

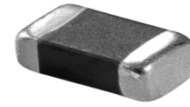


**THE DATASHEET OF  
CIC31P500NE**



# Chip Bead For High Current

## CIC31 Series (3216/ EIA 1206)



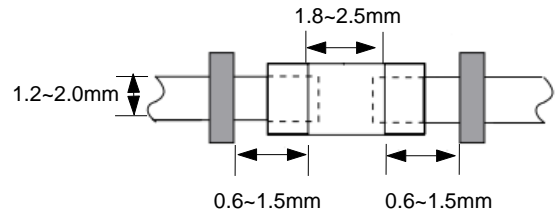
### APPLICATION

Noise Suppression in power line

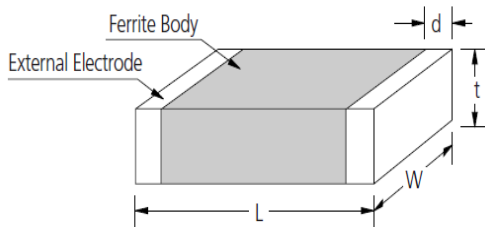
### FEATURES

- CIC series is used for high current. (~ 3A)

### RECOMMENDED LAND PATTERN



### DIMENSION



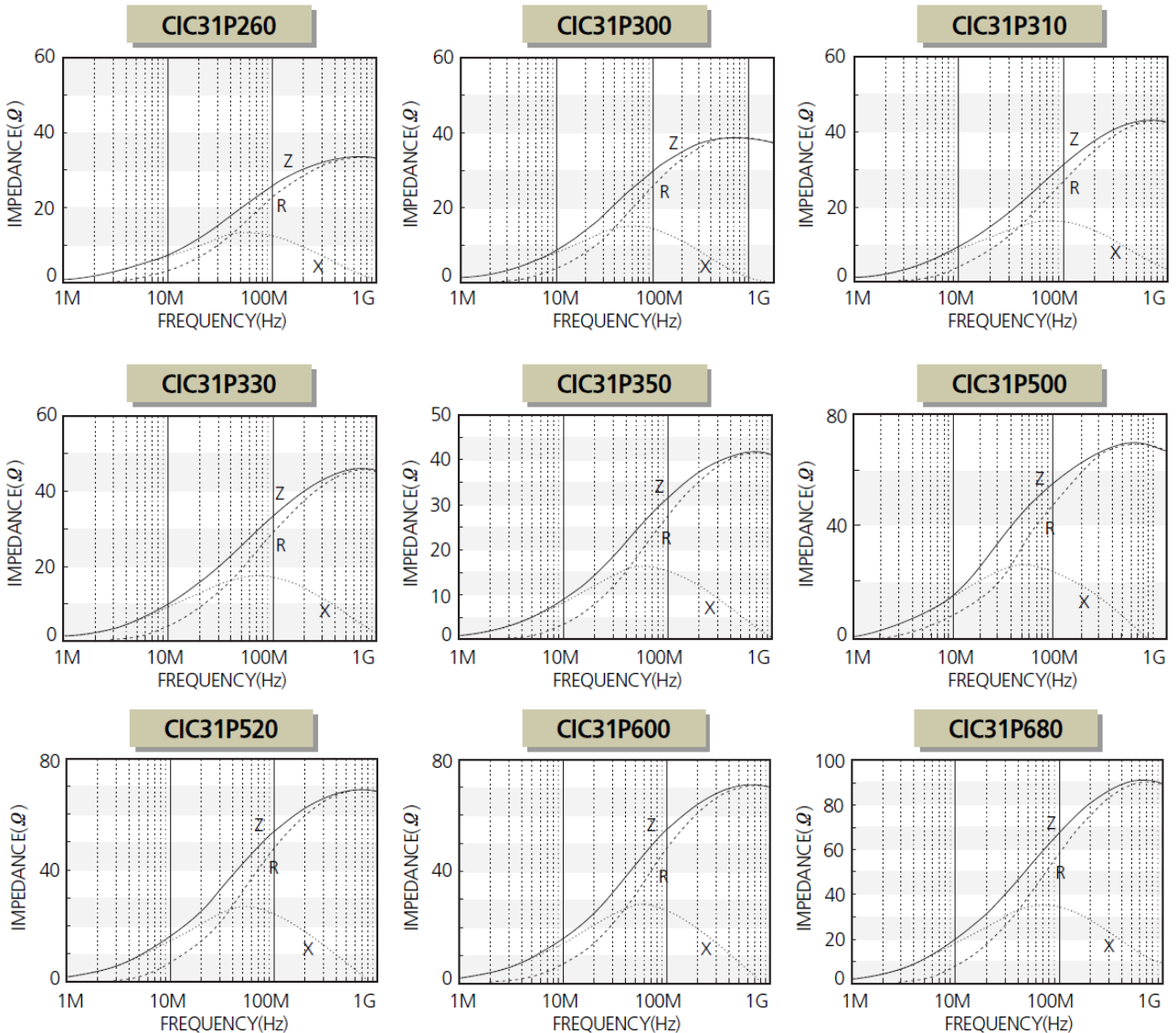
| Type | Dimension [mm] |         |         |                 |
|------|----------------|---------|---------|-----------------|
|      | L              | W       | t       | d               |
| 31   | 3.2±0.2        | 1.6±0.2 | 1.1±0.2 | 0.5+0.2<br>-0.3 |

### DESCRIPTION

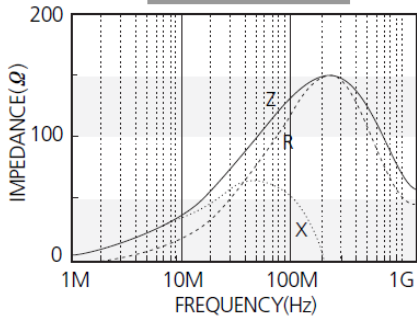
| Part no.  | Thickness (mm) | Impedance (Ω)±25%@100MHz | DC Resistance (Ω) Max. | Rated Current (mA) Max. |
|-----------|----------------|--------------------------|------------------------|-------------------------|
| CIC31P260 | 1.1±0.2        | 26                       | 0.01                   | 6000                    |
| CIC31P300 | 1.1±0.2        | 30                       | 0.01                   | 6000                    |
| CIC31P310 | 1.1±0.2        | 31                       | 0.01                   | 6000                    |
| CIC31P330 | 1.1±0.2        | 33                       | 0.01                   | 6000                    |
| CIC31P350 | 1.1±0.2        | 35                       | 0.025                  | 3000                    |
| CIC31P500 | 1.1±0.2        | 50                       | 0.025                  | 3000                    |
| CIC31P520 | 1.1±0.2        | 52                       | 0.025                  | 3000                    |
| CIC31P600 | 1.1±0.2        | 60                       | 0.025                  | 3000                    |
| CIC31P680 | 1.1±0.2        | 68                       | 0.025                  | 3000                    |
| CIC31P700 | 1.1±0.2        | 70                       | 0.025                  | 3000                    |
| CIC31P800 | 1.1±0.2        | 80                       | 0.025                  | 3000                    |
| CIC31P900 | 1.1±0.2        | 90                       | 0.025                  | 2000                    |
| CIC31P121 | 1.1±0.2        | 120                      | 0.025                  | 2000                    |
| CIC31P151 | 1.1±0.2        | 150                      | 0.05                   | 2000                    |
| CIC31P221 | 1.1±0.2        | 220                      | 0.05                   | 2000                    |
| CIC31P301 | 1.1±0.2        | 300                      | 0.05                   | 2000                    |
| CIC31P391 | 1.1±0.2        | 390                      | 0.05                   | 2000                    |
| CIC31P471 | 1.1±0.2        | 470                      | 0.07                   | 1500                    |

| Part no.  | Thickness (mm) | Impedance ( $\Omega$ ) $\pm$ 25%@100MHz | DC Resistance ( $\Omega$ ) Max. | Rated Current (mA) Max. |
|-----------|----------------|---|---------------------------------|-------------------------|
| CIC31P601 | 1.1 $\pm$ 0.2  | 600                                     | 0.07                            | 1500                    |
| CIC31J300 | 1.1 $\pm$ 0.2  | 30                                      | 0.02                            | 4000                    |
| CIC31J500 | 1.1 $\pm$ 0.2  | 50                                      | 0.02                            | 4000                    |
| CIC31J680 | 1.1 $\pm$ 0.2  | 68                                      | 0.02                            | 4000                    |
| CIC31J800 | 1.1 $\pm$ 0.2  | 80                                      | 0.02                            | 4000                    |
| CIC31J900 | 1.1 $\pm$ 0.2  | 90                                      | 0.02                            | 4000                    |
| CIC31J121 | 1.1 $\pm$ 0.2  | 120                                     | 0.03                            | 4000                    |
| CIC31J151 | 1.1 $\pm$ 0.2  | 150                                     | 0.03                            | 3000                    |
| CIC31J241 | 1.1 $\pm$ 0.2  | 240                                     | 0.05                            | 3000                    |
| CIC31J301 | 1.1 $\pm$ 0.2  | 300                                     | 0.05                            | 3000                    |
| CIC31J471 | 1.1 $\pm$ 0.2  | 470                                     | 0.05                            | 3000                    |
| CIC31J501 | 1.1 $\pm$ 0.2  | 500                                     | 0.05                            | 3000                    |
| CIC31J601 | 1.1 $\pm$ 0.2  | 600                                     | 0.05                            | 2500                    |

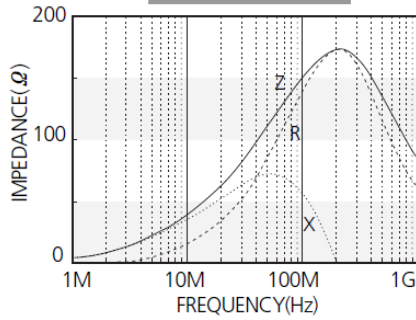
**CHARACTERISTIC DATA**



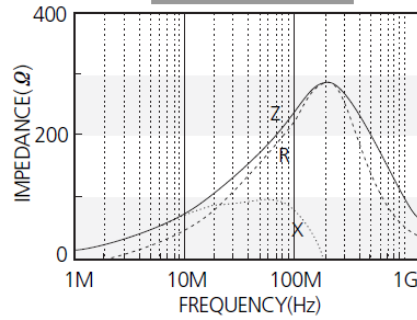
**CIC31P121**



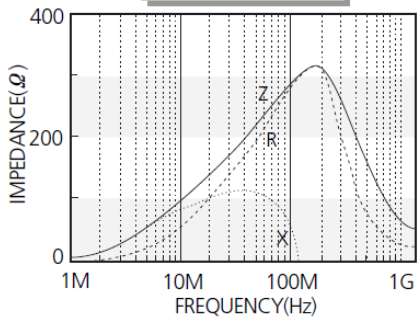
**CIC31P151**



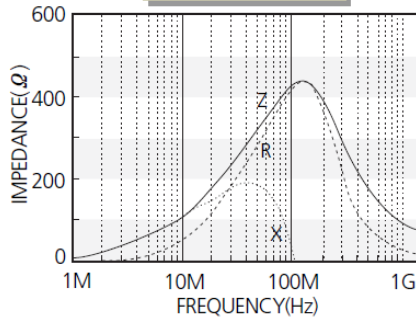
**CIC31P221**



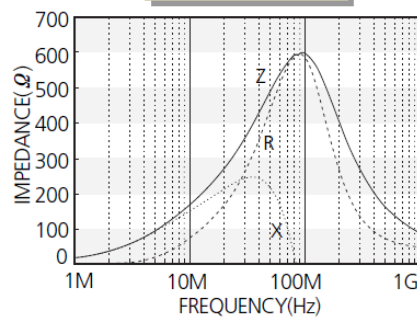
**CIC31P301**



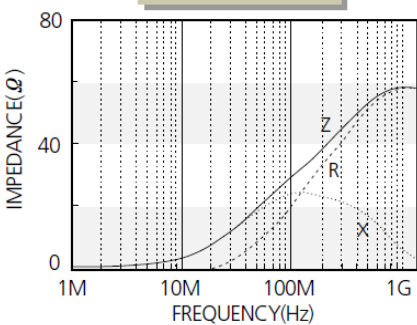
**CIC31P471**



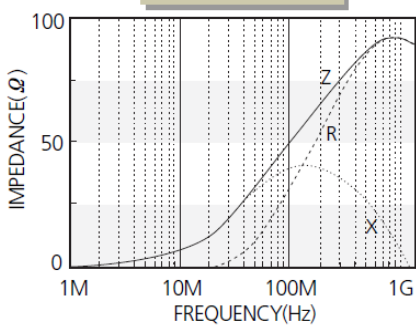
**CIC31P601**



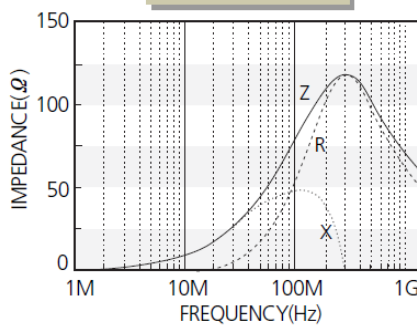
**CIC31J300**



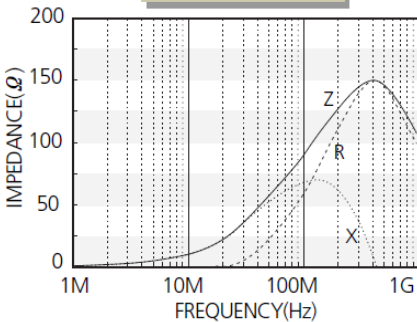
**CIC31J500**



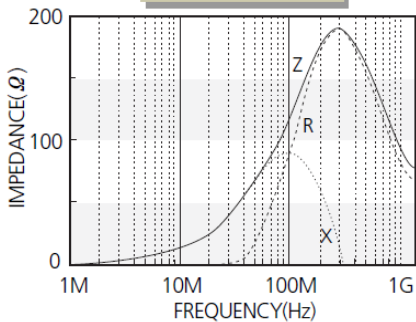
**CIC31J800**



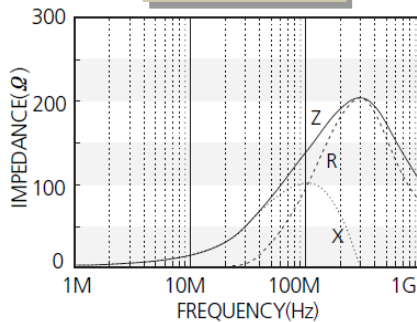
**CIC31J900**



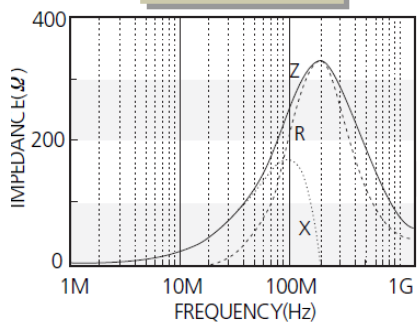
**CIC31J121**



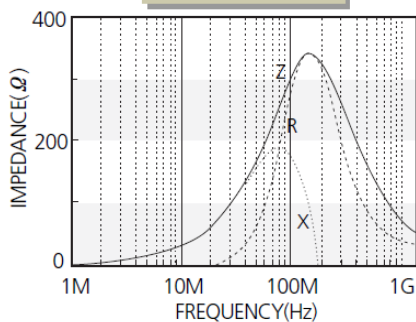
**CIC31J151**



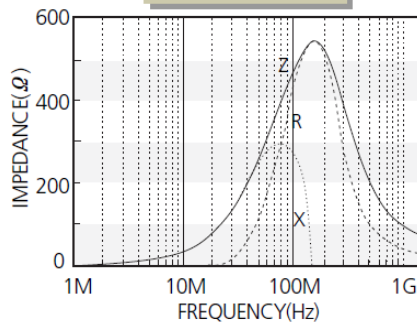
**CIC31J241**

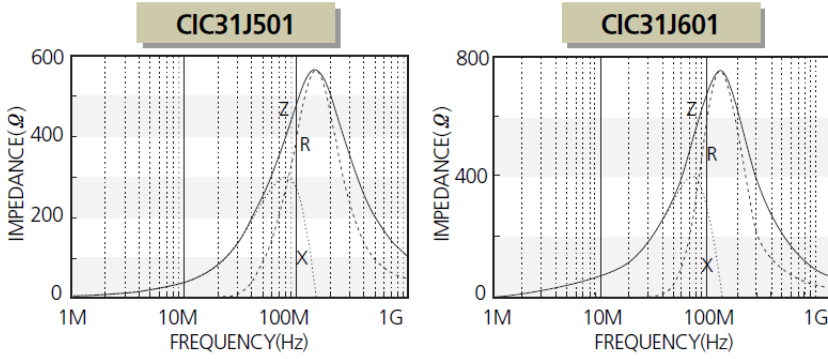


**CIC31J301**



**CIC31J471**





**PRODUCT IDENTIFICATION**

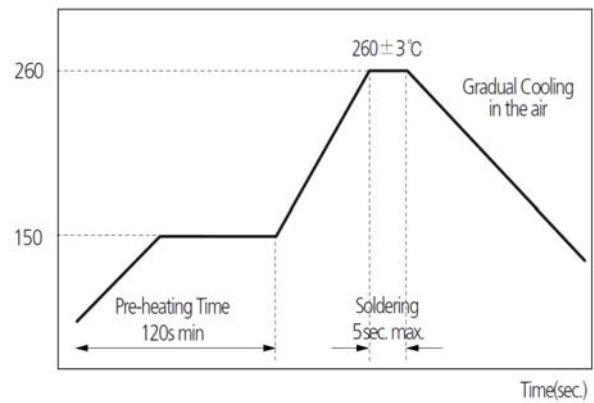
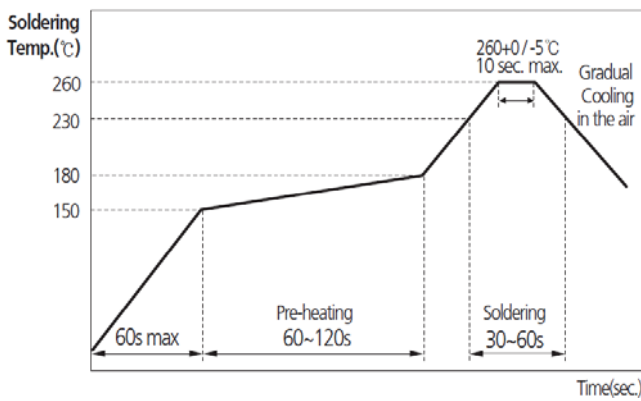
**CI C 31 P 300 N E**  
**(1) (2) (3) (4) (5) (6) (7)**

- (1) Chip Beads
- (2) For High current(C:~3A)
- (3) Dimension
- (4) Material Code
- (5) Nominal impedance (300:30Ω, 221:220Ω )
- (6) Thickness option(N:Standard, A:Thinner than standard, B:Thicker than standard)
- (7) Packaging(C:paper tape, E:embossed tape)

**RECOMMENDED SOLDERING CONDITION**

**REFLOW SOLDERING**

**FLOW SOLDERING**



**PACKAGING**

| Packaging Style | Quantity(pcs/reel) |
|-----------------|--------------------|
| Embossed Taping | 3,000              |





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