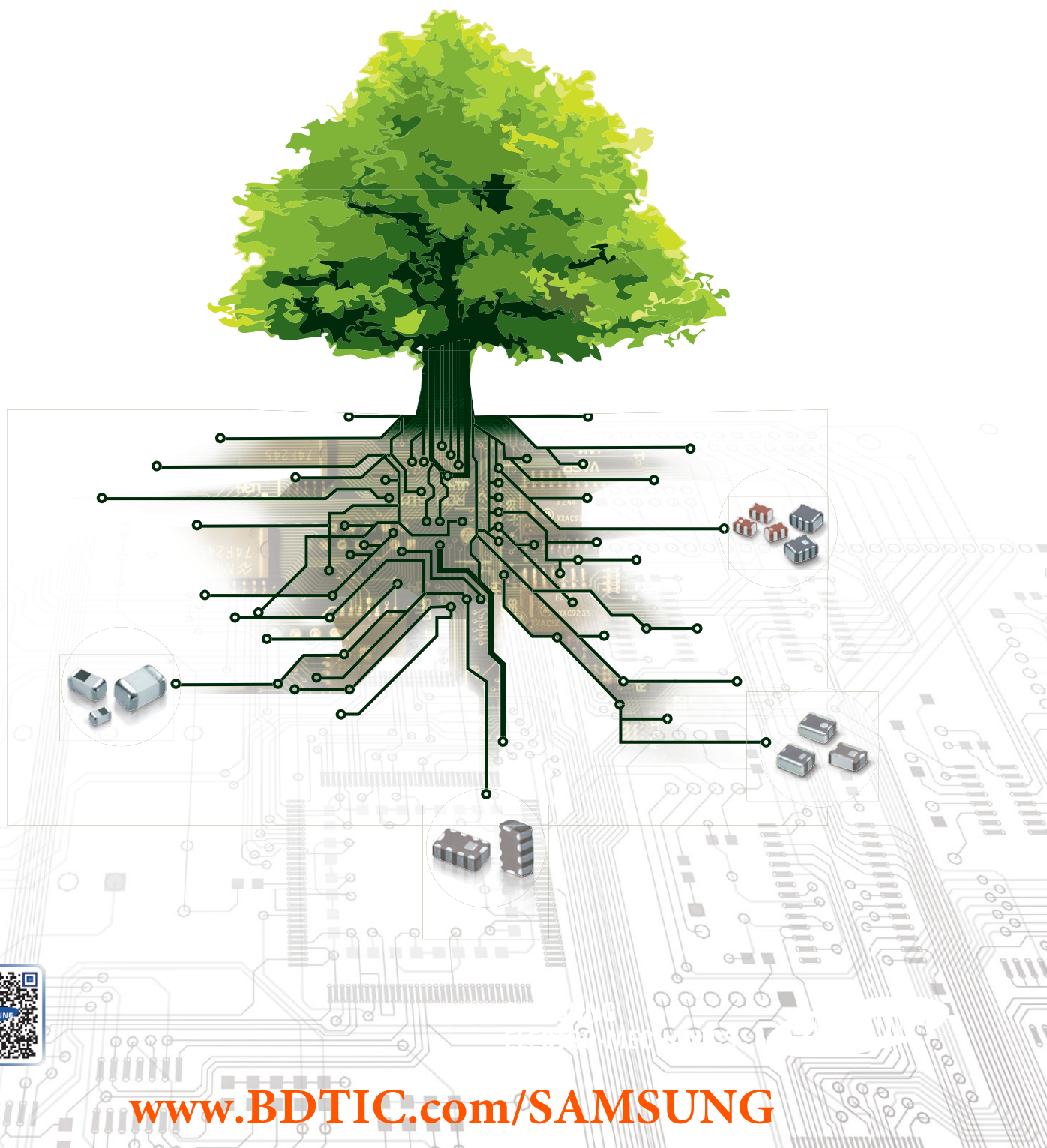


July 2012



MULTILAYER CHIP COMPONENTS



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Bead

Type	Series	Size Code mm (inch)	Impedance Range (Ω) at 100MHz	Effective Frequency Range				
				1MHz	10MHz	100MHz	1GHz	10GHz
General Signal CIB:monolayer CIM:multilayer	CIB10P	1608(0603)	10~33					
	CIB21P	2012(0805)	11~47					
	CIB31P	3216(1206)	26~70					
	CIB32P	3225(1210)	31~60					
	CIB41P	4516(1806)	80~150					
	CIM03U	0603(0201)	80~600					
	CIM05U	1005(0402)	10~1000					
	CIM10U	1608(0603)	80~2000					
	CIM21U	2012(0805)	80~2000					
	CIM31U	3216(1206)	10~600					
High speed signal	CIB05J	1005(0402)	10					
	CIM03J	0603(0201)	120~240					
	CIM05J	1005(0402)	30~1800					
	CIM10J	1608(0603)	30~2500					
	CIM21J	2012(0805)	26~2500					
	CIM31J	3216(1206)	150~1500					
	CIM03N	0603(0201)	30~80					
	CIM05N	1005(0402)	75~220					
	CIM10N	1608(0603)	70~240					
	CIM21N	2012(0805)	70~240					
	CIM10K	1608(0603)	1500~2500					
	CIM21K	2012(0805)	1500~2500					
	CIM05F	1005(0402)	5~220					
	CIM10F	1608(0603)	47~470					
	CIM05H	1005(0402)	80~160					
High Current	CIC05P	1005(0402)	30~120					
	CIC10P	1608(0603)	8~600					
	CIC21P	2012(0805)	11~600					
	CIC31P	3216(1206)	30~600					
	CIC41P	4516(1806)	26~600					
	CIC05J	1005(0402)	60					
	CIC10J	1608(0603)	8~600					
	CIC21J	2012(0805)	60~600					
	CIC31J	3216(1206)	30~600					
	CIC41J	4516(1806)	26~600					
	CIC05Y	1005(0402)	30~120					
Ultra high current	CIS10P	1608(0603)	26~600					
	CIS10J~CIS41J	1608(0603)~4516(1806)	30~120					
	CIS21P~CIS41P	2012(0805)~4516(1806)	30~240					
GHz Band Noise Suppression	CIV05U	1005(0402)	600~1000					
	CIV05J	1005(0402)	1000~1800					

* Note : This catalog has only typical specifications because there is no space for detailed specifications.
Please approve our product specifications or transact the approval sheet for product specifications before ordering.

Inductor

Type	Series	Size Code mm (inch)	Inductance(H) Range						
			1n	10n	100n	1u	10u	100u	1m
General Frequency range	CIL05	1005(0402)				2.2μH			
	CIL10	1608(0603)			0.047~33μH				
	CIL21	2012(0805)			0.047~33μH				
	CIL31	3216(1206)			0.047~33μH				
High Frequency range	CIH03T	0603(0201)	1~56nH						
	CIH03Q	0603(0201)	0.6~100nH						
	CIH03U	0603(0201)	0.6~100nH						
	CIH05T	1005(0402)	1~100nH						
	CIH10T	1608(0603)	1~270nH						
DC-DC converter (Power Inductor)	CIG10F(Low Profile)	1608(0603)				0.47~2.2μH			
	CIG10W(Normal)	1608(0603)				0.27~4.7μH			
	CIG21F(Low Profile)	2012(0805)				0.47~2.2μH			
	CIG21W(Normal)	2012(0805)				1.0~4.7μH			
	CIG21L(Low RDC)	2012(0805)				0.47~4.7μH			
	CIG21C	2012(0805)				2.2~4.7μH			
	CIG2MW	2012(0805)				0.47~4.7μH			
	CIG22L(Low RDC)	2520(1008)				0.47~10μH			
	CIG22H(High Current)	2520(1008)				0.33~4.7μH			
	CIG22E(High Efficiency Type)	2520(1008)				0.33~2.2μH			
	CIG22B	2520(1008)				0.27~4.7μH			
	CIG32W	3225(1210)				1.0μH			
	CIG32H	3225(1210)				2.2μH			

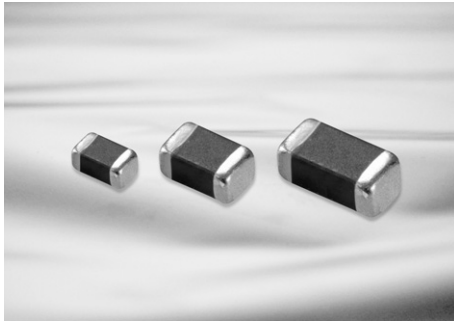
Filters

Type	Series	Size Code mm (inch)
3-Terminal capacitor	EMIC10B	1608(0603)
	EMIC21B	2012(0805)
	EMIC21F	2012(0805)
	EMIC31B	3216(1206)
Diplexer	DX21	2012(0805)
LC Filter	LCB10	1608(0603)
	LCB21	2012(0805)
	LCB22	2520(1008)

* Note : This catalog has only typical specifications because there is no space for detailed specifications.
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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

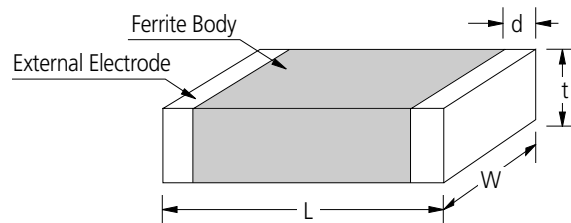
The CIB Series is composed of mono-layer internal conductor that allows low impedance and low DC resistance.

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°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
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

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

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

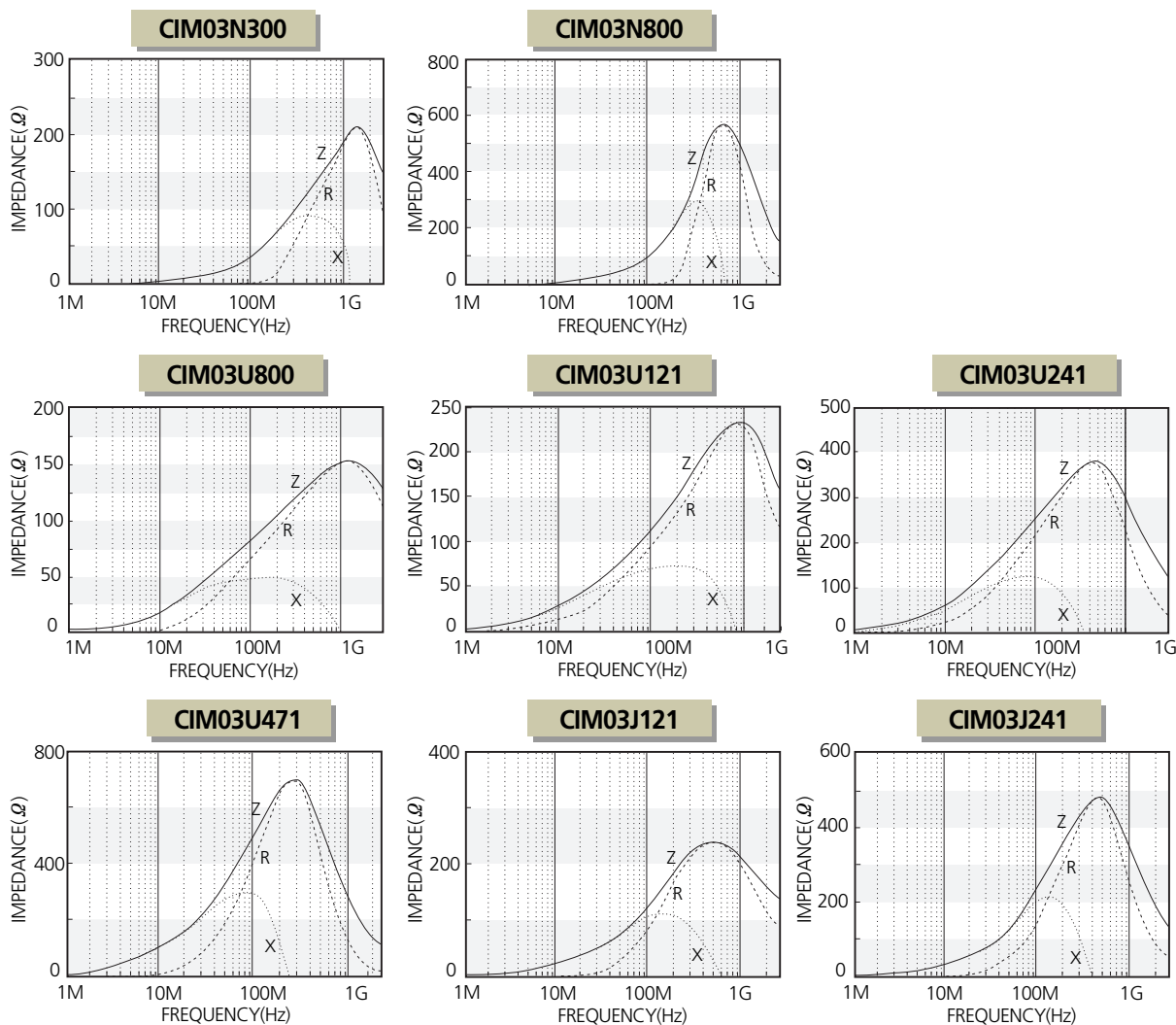
* Note : This catalog has only typical specifications because there is no space for detailed specifications.
 Please approve our product specifications or transact the approval sheet for product specifications before ordering.

CIM 0603(0201) Type

Part No.	Thickness (mm)	Impedance (Ω) $\pm 25\%$ @ 100 MHz	DC Resistance (Ω) Max.	Rated Current (mA) Max.
CIM 03N 300	0.3 ± 0.03	30	0.70	150
CIM 03N 800	0.3 ± 0.03	80	1.20	100
CIM 03U 800	0.3 ± 0.03	80	0.40	200
CIM 03U 121	0.3 ± 0.03	120	0.50	200
CIM 03U 241	0.3 ± 0.03	240	0.75	200
CIM 03U 471	0.3 ± 0.03	470	1.30	100
CIM 03U 601	0.3 ± 0.03	600	1.50	100
CIM 03J 121	0.3 ± 0.03	120	0.50	200
CIM 03J 241	0.3 ± 0.03	240	1.00	100

* Test equipment: Agilent E4991A + 16192A

Electrical Characteristics



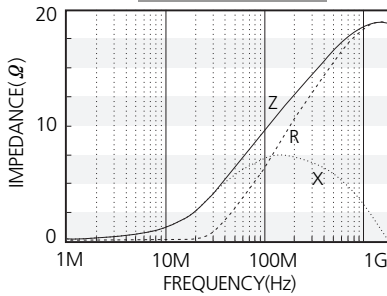
CIB/CIM1005(0402) Type

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

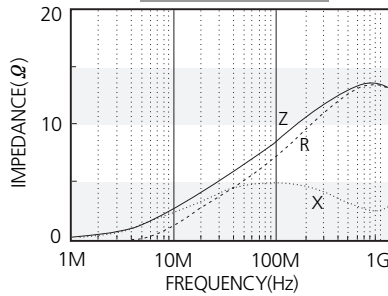
*Test equipment: Agilent E4991A + 16192A

Electrical Characteristics

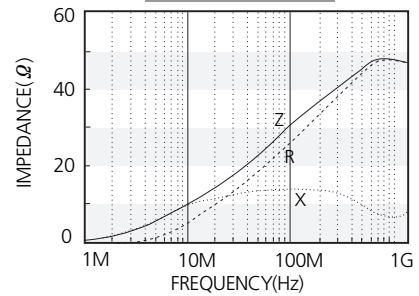
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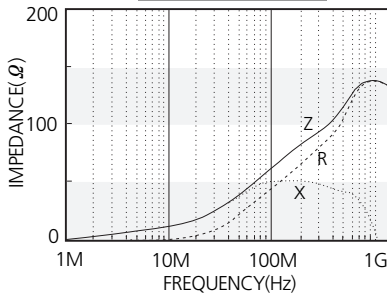
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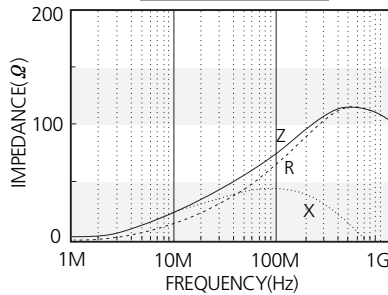
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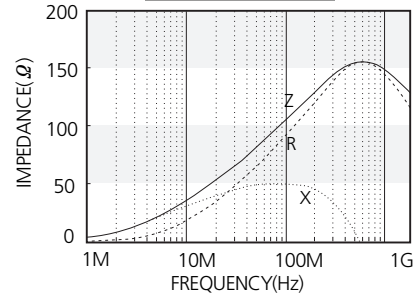
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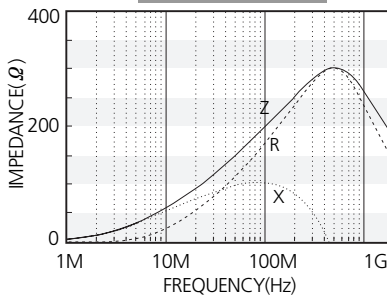
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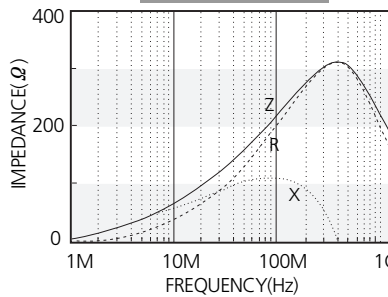
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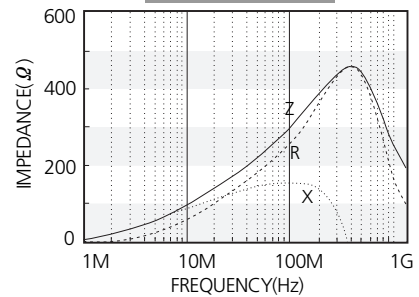
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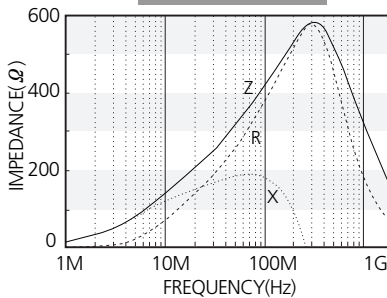
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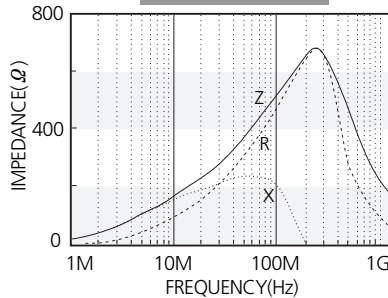
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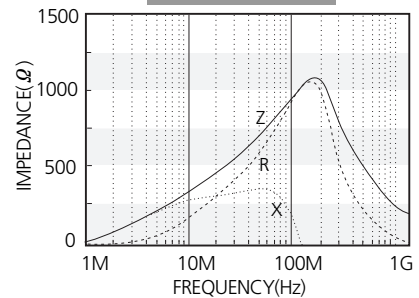
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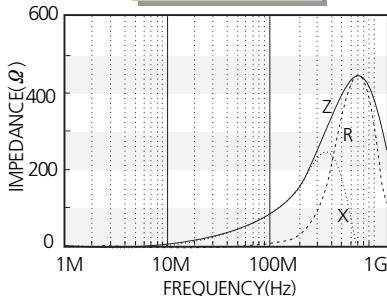
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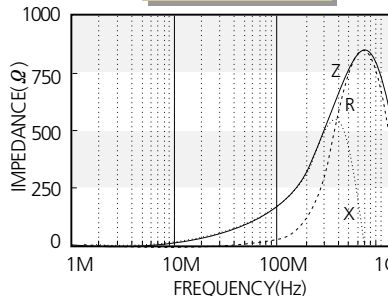
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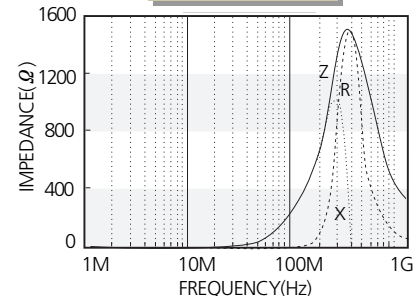
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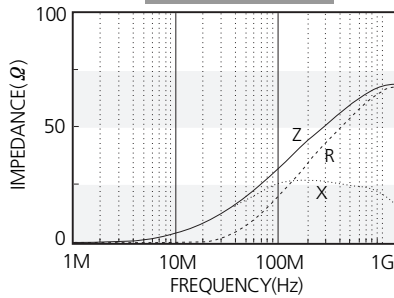


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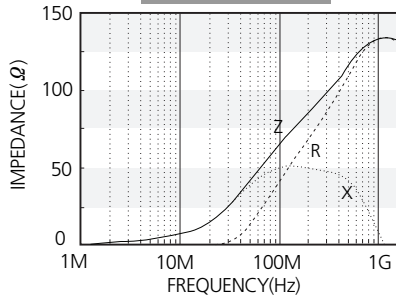


Electrical Characteristics

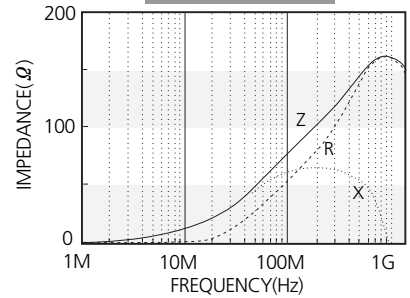
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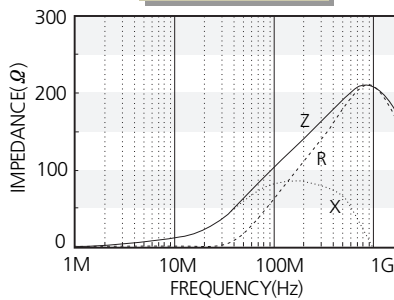
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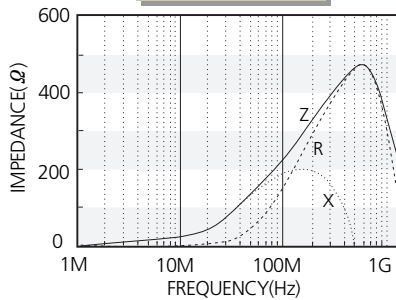
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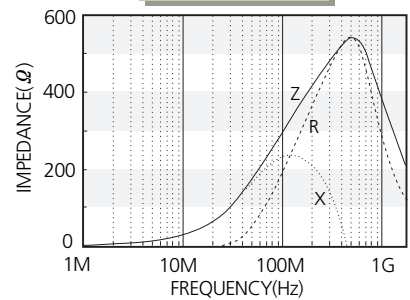
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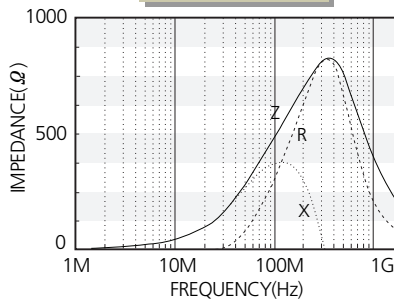
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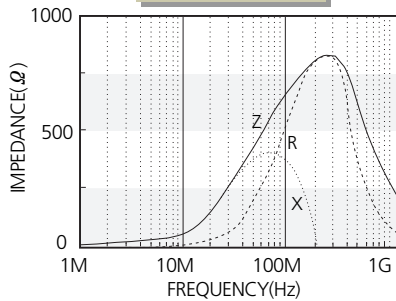
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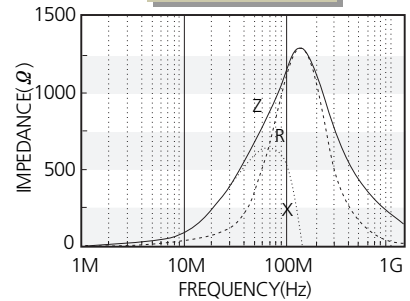
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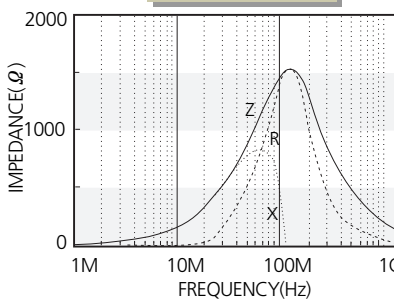
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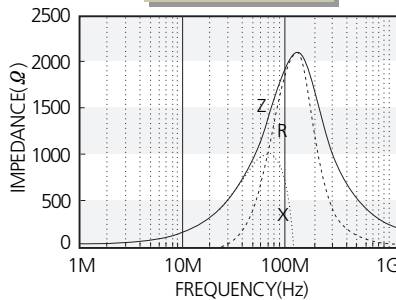
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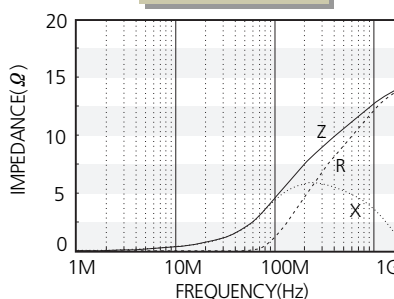
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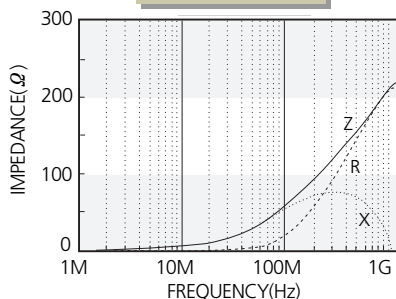
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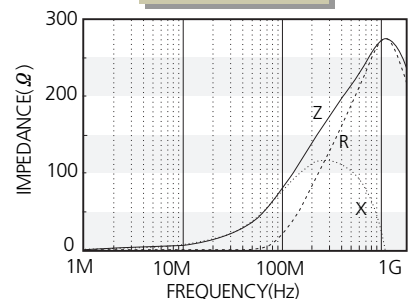
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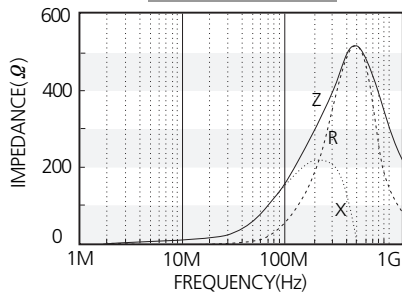


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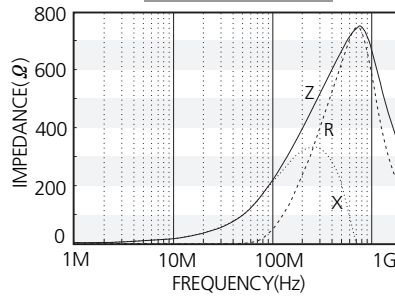


Electrical Characteristics

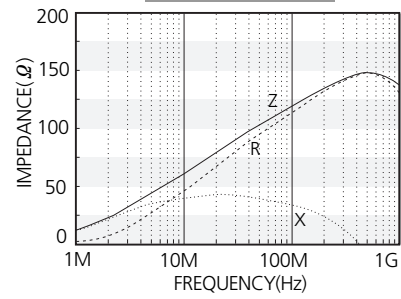
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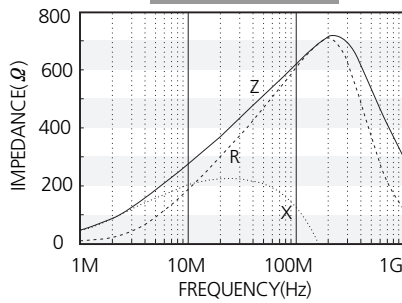
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CIM05H121



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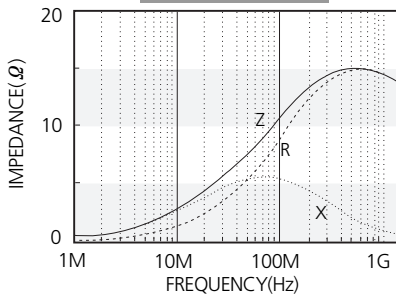
CIB/CIM 1608(0603) Type

Part No.	Thickness (mm)	Impedance (Ω) $\pm 25\%$ @ 100 MHz	DC Resistance (Ω) Max.	Rated Current (mA) Max.
CIB 10P 100	0.8 $\pm$ 0.15	10	0.05	1000
CIB 10P 220	0.8 $\pm$ 0.15	22	0.05	1500
CIB 10P 260	0.8 $\pm$ 0.15	26	0.08	1000
CIB 10P 300	0.8 $\pm$ 0.15	30	0.08	1000
CIB 10P 330	0.8 $\pm$ 0.15	33	0.08	1000
CIM 10U 800	0.8 $\pm$ 0.15	80	0.10	600
CIM 10U 121	0.8 $\pm$ 0.15	120	0.15	500
CIM 10U 221	0.8 $\pm$ 0.15	220	0.25	400
CIM 10U 241	0.8 $\pm$ 0.15	240	0.25	400
CIM 10U 301	0.8 $\pm$ 0.15	300	0.30	400
CIM 10U 471	0.8 $\pm$ 0.15	470	0.35	300
CIM 10U 601	0.8 $\pm$ 0.15	600	0.38	500
CIM 10U 102	0.8 $\pm$ 0.15	1000	0.50	400
CIM 10U 202	0.8 $\pm$ 0.15	2000(at 70MHz)	1.20	200
CIB 10J 300	0.8 $\pm$ 0.15	30	0.10	1000
CIM 10J 400	0.8 $\pm$ 0.15	40	0.12	600
CIM 10J 470	0.8 $\pm$ 0.15	47	0.12	600
CIM 10J 600	0.8 $\pm$ 0.15	60	0.12	600
CIM 10J 750	0.8 $\pm$ 0.15	75	0.15	550
CIM 10J 800	0.8 $\pm$ 0.15	80	0.15	550
CIM 10J 121	0.8 $\pm$ 0.15	120	0.20	500
CIM 10J 151	0.8 $\pm$ 0.15	150	0.20	400
CIM 10J 221	0.8 $\pm$ 0.15	220	0.30	400
CIM 10J 241	0.8 $\pm$ 0.15	240	0.30	400
CIM 10J 301	0.8 $\pm$ 0.15	300	0.35	400
CIM 10J 471	0.8 $\pm$ 0.15	470	0.35	300
CIM 10J 601	0.8 $\pm$ 0.15	600	0.45	300
CIM 10J 751	0.8 $\pm$ 0.15	750	0.50	300
CIM 10J 102	0.8 $\pm$ 0.15	1000	0.60	250
CIM 10J 152	0.8 $\pm$ 0.15	1500	0.70	250
CIM 10J 252	0.8 $\pm$ 0.15	2500	1.50	200
CIM 10K 152	0.8 $\pm$ 0.15	1500	0.80	250
CIM 10K 202	0.8 $\pm$ 0.15	2000	1.00	200
CIM 10K 252	0.8 $\pm$ 0.15	2500	1.20	200
CIM 10N 700	0.8 $\pm$ 0.15	70	0.30	500
CIM 10N 121	0.8 $\pm$ 0.15	120	0.45	400
CIM 10N 241	0.8 $\pm$ 0.15	240	0.60	300
CIM 10 F 470	0.8 $\pm$ 0.15	47	0.25	550
CIM 10 F 600	0.8 $\pm$ 0.15	60	0.25	550
CIM 10 F 121	0.8 $\pm$ 0.15	120	0.30	500
CIM 10 F 331	0.8 $\pm$ 0.15	330	0.58	400
CIM 10 F471	0.8 $\pm$ 0.15	470	0.85	300

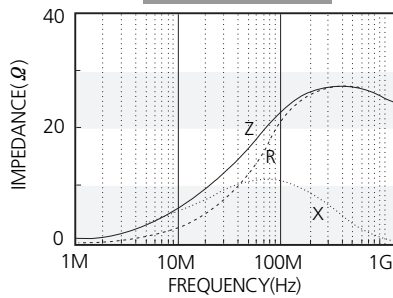
※Test equipment: Agilent E4991A + 16192A

Electrical Characteristics

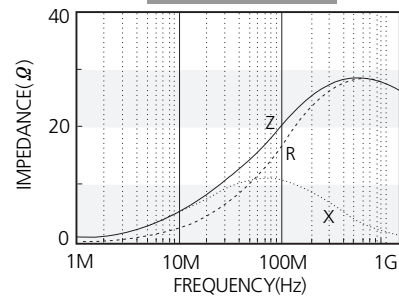
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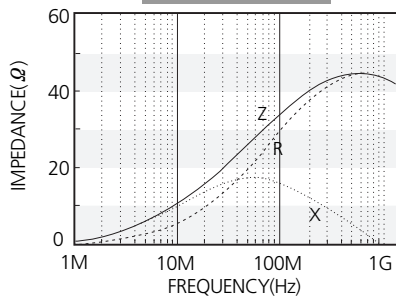
CIB10P220



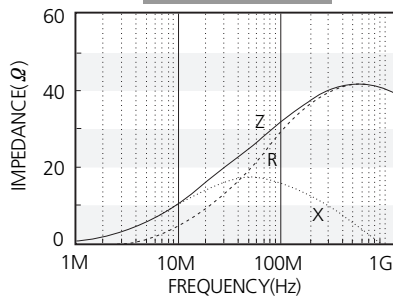
CIB10P260



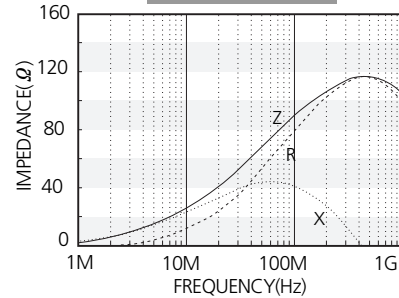
CIB10P300



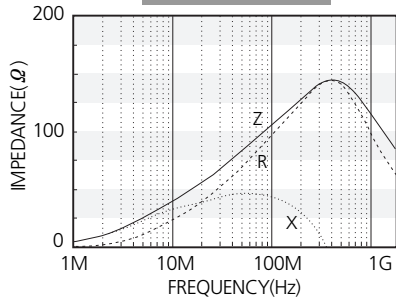
CIB10P330



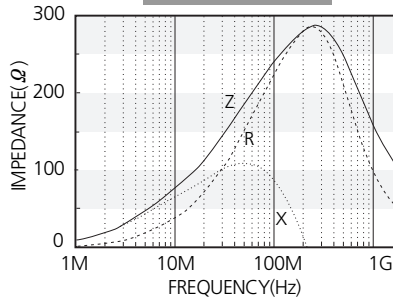
CIM10U800



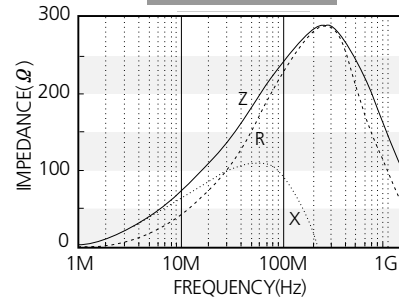
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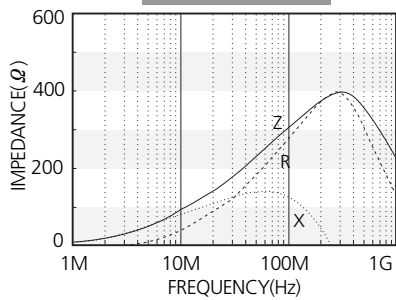
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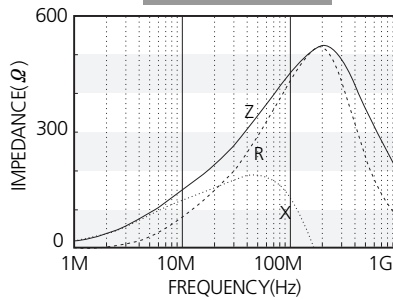
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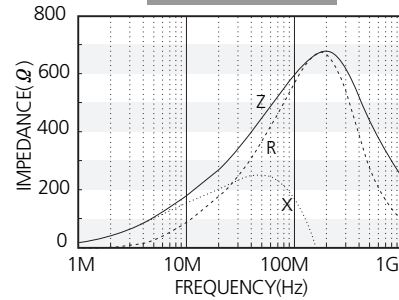
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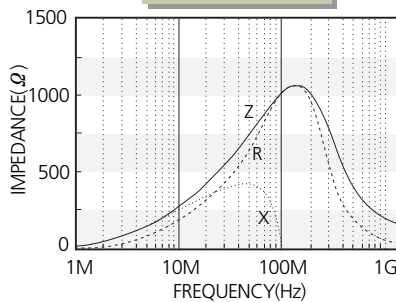
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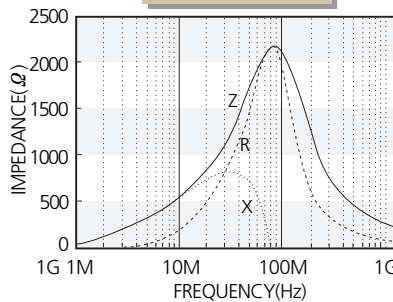
CIM10U601



CIM10U102

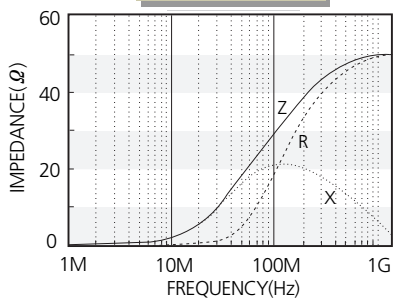


CIM10U202

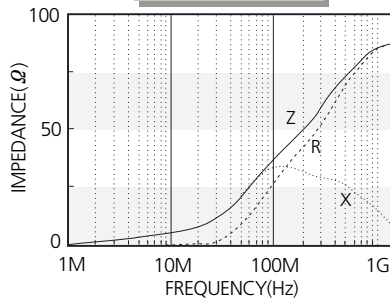


Electrical Characteristics

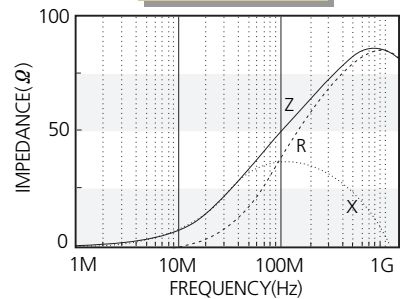
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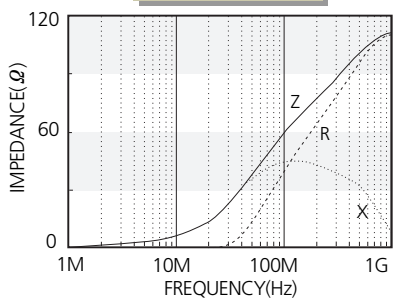
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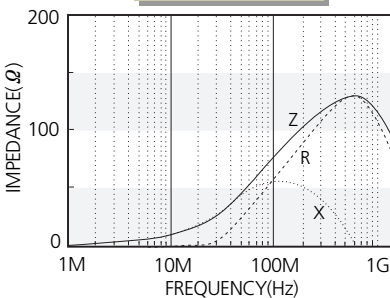
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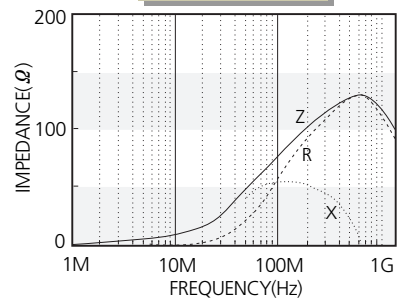
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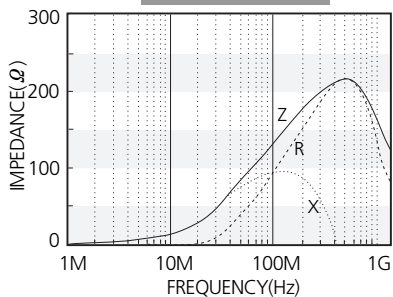
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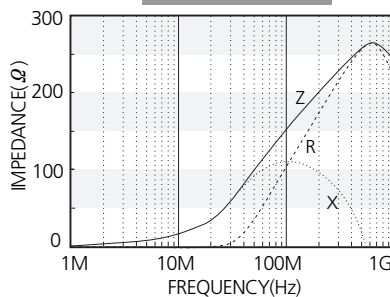
CIM10J800



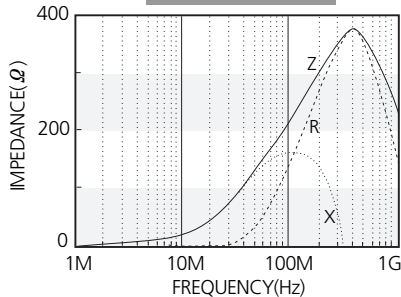
CIM10J121



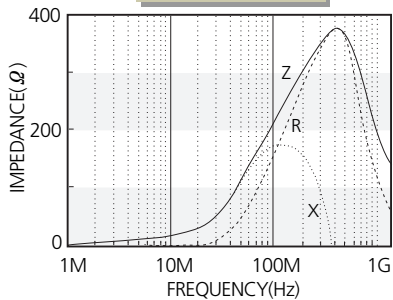
CIM10J151



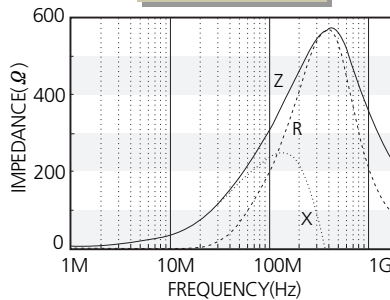
CIM10J221



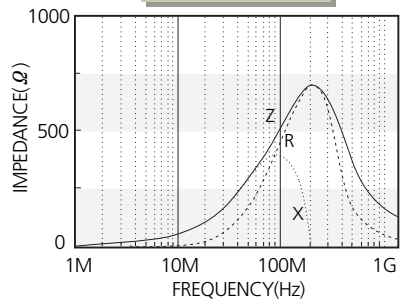
CIM10J241



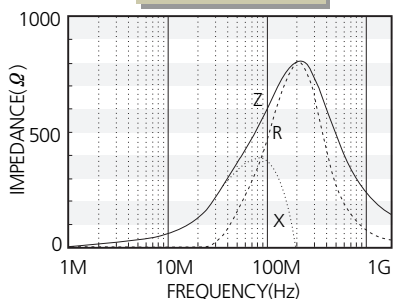
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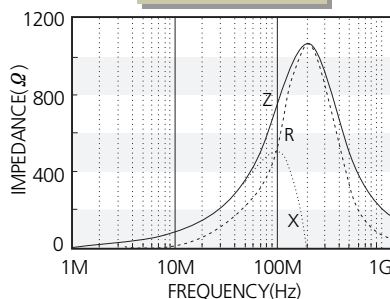
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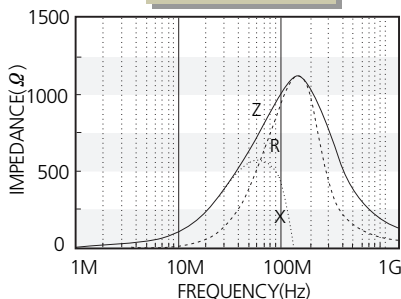
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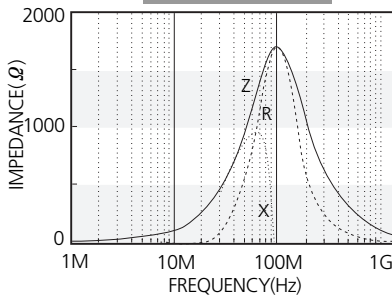


CIM10J102

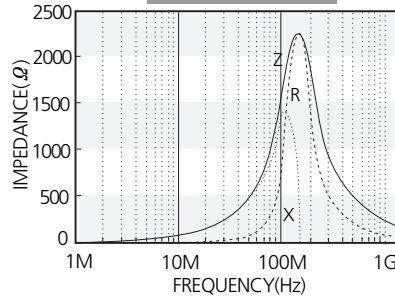


Electrical Characteristics

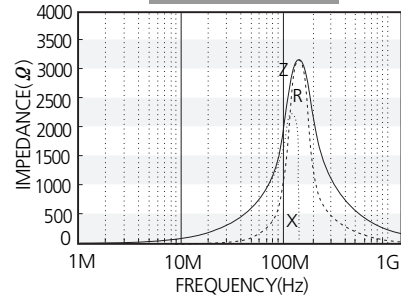
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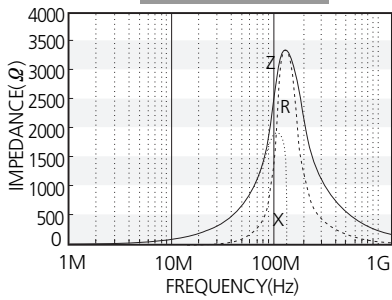
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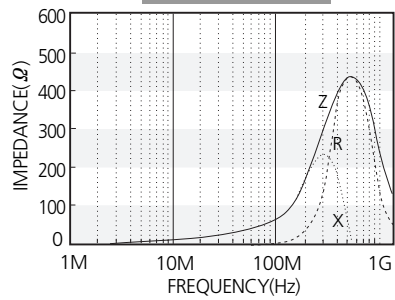
CIM10K202



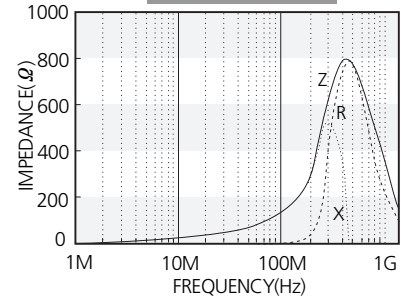
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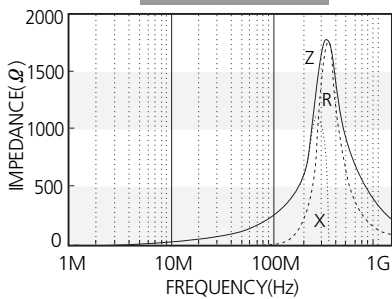
CIM10N700



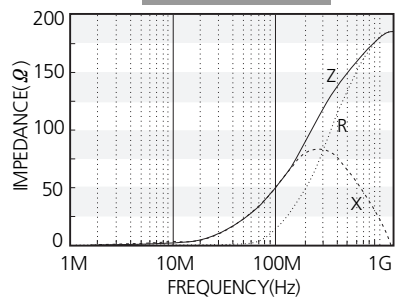
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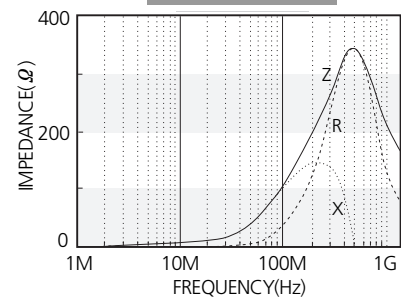
CIM10N241



CIM10F600



CIM10F121



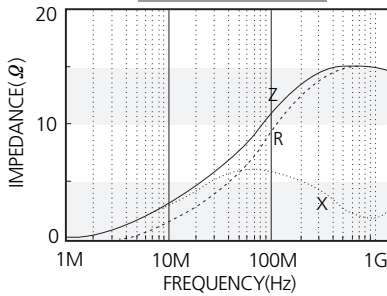
CIB/CIM 2012(0805) Type

Part No.	Thickness (mm)	Impedance (Ω) $\pm 25\%$ @ 100 MHz	DC Resistance (Ω) Max.	Rated Current (mA) Max.
CIB 21P 110	0.9 $\pm$ 0.2	11	0.01	2000
CIB 21P 150	0.9 $\pm$ 0.2	15	0.01	2000
CIB 21P 260	0.9 $\pm$ 0.2	26	0.01	2000
CIB 21P 300	0.9 $\pm$ 0.2	30	0.05	2000
CIB 21P 330	0.9 $\pm$ 0.2	33	0.05	1500
CIB 21P 470	0.9 $\pm$ 0.2	47	0.05	1500
CIB 21P 600	0.9 $\pm$ 0.2	60	0.08	900
CIM 21U 800	0.9 $\pm$ 0.2	80	0.10	900
CIM 21U 101	0.9 $\pm$ 0.2	100	0.10	800
CIM 21U 121	0.9 $\pm$ 0.2	120	0.10	800
CIM 21U 151	0.9 $\pm$ 0.2	150	0.15	600
CIM 21U 241	0.9 $\pm$ 0.2	240	0.15	600
CIM 21U 301	0.9 $\pm$ 0.2	300	0.15	500
CIM 21U 471	0.9 $\pm$ 0.2	470	0.30	500
CIM 21U 601	0.9 $\pm$ 0.2	600	0.30	500
CIM 21U 102	0.9 $\pm$ 0.2	1000(at 70MHz)	0.40	500
CIM 21U 202	0.9 $\pm$ 0.2	2000(at 70MHz)	0.70	300
CIB 21J 260	0.9 $\pm$ 0.2	26	0.05	2000
CIB 21J 300	0.9 $\pm$ 0.2	30	0.05	2000
CIB 21J 400	0.9 $\pm$ 0.2	40	0.05	2000
CIM 21J 600	0.9 $\pm$ 0.2	60	0.08	900
CIM 21J 800	0.9 $\pm$ 0.2	80	0.08	1000
CIM 21J 121	0.9 $\pm$ 0.2	120	0.15	800
CIM 21J 151	0.9 $\pm$ 0.2	150	0.15	500
CIM 21J 221	0.9 $\pm$ 0.2	220	0.20	500
CIM 21J 241	0.9 $\pm$ 0.2	240	0.20	500
CIM 21J 301	0.9 $\pm$ 0.2	300	0.2	500
CIM 21J 471	0.9 $\pm$ 0.2	470	0.25	500
CIM 21J 601	0.9 $\pm$ 0.2	600	0.25	500
CIM 21J 102	0.9 $\pm$ 0.2	1000	0.35	500
CIM 21J 152	0.9 $\pm$ 0.2	1500(at 70MHz)	0.45	500
CIM 21J 182	0.9 $\pm$ 0.2	1800(at 70MHz)	0.45	500
CIM 21J 202	0.9 $\pm$ 0.2	2000(at 70MHz)	0.50	500
CIM 21J 222	0.9 $\pm$ 0.2	2200(at 70MHz)	0.70	300
CIM 21J 252	0.9 $\pm$ 0.2	2500(at 50MHz)	0.70	300
CIM 21K 152	0.9 $\pm$ 0.2	1500	0.45	300
CIM 21K 252	0.9 $\pm$ 0.2	2500	0.80	250
CIM 21N 700	0.9 $\pm$ 0.2	70	0.20	600
CIM 21N 121	0.9 $\pm$ 0.2	120	0.25	500
CIM 21N 241	0.9 $\pm$ 0.2	240	0.3	400

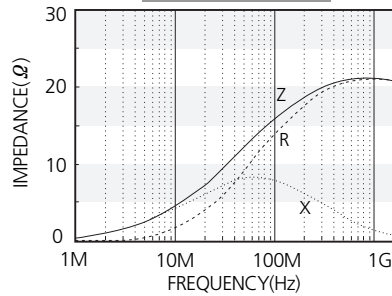
※Test equipment: Agilent E4991A + 16192A

Electrical Characteristics

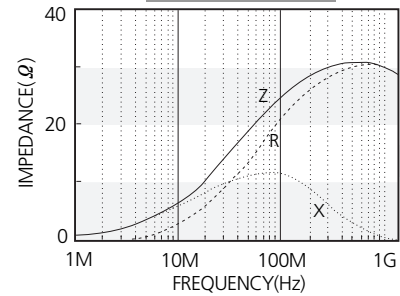
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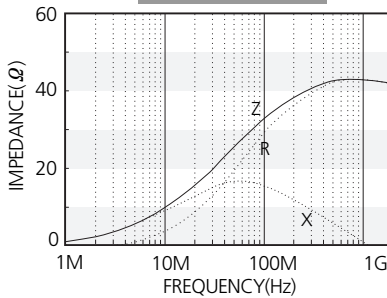
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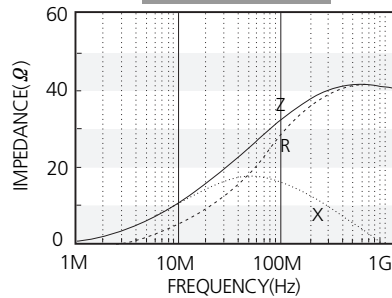
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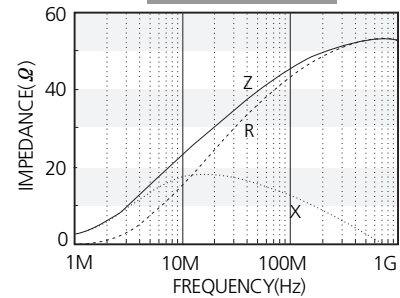
CIB21P300



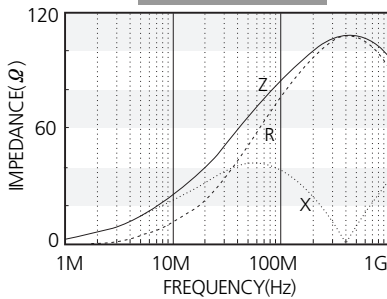
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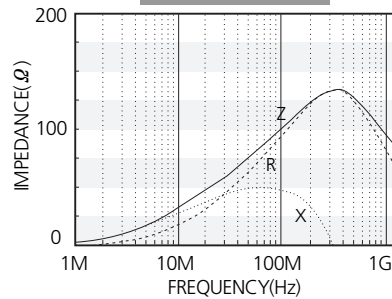
CIB21P470



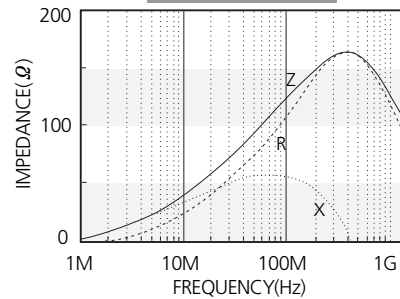
CIM21U800



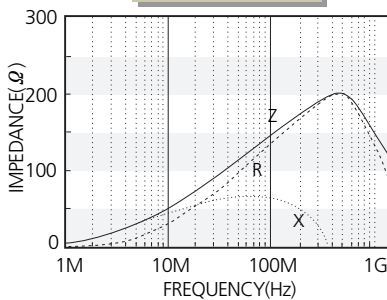
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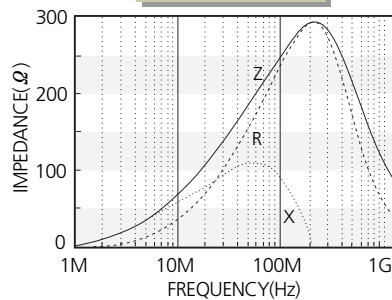
CIM21U121



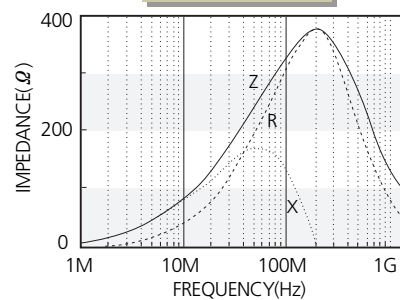
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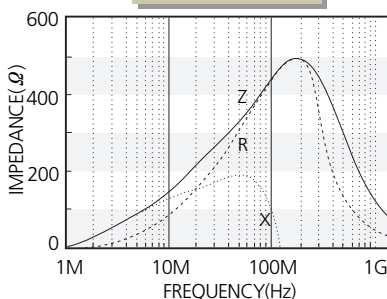
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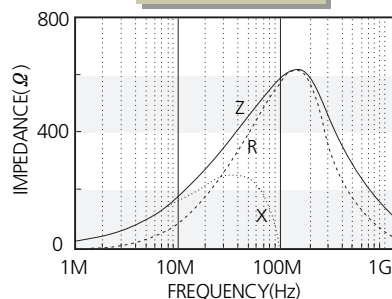
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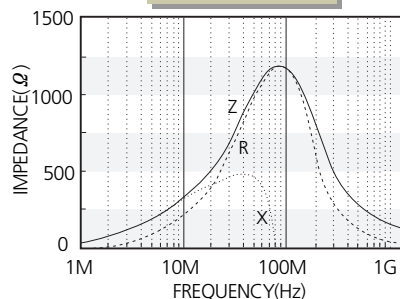
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CIM21U601

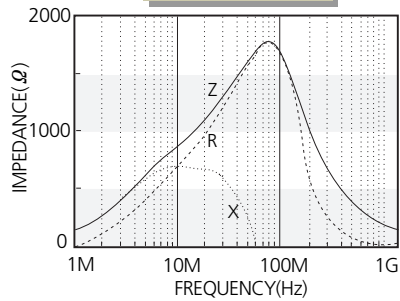


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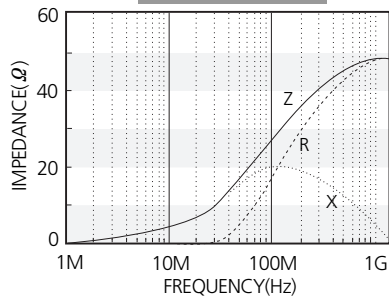


Electrical Characteristics

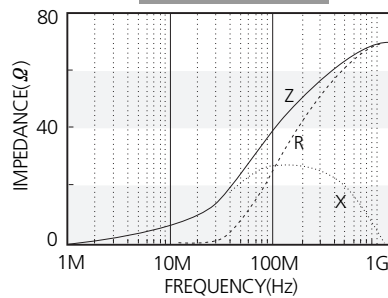
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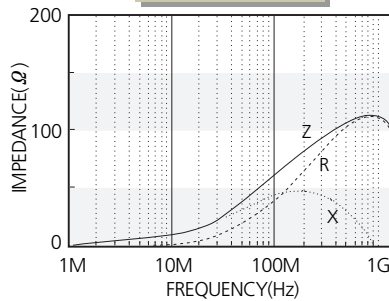
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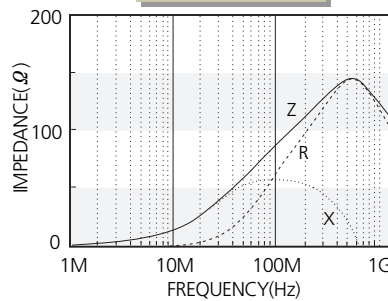
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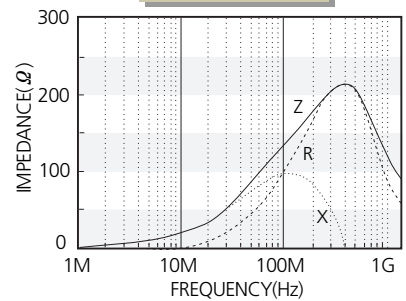
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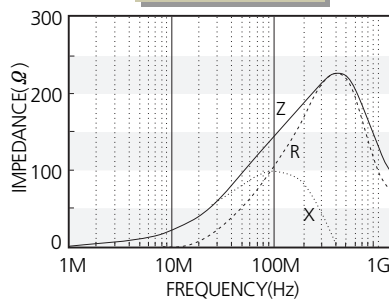
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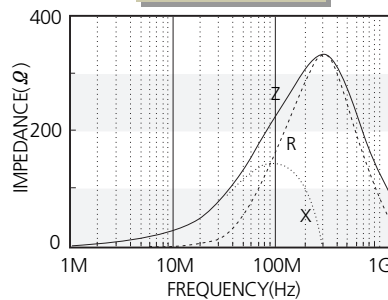
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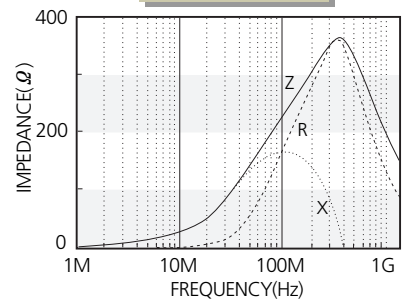
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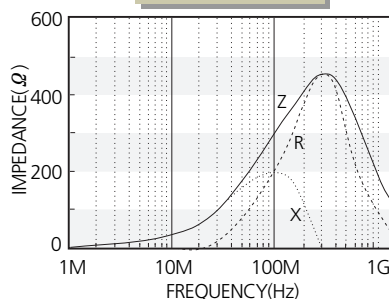
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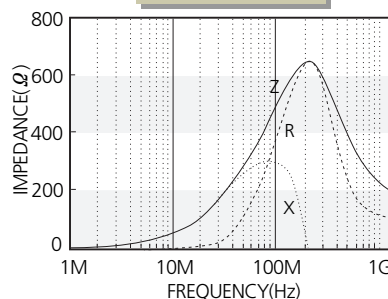
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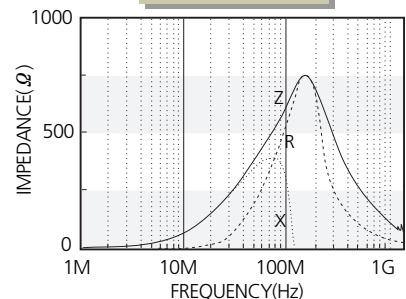
CIM21J301



CIM21J471

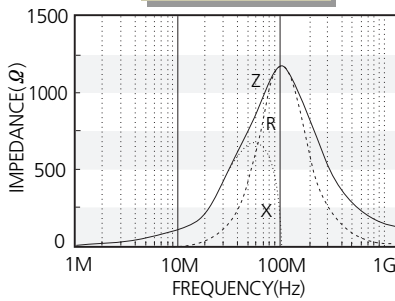


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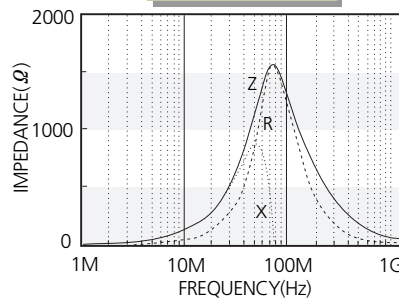


Electrical Characteristics

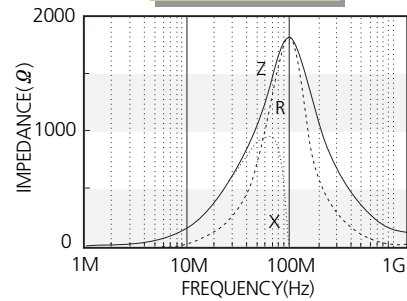
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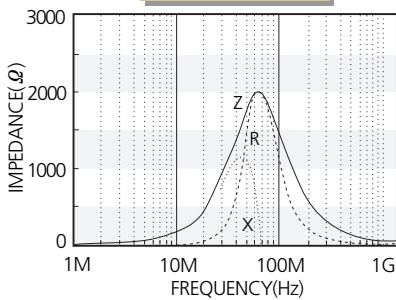
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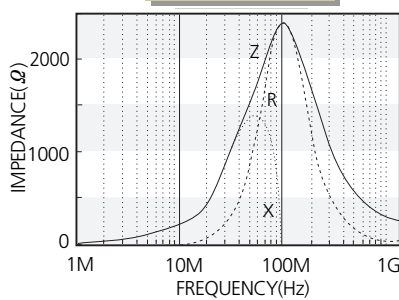
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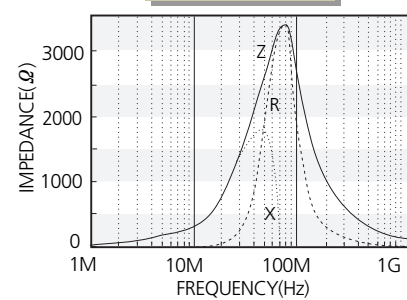
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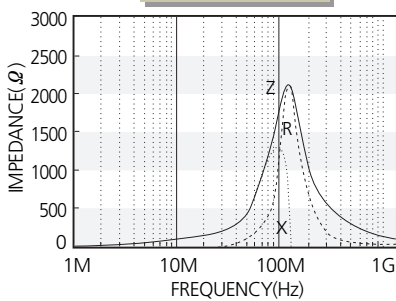
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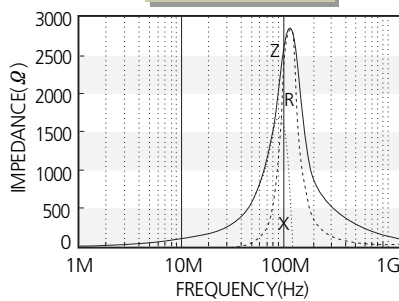
CIM21J252



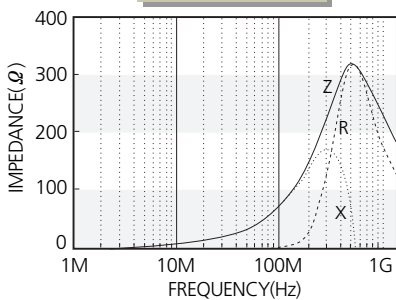
CIM21K152



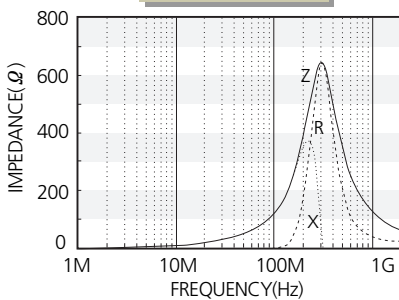
CIM21K252



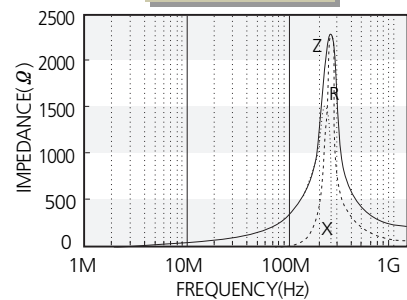
CIM21N700



CIM21N121



CIM21N241



CIB/CIM 3216(1206) Type

Part No.	Thickness (mm)	Impedance (Ω) $\pm 25\%$ @ 100 MHz	DC Resistance (Ω) Max.	Rated Current (mA) Max.
CIB 31P 260	1.1 ± 0.2	26	0.05	2000
CIB 31P 310	1.1 ± 0.2	31	0.05	2000
CIB 31P 500	1.1 ± 0.2	50	0.05	2000
CIB 31P 600	1.1 ± 0.2	60	0.05	1500
CIB 31P 700	1.1 ± 0.2	70	0.10	1500
CIM 31U 101	1.1 ± 0.2	100	0.15	500
CIM 31U 601	1.1 ± 0.2	600	0.30	400
CIM 31J 151	1.1 ± 0.2	150	0.20	600
CIM 31J 221	1.1 ± 0.2	220	0.20	600
CIM 31J 301	1.1 ± 0.2	300	0.25	600
CIM 31J 601	1.1 ± 0.2	600	0.30	600
CIM 31J 801	1.1 ± 0.2	800	0.40	500
CIM 31J 102	1.1 ± 0.2	1000	0.45	500
CIM 31J 152	1.1 ± 0.2	1500(at 70MHz)	0.55	300

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

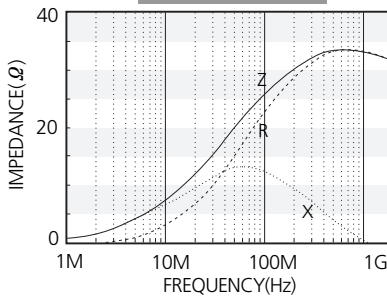
Part No.	Thickness (mm)	Impedance (Ω) $\pm 25\%$ @ 100 MHz	DC Resistance (Ω) Max.	Rated Current (mA) Max.
CIB 32P 310	1.3 ± 0.2	31	0.02	3000
CIB 32P 600	1.3 ± 0.2	60	0.02	1500
CIB 41P 800	1.6 ± 0.2	80	0.03	1000
CIB 41P 151	1.6 ± 0.2	150	0.05	1000

Customized products are available.

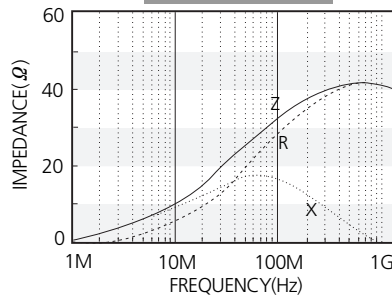
※ Test equipment: Agilent E4991A + 16192A

Electrical Characteristics

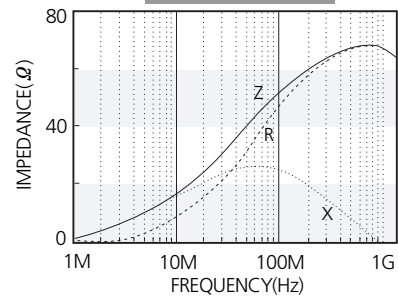
CIB31P260



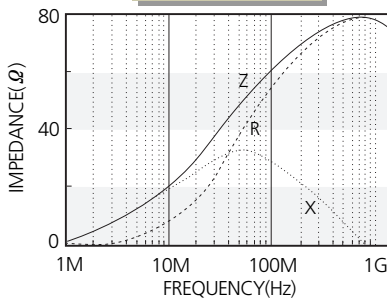
CIB31P310



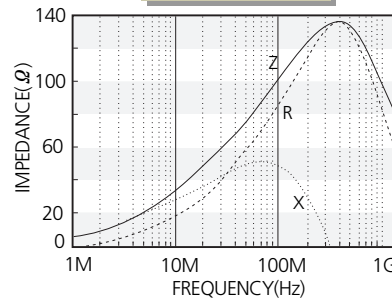
CIB31P500



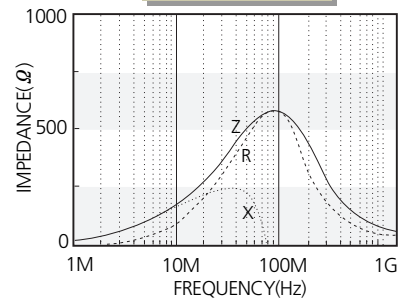
CIB31P700



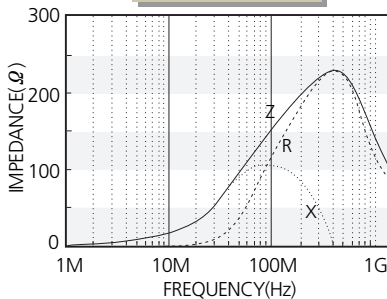
CIM31U101



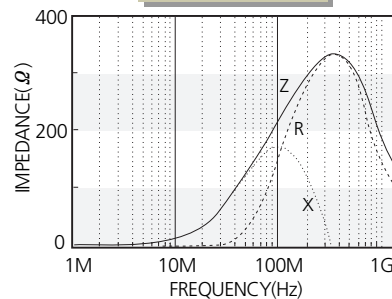
CIM31U601



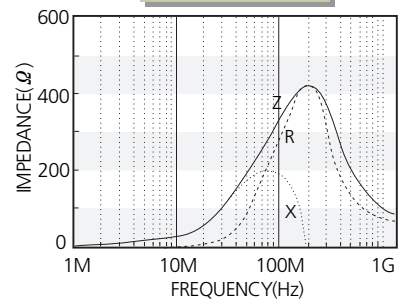
CIM31J151



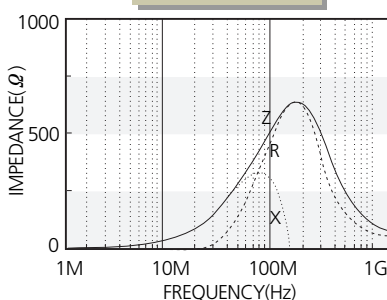
CIM31J221



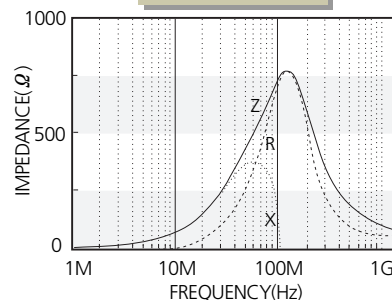
CIM31J301



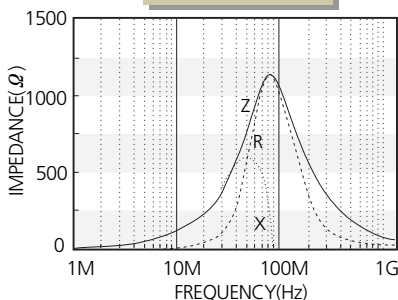
CIM31J601



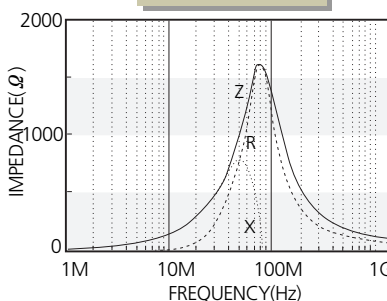
CIM31J801



CIM31J102

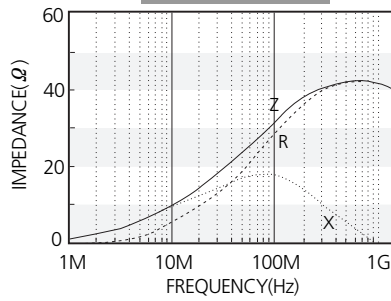


CIM31J152

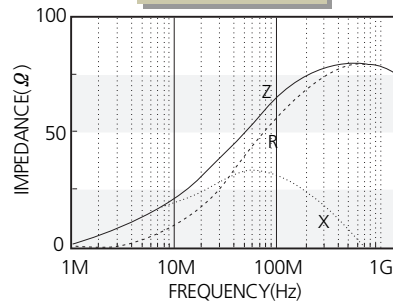


Electrical Characteristics

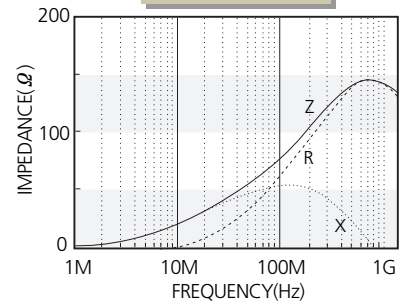
CIB32P310



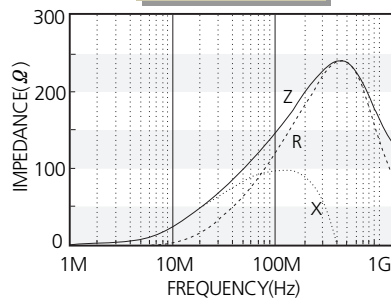
CIB32P600

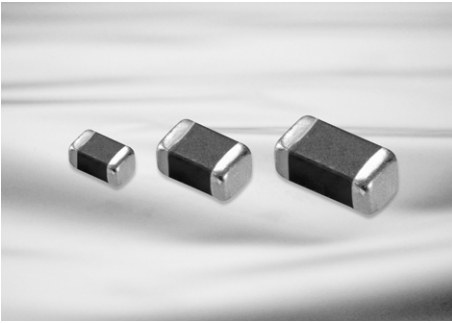


CIB41P800



CIB41P151





Feature

- The smallest beads used for high current.
(CIC: ~3A, CIS: ~6A)

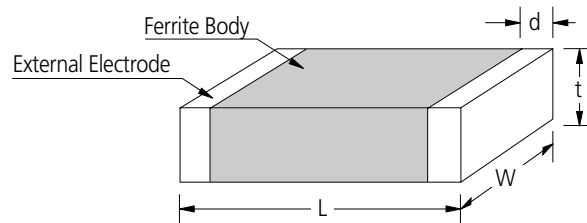
Application

- 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
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±0.2/1.2±0.2	0.5±0.3

Part Numbering

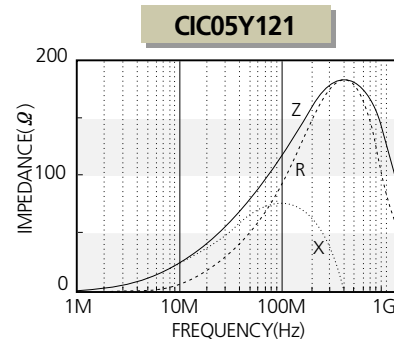
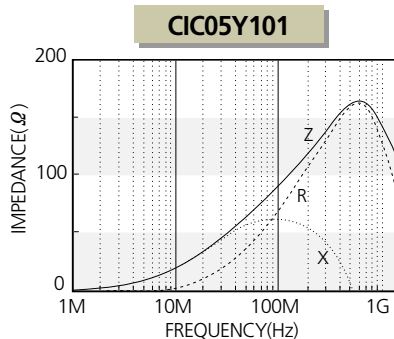
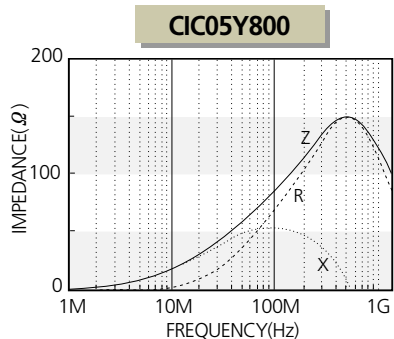
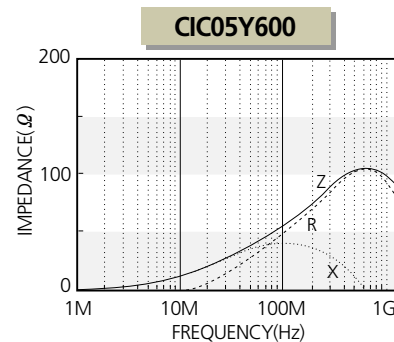
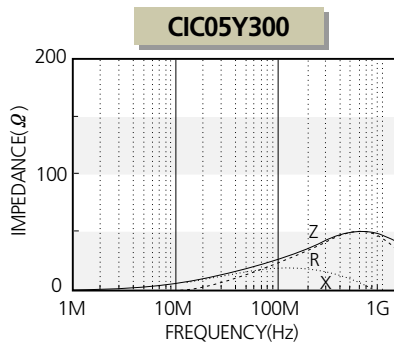
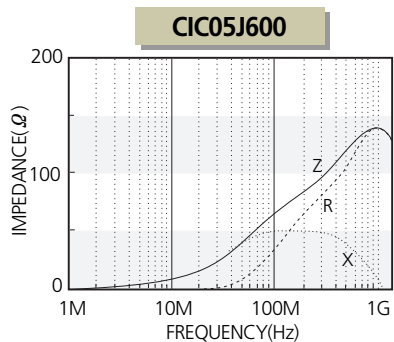
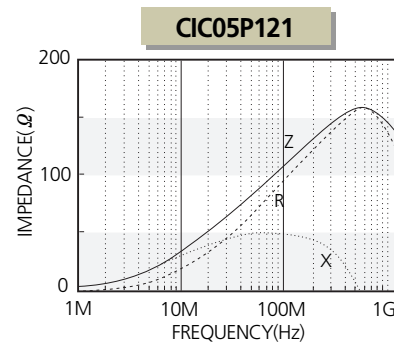
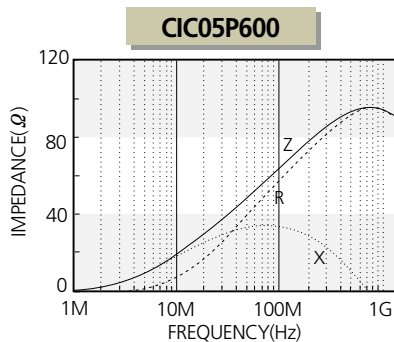
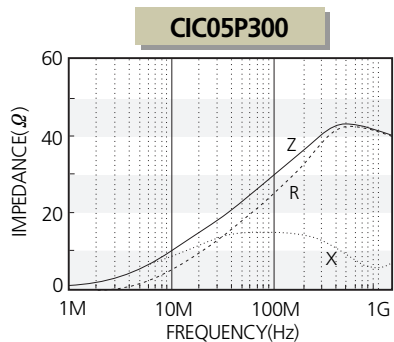
CI	C	05	P	300	N	C
(1)	(2)	(3)	(4)	(5)	(6)	(7)

- (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)

* Note : This catalog has only typical specifications because there is no space for detailed specifications. Please approve our product specifications or transact the approval sheet for product specifications before ordering.

CIC 1005(0402) Type

Part No.	Thickness (mm)	Impedance (Ω) $\pm 25\%$ @ 100 MHz	DC Resistance (Ω) Max.	Rated Current (mA) Max.
CIC 05P 300	0.50 ± 0.05	30	0.05	2200
CIC 05P 600	0.50 ± 0.05	60	0.09	1500
CIC 05P 121	0.50 ± 0.05	120	0.09	1500
CIC 05J 600	0.50 ± 0.05	60	0.09	1500
CIC05Y100	0.50 ± 0.05	10	0.035	2200
CIC05Y300	0.50 ± 0.05	30	0.035	2200
CIC05Y600	0.50 ± 0.05	60	0.06	1700
CIC05Y800	0.50 ± 0.05	80	0.07	1500
CIC05Y101	0.50 ± 0.05	100	0.07	1500
CIC05Y121	0.50 ± 0.05	120	0.09	1300



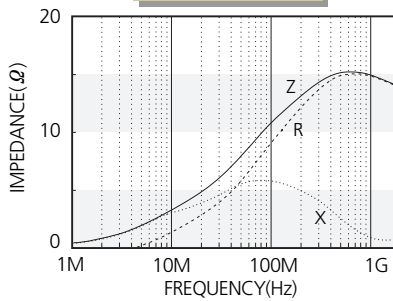
CIC 1608(0603) Type

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

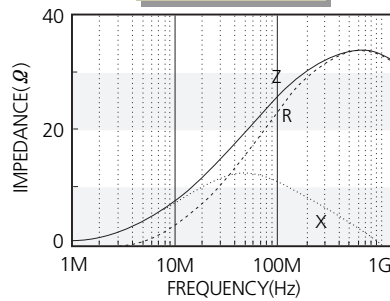
※ Test equipment: Agilent E4991A + 16192A

Electrical Characteristics

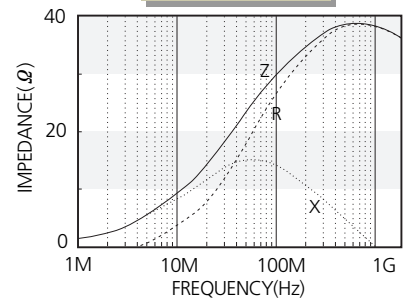
CIC10P080



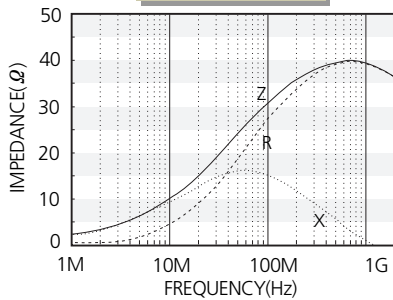
CIC10P220



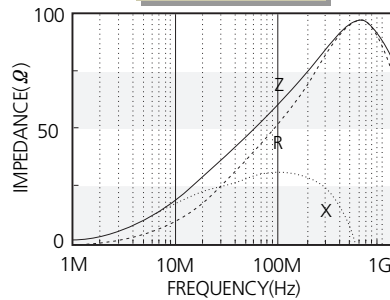
CIC10P300



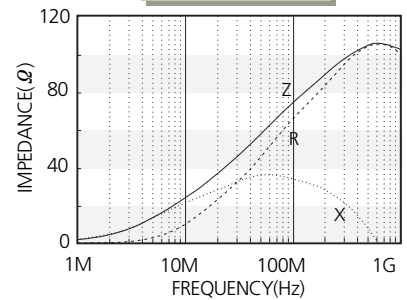
CIC10P330



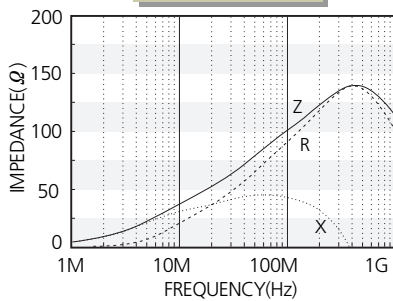
CIC10P600



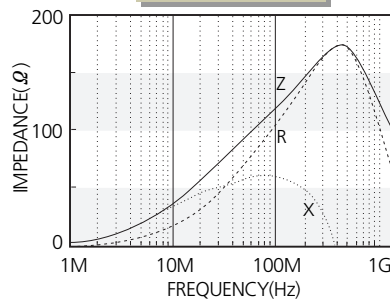
CIC10P800



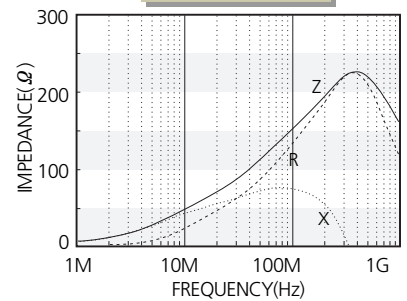
CIC10P101



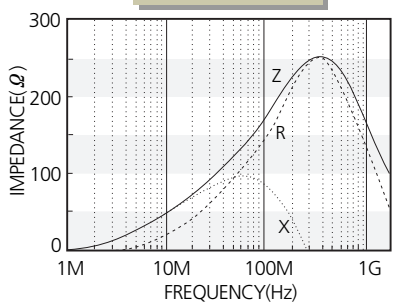
CIC10P121



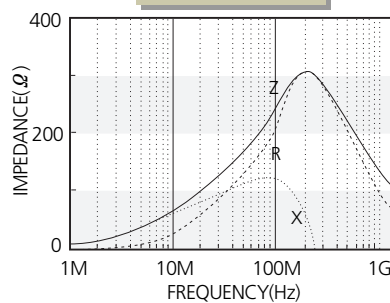
CIC10P151



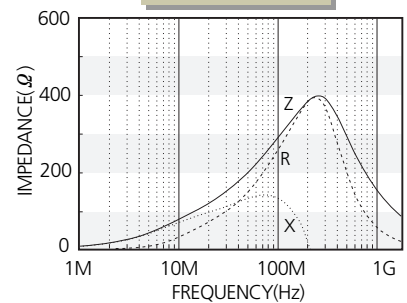
CIC10P181



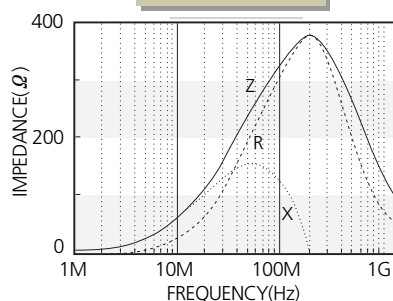
CIC10P221



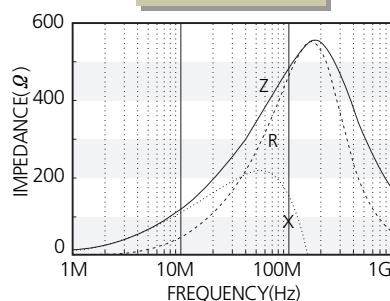
CIC10P301



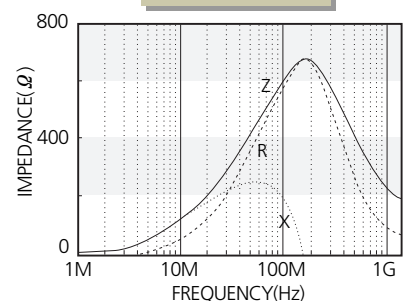
CIC10P331



CIC10P471

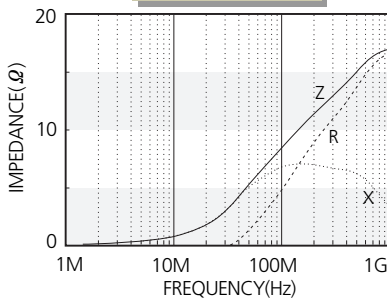


CIC10P601

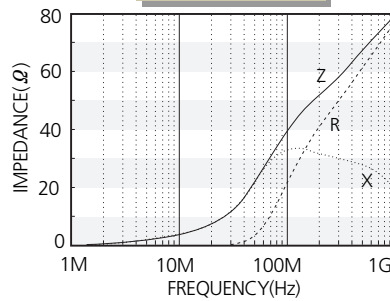


Electrical Characteristics

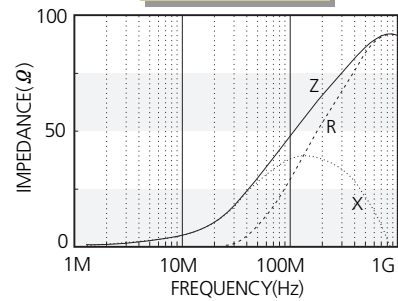
CIC10J080



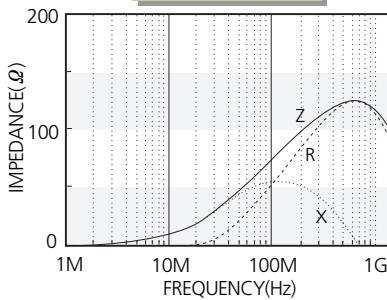
CIC10J300



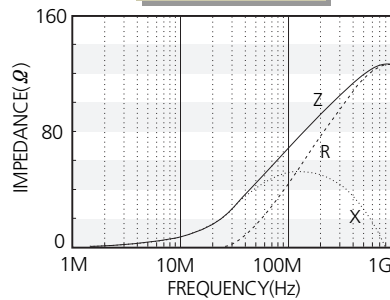
CIC10J470



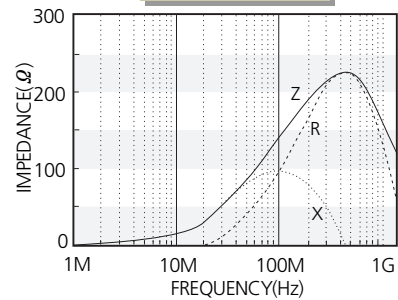
CIC10J600



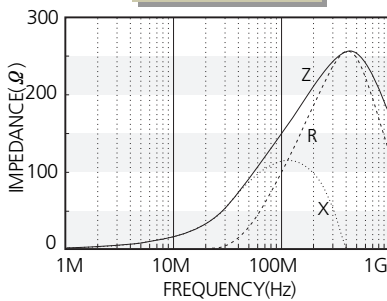
CIC10J800



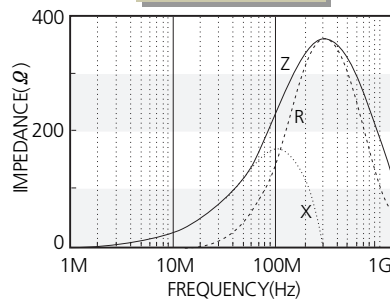
CIC10J121



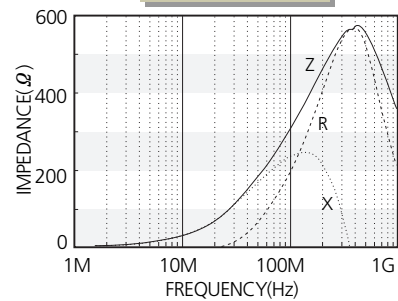
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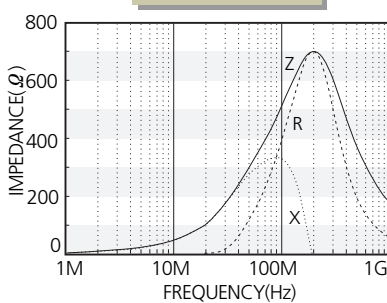
CIC10J221



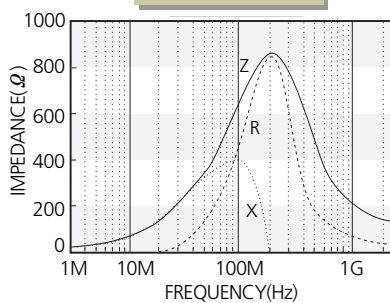
CIC10J301



CIC10J471



CIC10J601



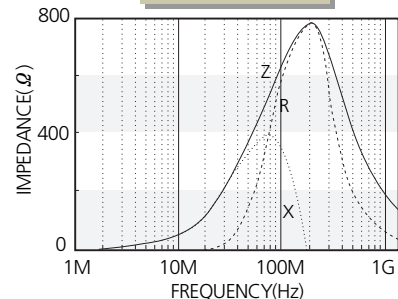
CIC 2012(0805) Type

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

※ Test equipment: Agilent E4991A + 16192A

CIC/CIS
Series

CIC21J601



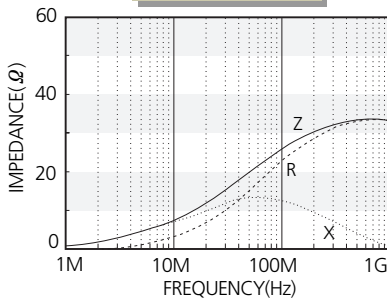
CIC 3216(1206) Type

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

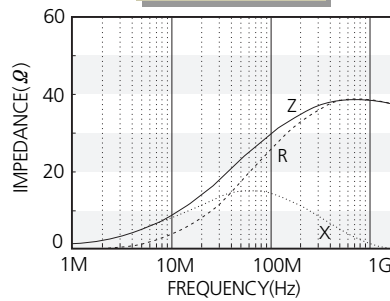
※ Test equipment: Agilent E4991A + 16192A

Electrical Characteristics

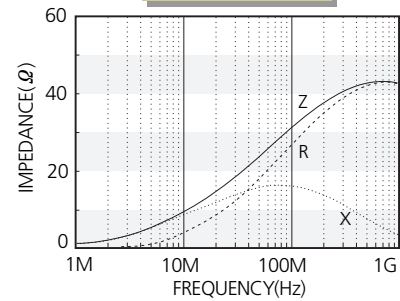
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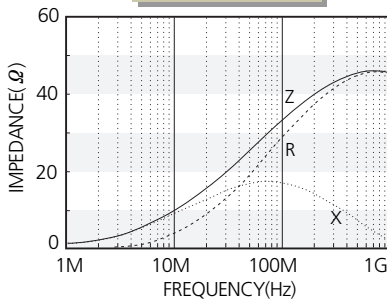
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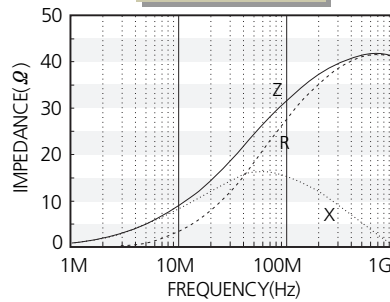
CIC31P310



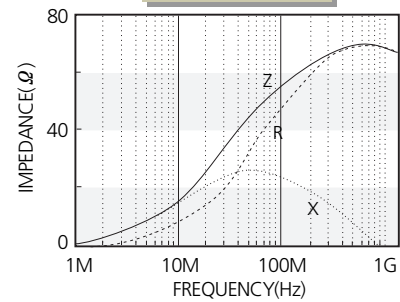
CIC31P330



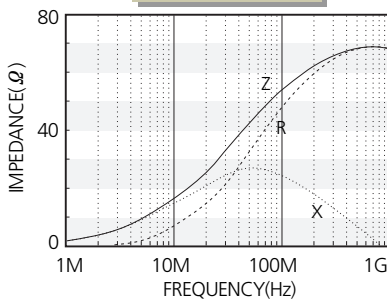
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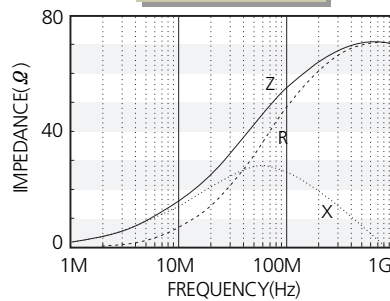
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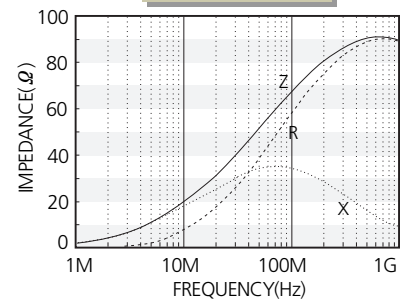
CIC31P520



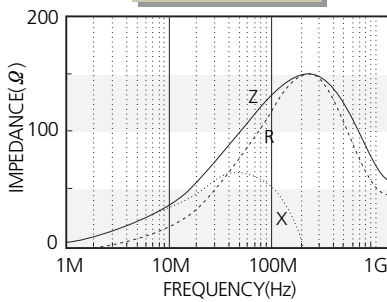
CIC31P600



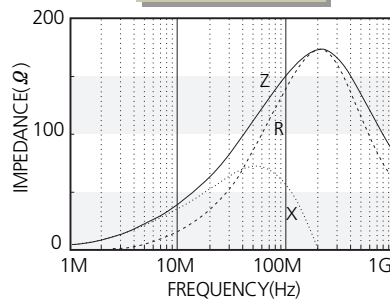
CIC31P680



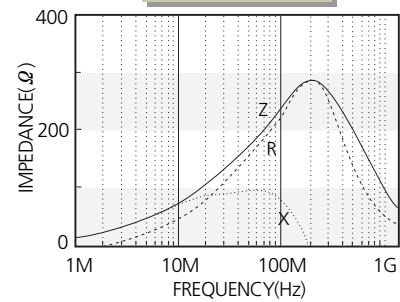
CIC31P121



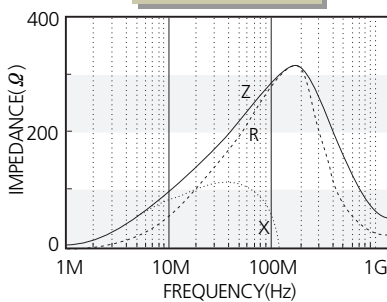
CIC31P151



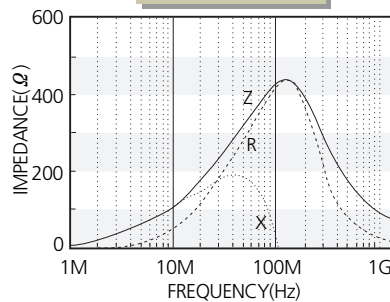
CIC31P221



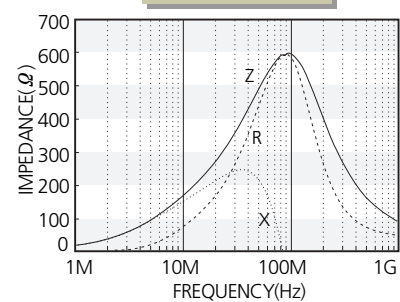
CIC31P301



CIC31P471

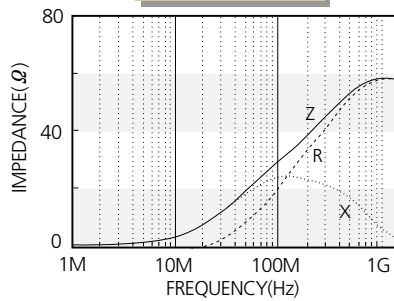


CIC31P601

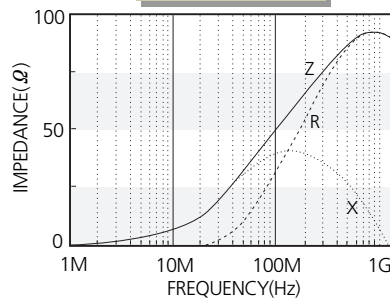


Electrical Characteristics

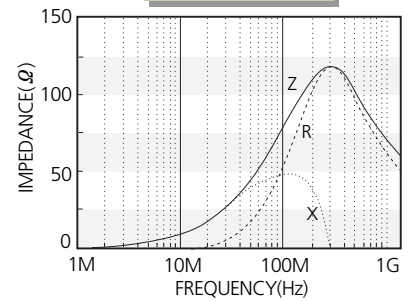
CIC31J300



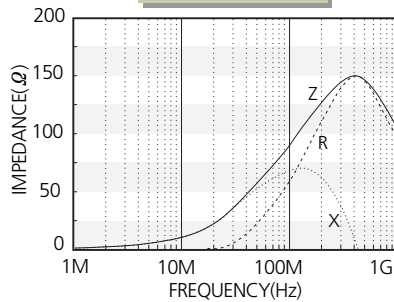
CIC31J500



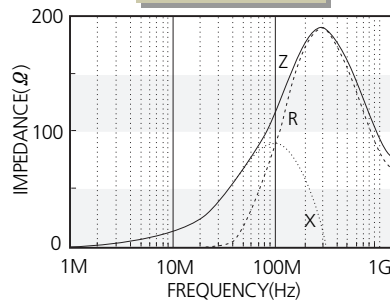
CIC31J800



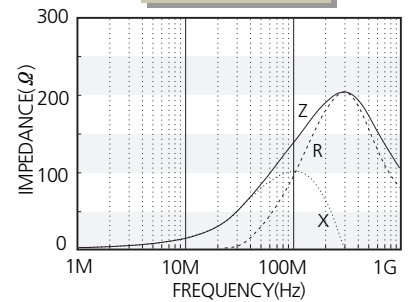
CIC31J900



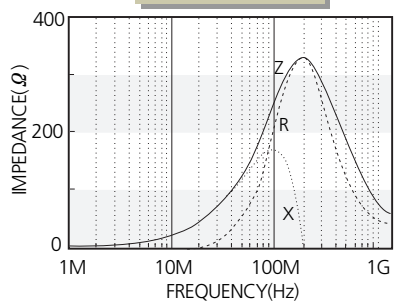
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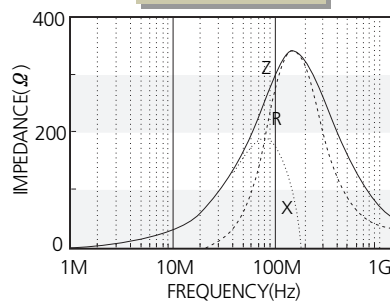
CIC31J151



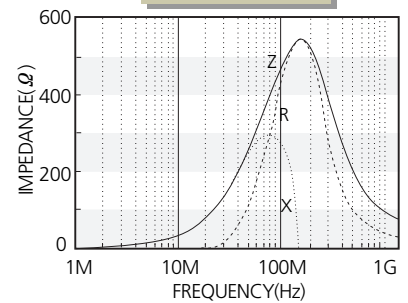
CIC31J241



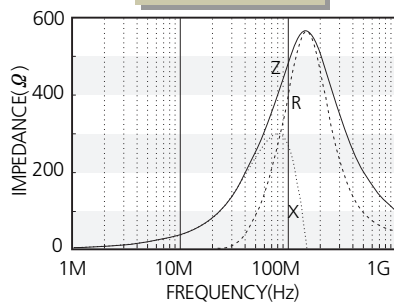
CIC31J301



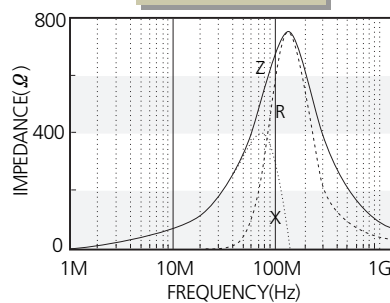
CIC31J471



CIC31J501



CIC31J601



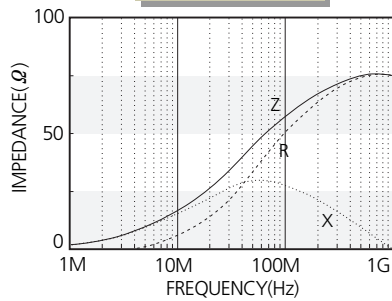
CIC 4516(1806) Type

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

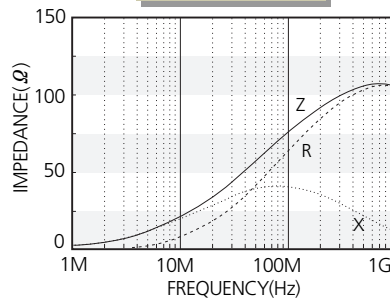
※ Test equipment: Agilent E4991A + 16192A

Electrical Characteristics

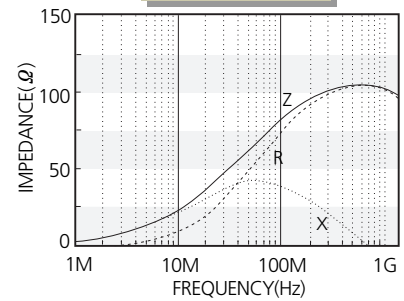
CIC41P600



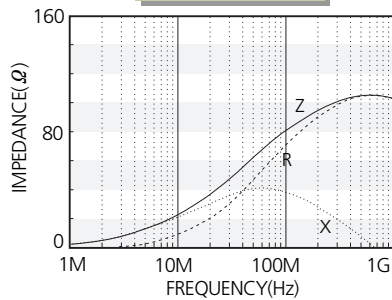
CIC41P750



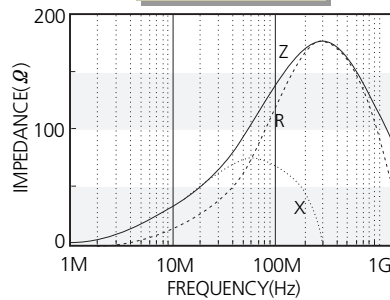
CIC41P800



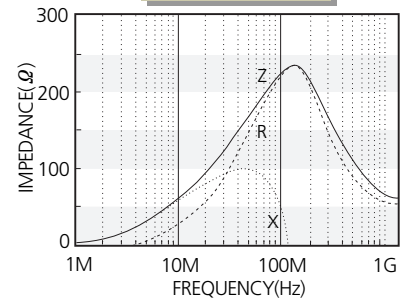
CIC41P910



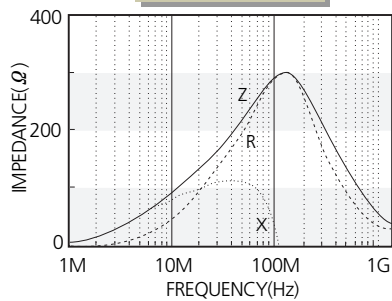
CIC41P121



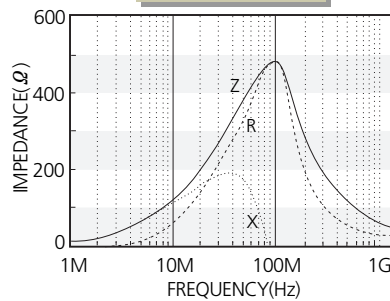
CIC41P221



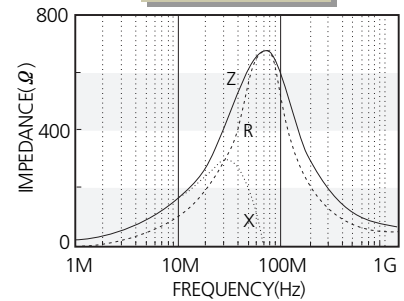
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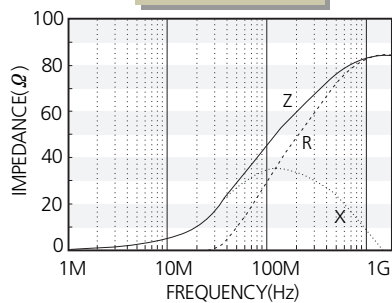
CIC41P471



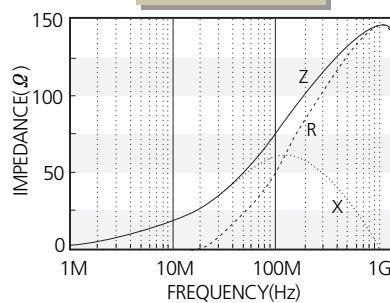
CIC41P601



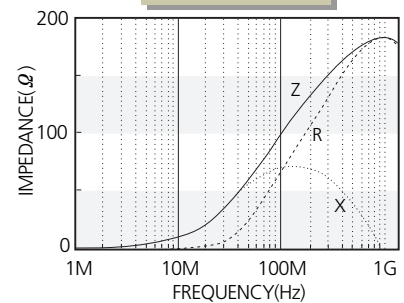
CIC41J400



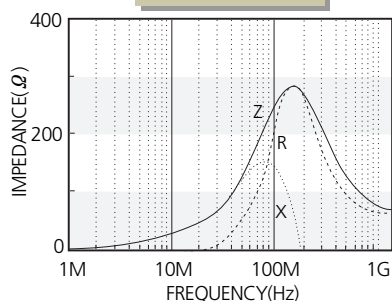
CIC41J800



CIC41J121

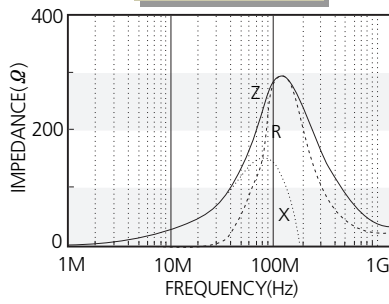


CIC41J221

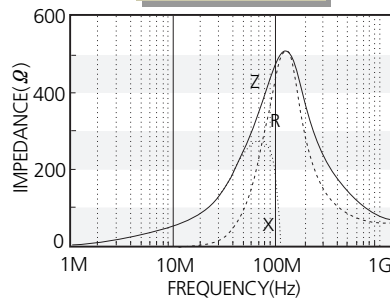


Electrical Characteristics

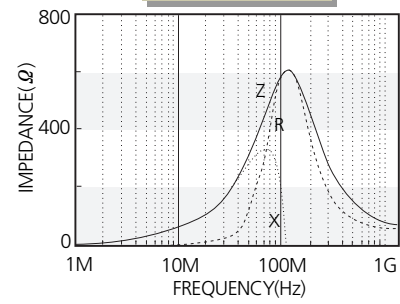
CIC41J301



CIC41J471

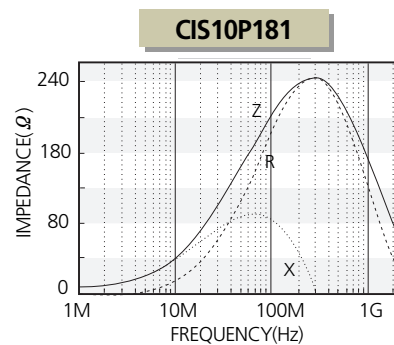
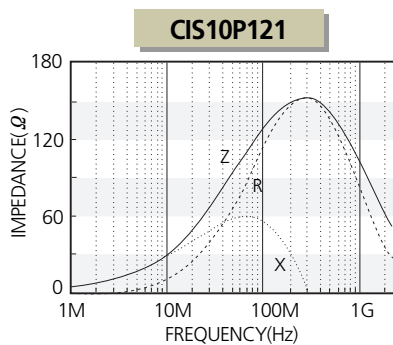
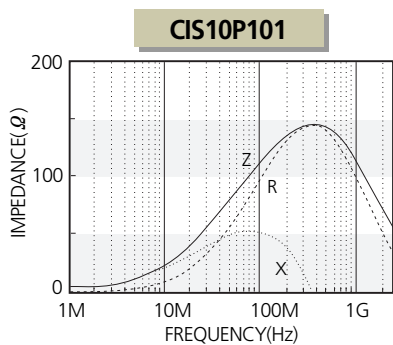
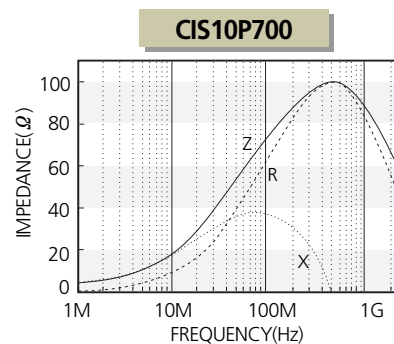
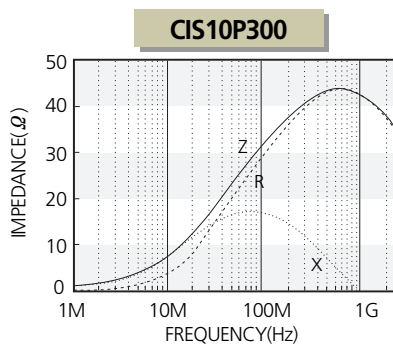
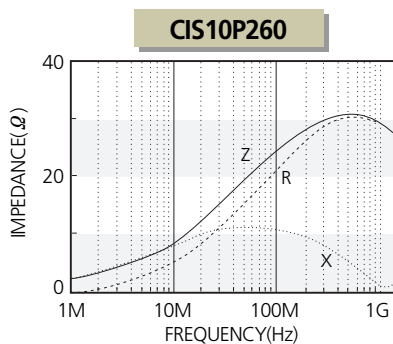


CIC41J601



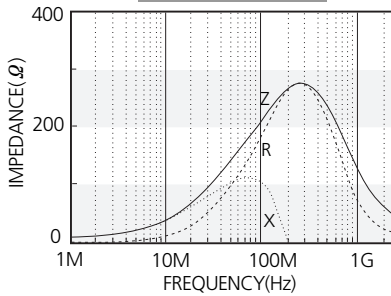
CIS Series

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

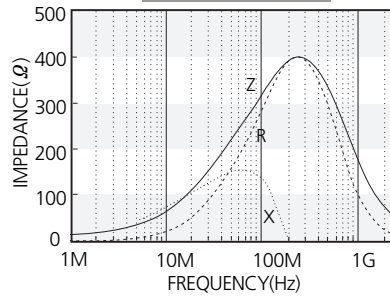


Electrical Characteristics

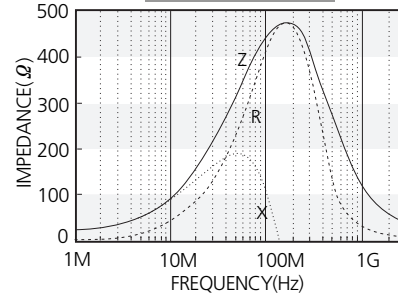
CIS10P221



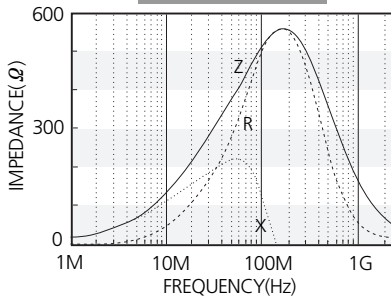
CIS10P331



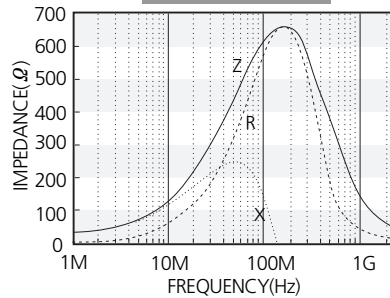
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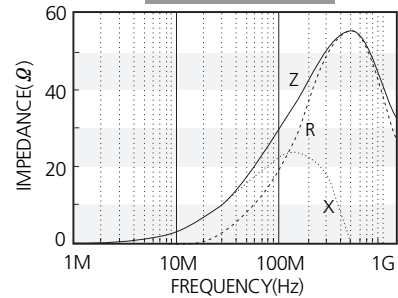
CIS10P471



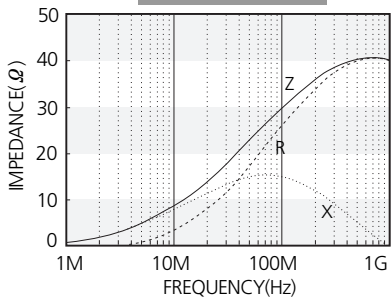
CIS10P601



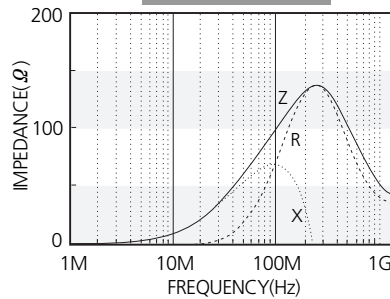
CIS10J300



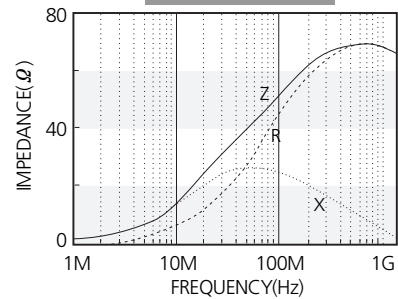
CIS21P300



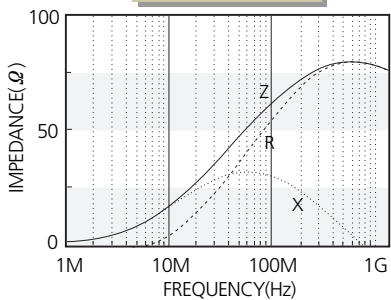
CIS21J121



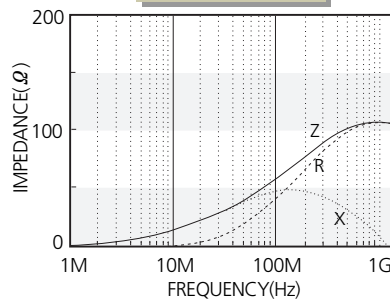
CIS32P520



CIS41P600

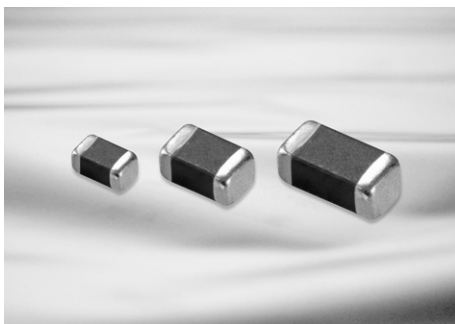


CIS41J600



CIV Series

GHz noise suppression



Feature

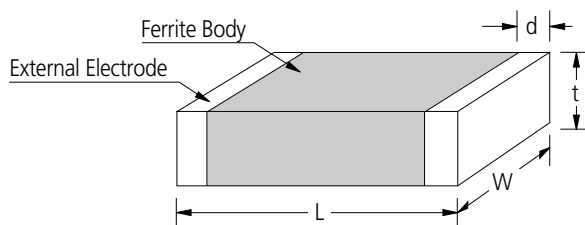
- CIV Series have high impedance in a GHz band and suppress GHz noise
- Small beads suitable for surface mounting
- Excellent solderability and high heat resistance for either flow or reflow soldering

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
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)

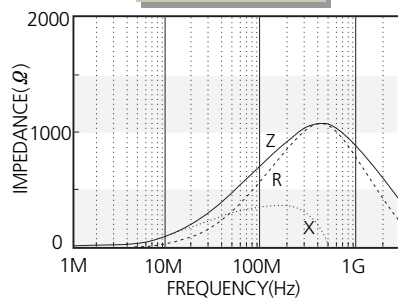
- (1) Chip Beads
- (2) V: For GHz Noise Suppression
- (3) Dimension
- (4) Material Code (U, I)
- (5) Nominal impedance (601:600 Ω 102:1000 Ω,)
- (6) Thickness option (N: Standard, A: Thinner than standard, B: Thicker than standard)
- (7) Packaging (C: paper tape, E: embossed tape)

* Note : This catalog has only typical specifications because there is no space for detailed specifications. Please approve our product specifications or transact the approval sheet for product specifications before ordering.

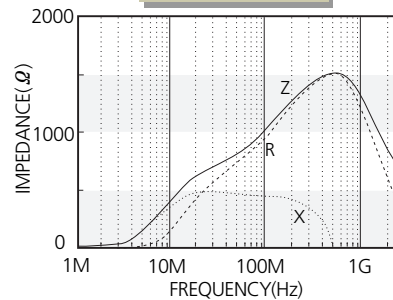
CIV 1005(0402)Type

Part No.	Thickness (mm)	Impedance (Ω) $\pm 25\%$ @ 100 MHz	Impedance (Ω) $\pm 40\%$ @ 1 GHz	DC Resistance (Ω) Max.	Rated Current (mA) Max.
CIV05U601	0.5 ± 0.05	600	1000	0.7	300
CIV05U102	0.5 ± 0.05	1000	1400	1.1	250
CIV05J102	0.5 ± 0.05	1000	2000	1.25	250
CIV05J182	0.5 ± 0.05	1800	2700	2.20	200

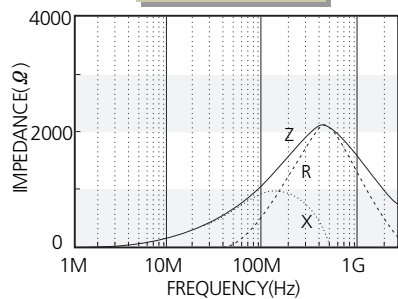
CIV05U601NC



CIV05U102NC



CIV05J102NC



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