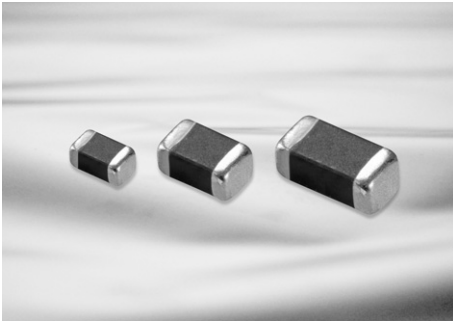


# Chip Bead ; CIC/CIS Series For High Current



## Feature

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

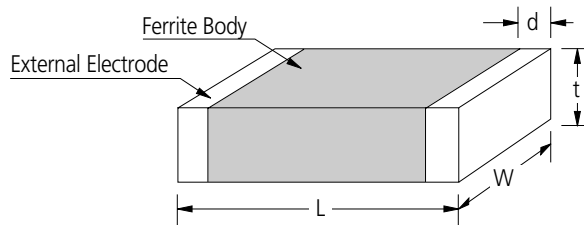
## Application

- 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	-10~+40°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	0.3±0.2
21	2.0±0.2	1.25±0.2	0.9±0.2	0.5+0.2,-0.3
31	3.2±0.2	1.6±0.2	1.1±0.2	0.5+0.2,-0.3
32	3.2±0.2	2.5±0.2	1.3±0.2	0.5±0.3
41	4.5±0.2	1.6±0.2	1.6±0.2/1.2±0.2	0.5±0.3
43	4.5±0.2	3.2±0.2	1.5±0.2	0.5±0.3

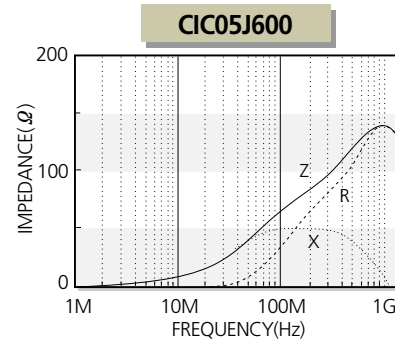
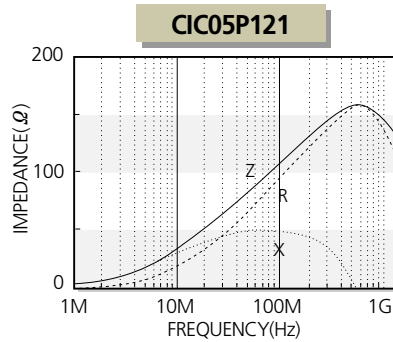
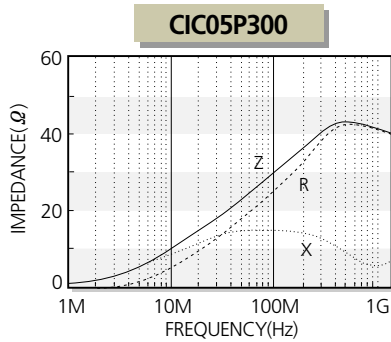
## Part Numbering

**CI**   **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)

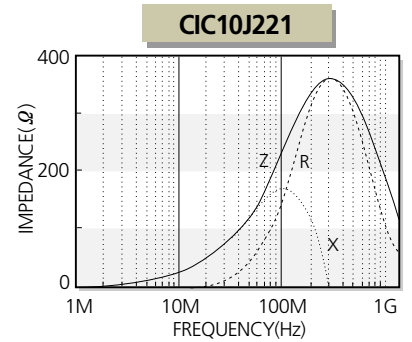
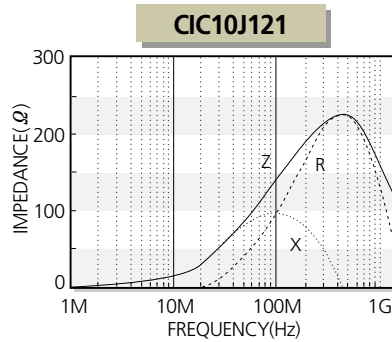
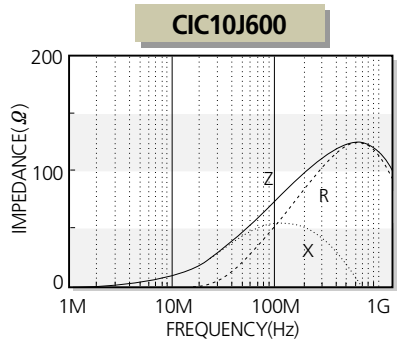
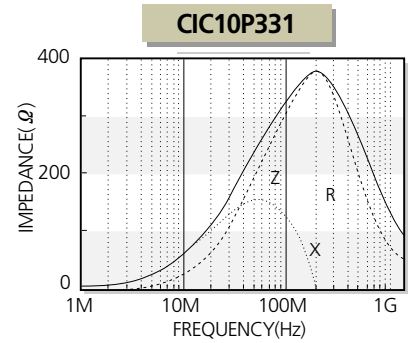
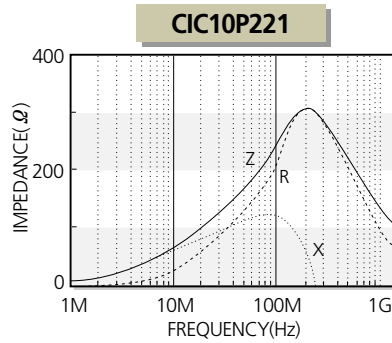
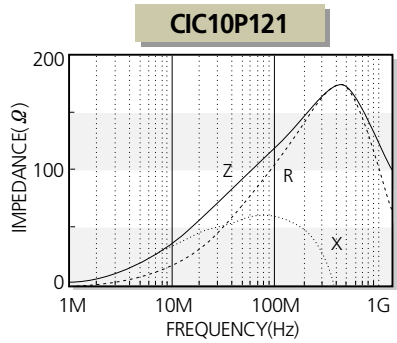
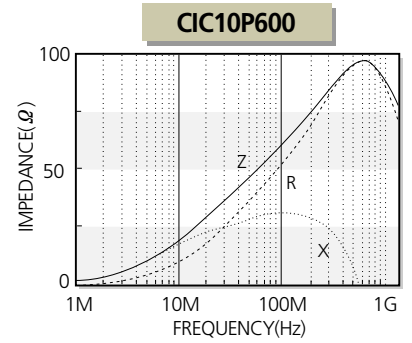
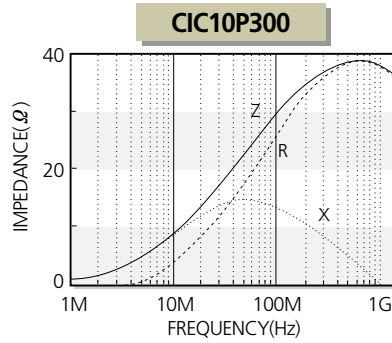
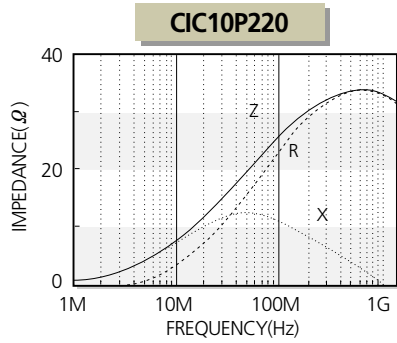
### CIC 1005(0402) Type

Part No.	Thickness (mm)	Impedance ( $\Omega$ ) $\pm 25\%$ @ 100 MHz	DC Resistance ( $\Omega$ ) Max.	Rated Current (mA) Max.
CIC 05P 300	0.50 $\pm$ 0.05	30	0.05	1500
CIC 05P 600	0.50 $\pm$ 0.05	60	0.09	1500
CIC 05P 121	0.50 $\pm$ 0.05	120	0.09	1500
CIC 05J 600	0.50 $\pm$ 0.05	60	0.09	1500

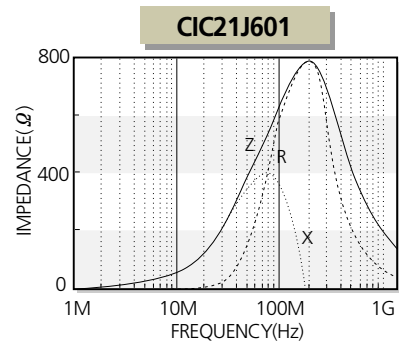
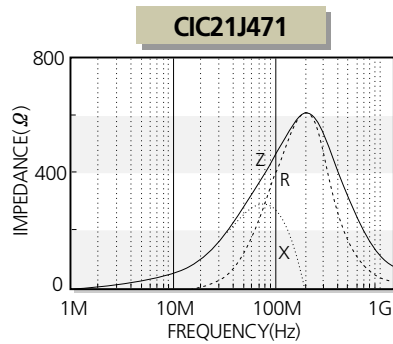
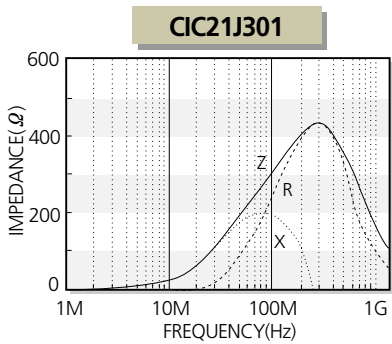
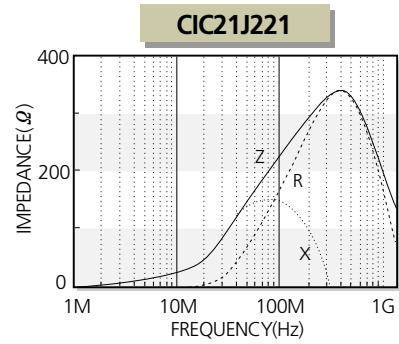
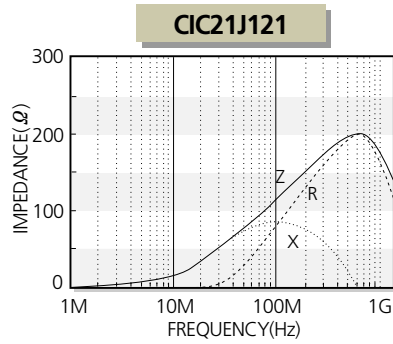
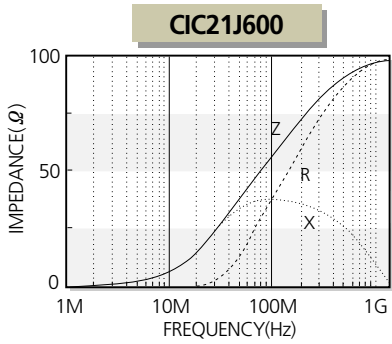
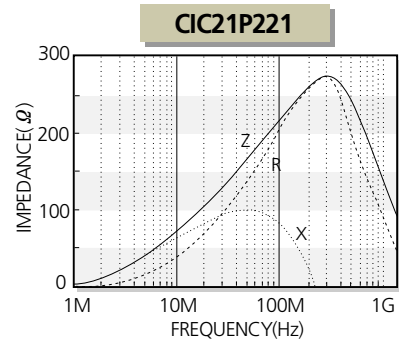
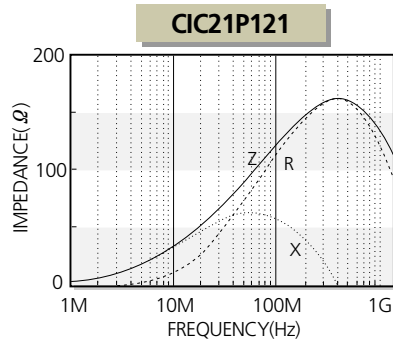
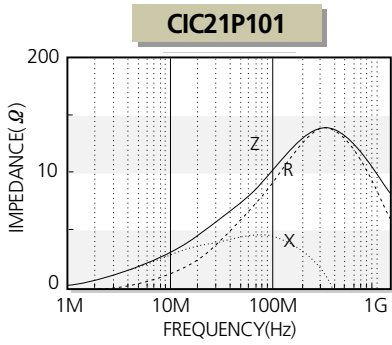
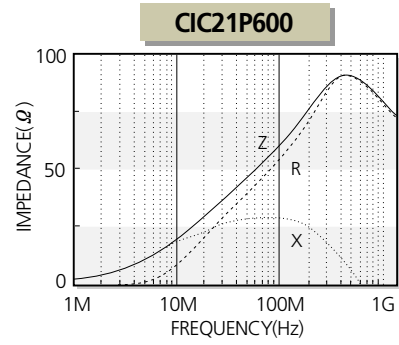
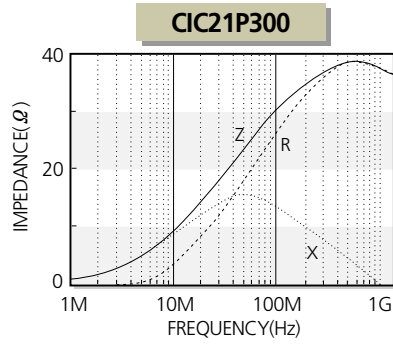
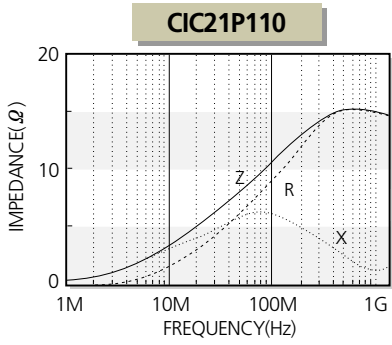


### CIC 1608(0603) Type

Part No.	Thickness (mm)	Impedance ( $\Omega$ ) $\pm 25\%$ @ 100 MHz	DC Resistance ( $\Omega$ ) Max.	Rated Current (mA) Max.
CIC 10P 080	0.80 $\pm$ 0.15	8	0.02	3000
CIC 10P 220	0.80 $\pm$ 0.15	22	0.025	3000
CIC 10P 300	0.80 $\pm$ 0.15	30	0.025	3000
CIC 10P 600	0.80 $\pm$ 0.15	60	0.05	2000
CIC 10P 121	0.80 $\pm$ 0.15	120	0.05	2000
CIC 10P 181	0.80 $\pm$ 0.15	180	0.09	1500
CIC 10P 221	0.80 $\pm$ 0.15	220	0.09	1000
CIC 10P 301	0.80 $\pm$ 0.15	300	0.15	750
CIC 10P 331	0.80 $\pm$ 0.15	330	0.15	1200
CIC 10J 080	0.80 $\pm$ 0.15	8	0.02	3000
CIC 10J 300	0.80 $\pm$ 0.15	30	0.03	2000
CIC 10J 600	0.80 $\pm$ 0.15	60	0.05	2000
CIC 10J 121	0.80 $\pm$ 0.15	120	0.05	2000
CIC 10J 221	0.80 $\pm$ 0.15	220	0.10	1500
CIC 10J 301	0.80 $\pm$ 0.15	300	0.15	800
CIC 10J 471	0.80 $\pm$ 0.15	470	0.15	800
CIC 10J 601	0.80 $\pm$ 0.15	600	0.15	750

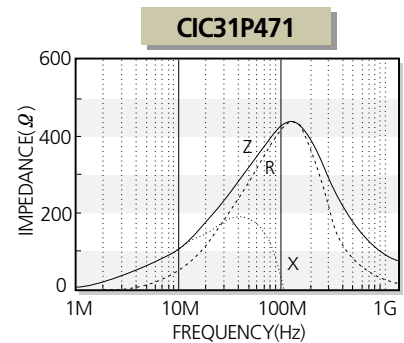
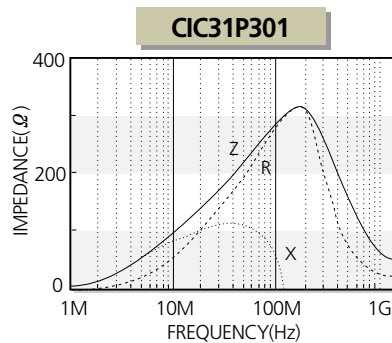
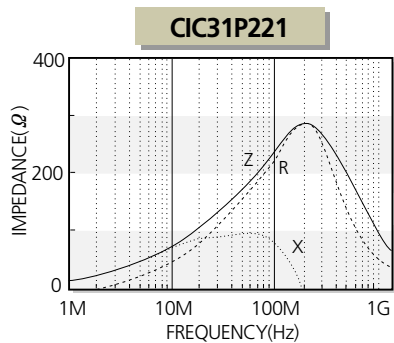
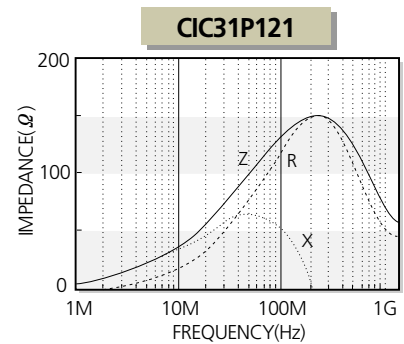
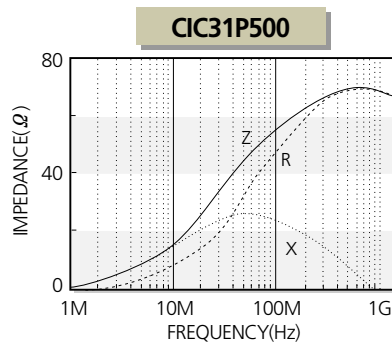
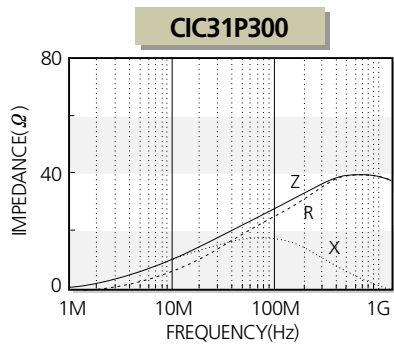

**CIC 2012(0805) Type**

Part No.	Thickness (mm)	Impedance ( $\Omega$ ) $\pm 25\%$ @ 100 MHz	DC Resistance ( $\Omega$ ) Max.	Rated Current (mA) Max.
CIC 21P 110	0.90 $\pm$ 0.2	11	0.01	3000
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 101	0.90 $\pm$ 0.2	100	0.04	2000
CIC 21P 121	0.90 $\pm$ 0.2	120	0.05	2000
CIC 21P 221	0.90 $\pm$ 0.2	220	0.05	2000
CIC 21J 600	0.90 $\pm$ 0.2	60	0.03	2500
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

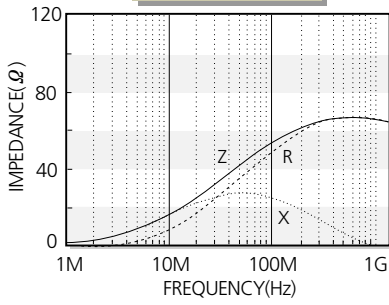


**CIC 3216(1206) Type**

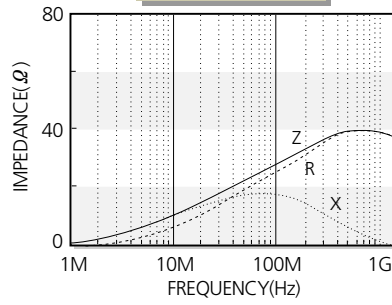
Part No.	Thickness (mm)	Impedance ( $\Omega$ ) $\pm 25\%$ @ 100 MHz	DC Resistance ( $\Omega$ ) Max.	Rated Current (mA) Max.
CIC 31P 300	1.1 $\pm$ 0.2	30	0.01	3000
CIC 31P 500	1.1 $\pm$ 0.2	50	0.025	3000
CIC 31P 700	1.1 $\pm$ 0.2	70	0.025	3000
CIC 31P 121	1.1 $\pm$ 0.2	120	0.025	2000
CIC 31P 221	1.1 $\pm$ 0.2	220	0.05	2000
CIC 31P 301	1.1 $\pm$ 0.2	300	0.05	2000
CIC 31P 471	1.1 $\pm$ 0.2	470	0.07	1500
CIC 31P 601	1.1 $\pm$ 0.2	600	0.15	1000
CIC 31J 300	1.1 $\pm$ 0.2	30	0.02	4000
CIC 31J 500	1.1 $\pm$ 0.2	50	0.02	4000
CIC 31J 800	1.1 $\pm$ 0.2	80	0.02	4000
CIC 31J 121	1.1 $\pm$ 0.2	120	0.03	4000
CIC 31J 241	1.1 $\pm$ 0.2	240	0.05	3000
CIC 31J 301	1.1 $\pm$ 0.2	300	0.05	3000
CIC 31J 471	1.1 $\pm$ 0.2	470	0.05	3000
CIC 31J 601	1.1 $\pm$ 0.2	600	0.05	2500



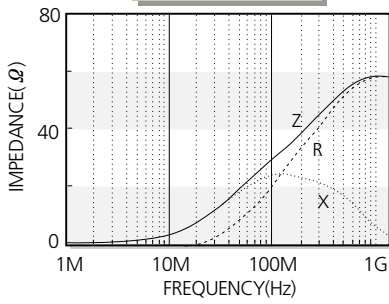
**CIC31P500**



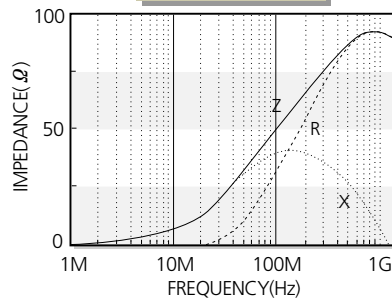
**CIC31P601**



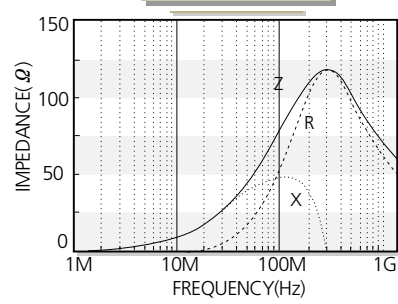
**CIC31J300**



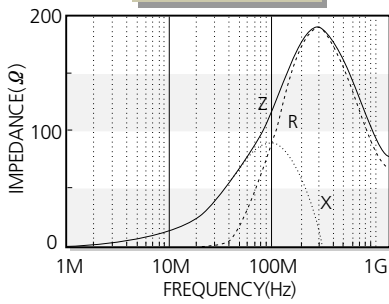
**CIC31J500**



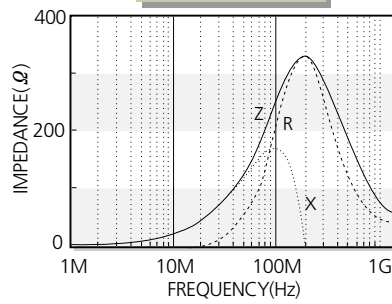
**CIC31J800**



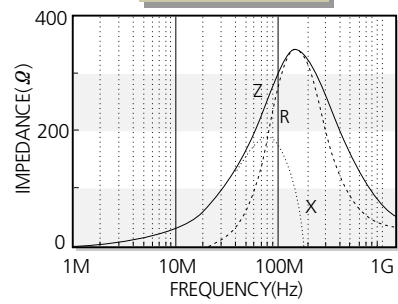
**CIC31J121**



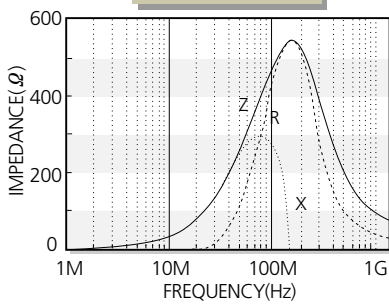
**CIC31J241**



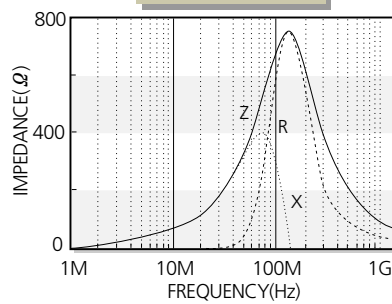
**CIC31J301**



**CIC31J471**

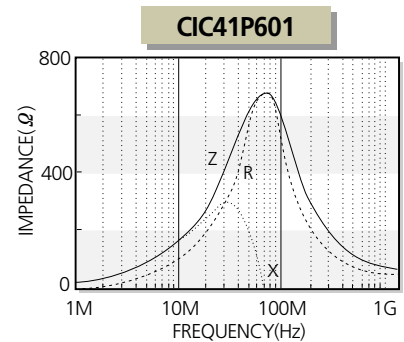
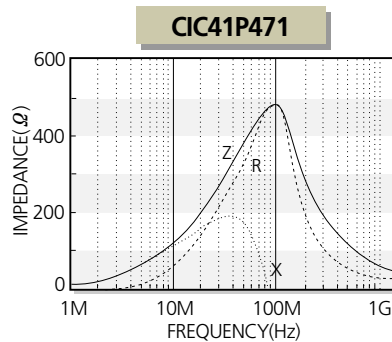
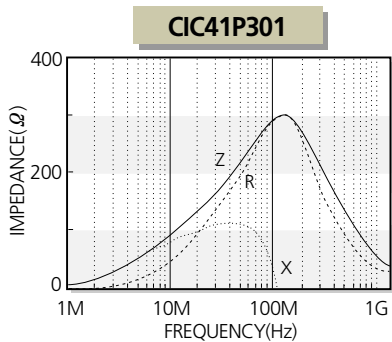
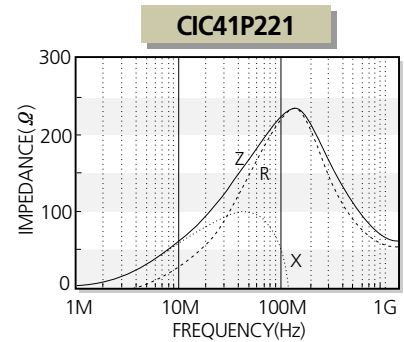
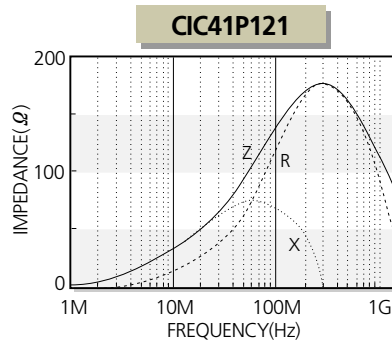
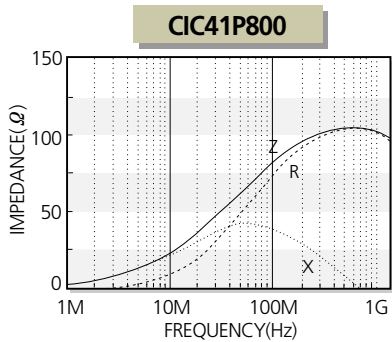


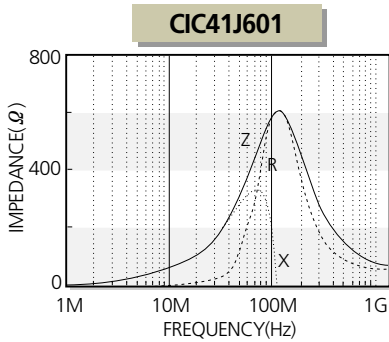
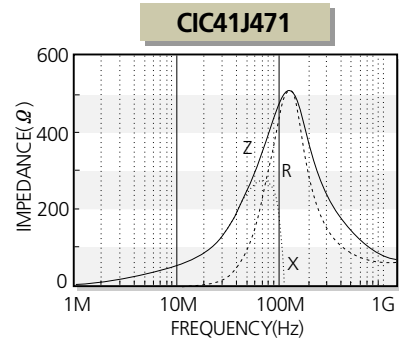
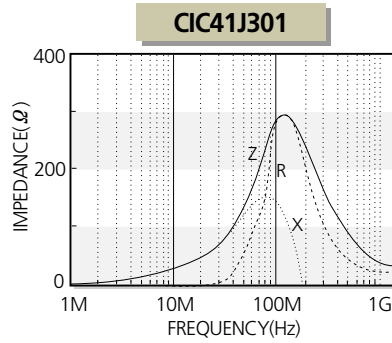
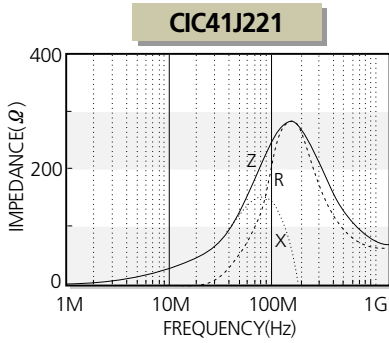
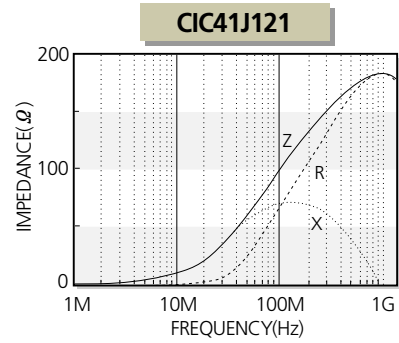
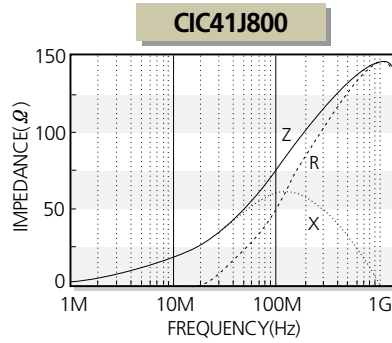
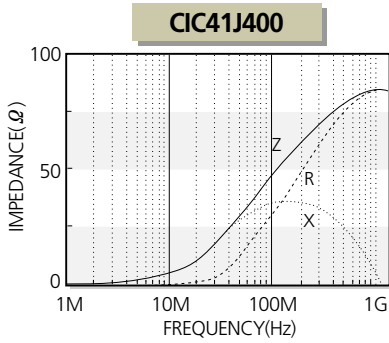
**CIC31J601**



**CIC 4516(1806) Type**

Part No.	Thickness (mm)	Impedance ( $\Omega$ ) $\pm 25\%$ @ 100 MHz	DC Resistance ( $\Omega$ ) Max.	Rated Current (mA) Max.
CIC 41P 800	1.6 $\pm$ 0.2	80	0.01	3000
CIC 41P 121	1.6 $\pm$ 0.2	120	0.025	3000
CIC 41P 221	1.6 $\pm$ 0.2	220	0.05	2000
CIC 41P 301	1.6 $\pm$ 0.2	300	0.05	2000
CIC 41P 471	1.6 $\pm$ 0.2	470	0.05	2000
CIC 41P 601	1.6 $\pm$ 0.2	600	0.08	1500
CIC 41J 400	1.6 $\pm$ 0.2	40	0.01	3000
CIC 41J 800	1.6 $\pm$ 0.2	80	0.01	3000
CIC 41J 121	1.6 $\pm$ 0.2	120	0.03	3000
CIC 41J 221	1.6 $\pm$ 0.2	220	0.04	2500
CIC 41J 301	1.6 $\pm$ 0.2	300	0.04	2500
CIC 41J 471	1.6 $\pm$ 0.2	470	0.04	2500
CIC 41J 601	1.6 $\pm$ 0.2	600	0.04	2500



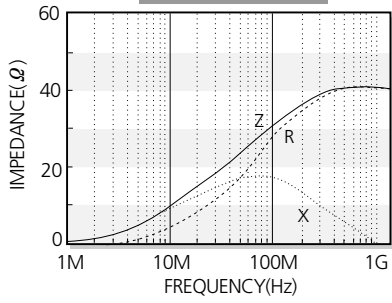


**CIC 4532(1812) Type**

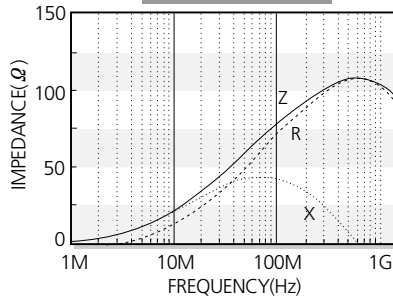
Part No.	Thickness (mm)	Impedance (Ω) ±25% @ 100 MHz	DC Resistance (Ω) Max.	Rated Current (mA) Max.
CIC 43P 300	1.5±0.2	30	0.03	3000
CIC 43P 700	1.5±0.2	70	0.03	3000
CIC 43P 121	1.5±0.2	120	0.03	3000
CIC 43P 221	1.5±0.2	220	0.05	2000
CIC 43P 301	1.5±0.2	300	0.05	2000
CIC 43P 471	1.5±0.2	470	0.05	2000
CIC 43P 601	1.5±0.2	600(at 50MHz)	0.05	3000
CIC 43J 300	1.5±0.2	30	0.02	3000
CIC 43J 121	1.5±0.2	120	0.03	3000
CIC 43J 301	1.5±0.2	300	0.04	3000
CIC 43J 471	1.5±0.2	470	0.04	3000
CIC 43J 601	1.5±0.2	600	0.04	3000



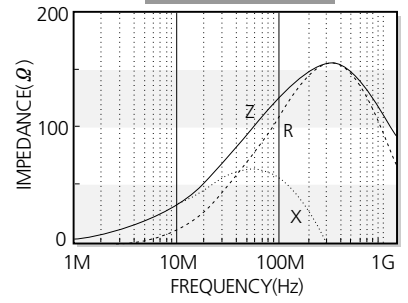
**CIC43P300**



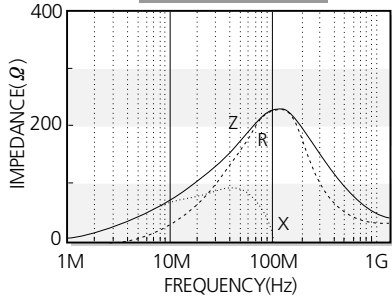
**CIC43P700**



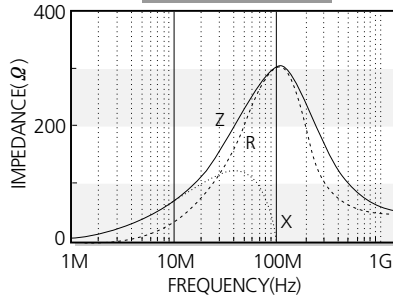
**CIC43P121**



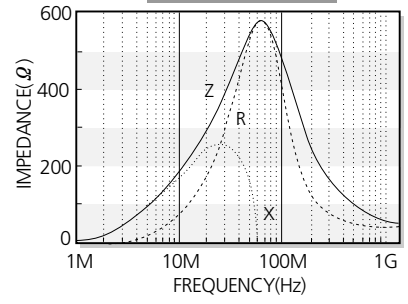
**CIC43P221**



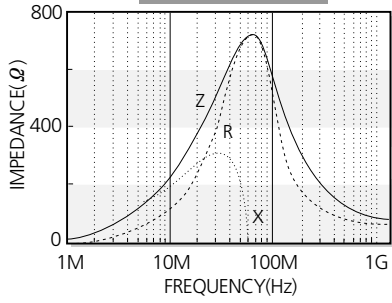
**CIC43P301**



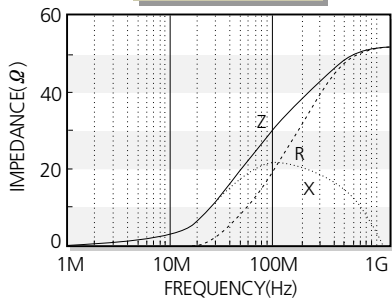
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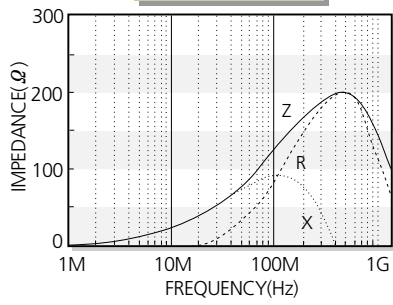
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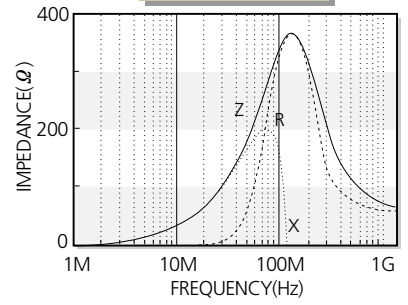
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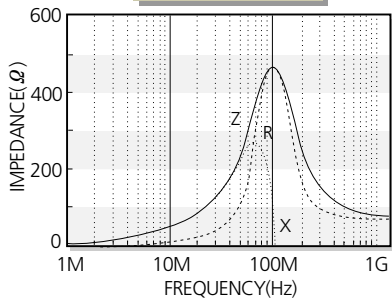
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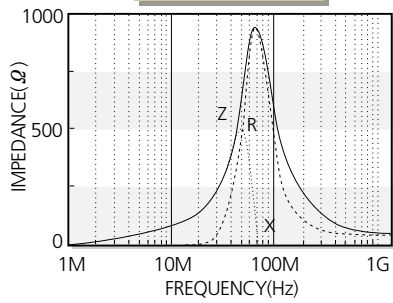
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**CIC43J471**



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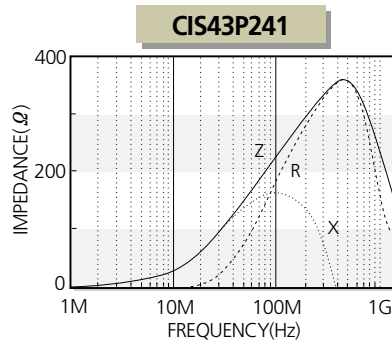
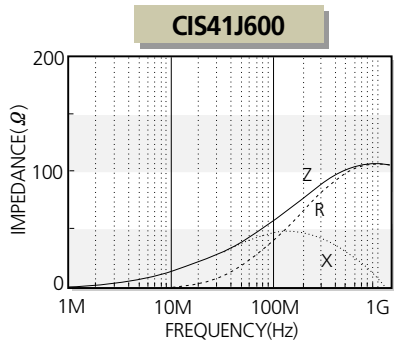
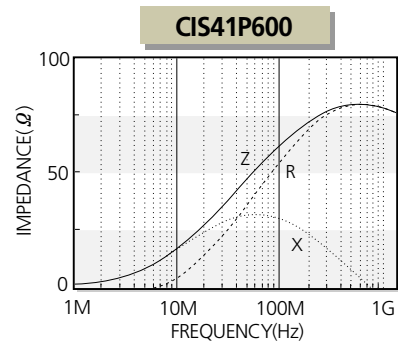
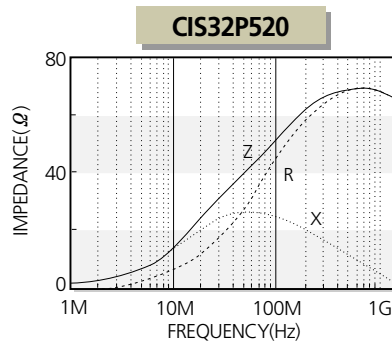
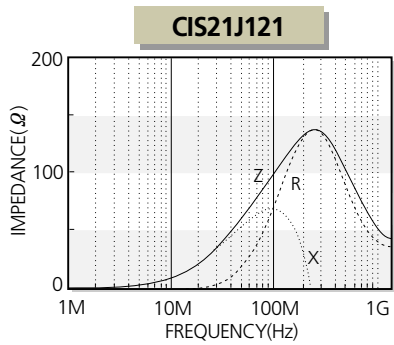
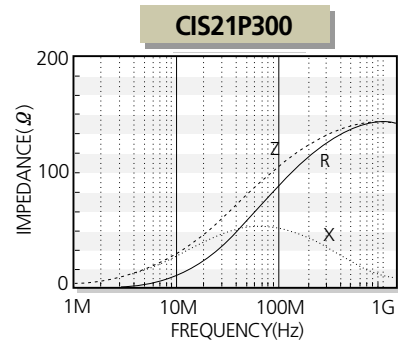
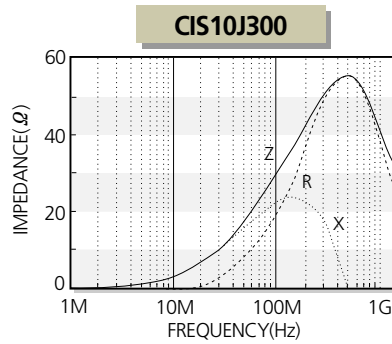
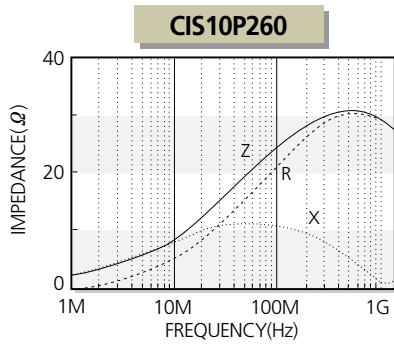
CIS Series

Part No.	Thickness (mm)	Impedance ( $\Omega$ ) $\pm 25\%$ @ 100 MHz	DC Resistance ( $\Omega$ ) Max.	Rated Current (mA) Max.
CIS 10P 260	0.6 $\pm$ 0.15	26	0.007	6000
CIS 10J 300	0.8 $\pm$ 0.15	30	0.01	6000
CIS 21P 300	0.9 $\pm$ 0.2	30	0.01	5000
CIS 21J 121	0.9 $\pm$ 0.2	120	0.02	5000
CIS 32P 520	1.3 $\pm$ 0.2	52	0.01	6000
CIS 32J 121	1.3 $\pm$ 0.2	120	0.02	5000
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
CIS 43J 121	1.5 $\pm$ 0.2	120	0.02	6000
CIS 43P 241	1.5 $\pm$ 0.2	240	0.02	6000

Customized products are available.

Test equipment : Agilent 4291B+16192A (1005)

Agilent 4291B+16193A (1608 and others)



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