



## Technical Specification

### Features

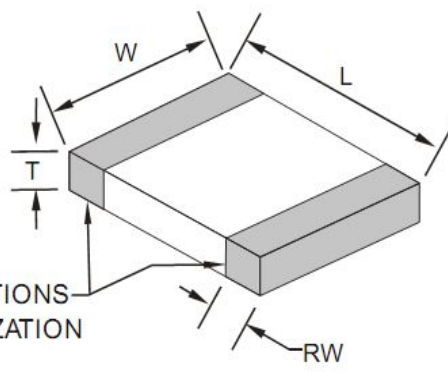
Closed magnetic circuit structure allows high density mounting on a PCB board, mounting while preventing crosswalk.

Extremely high reliability due to entirely monolithic construction.

Low DC resistance structure of electronic to prevent wasteful electric power consumption.

High current application rating look at range.

### Dimensions



| Chip Dimensions |          | Size Code | Size Dimension |
|-----------------|----------|-----------|----------------|
|                 |          | 0402      | 1005           |
| L (mm)          | W (mm)   | T (mm)    | RW (mm)        |
| 1,0±0,15        | 0,5±0,15 | 2,5       | 0,25±0,1       |

## Specifications / Test conditions

|                               | Test-Cond. |                | Min            | Typ. | Max | Unit | Tol. % | Order Code |
|-------------------------------|------------|----------------|----------------|------|-----|------|--------|------------|
| Impedance: ( Z )              | 100        | Mhz            |                | 600  |     | Ω    | 25     | 501        |
| Impedance: ( Z )              | 0          | Ghz            |                | 0    |     | Ω    | 0      |            |
| DC-Resistance: (RDC)          |            |                | --             | 2,50 | --  | Ω    |        |            |
| Rated Current: ( IDC )        |            |                | --             | 50   | --  | mA   |        | 500H       |
| Operating Temperature: ( °C ) |            | -55°C ~ +125°C |                |      |     |      |        |            |
| Tolerance Code:               |            | N              | Material Code: |      | H   |      |        |            |

### Typical Impedance v.s. Frequency Curve:

### Circuit



### Multilayer Chip Suppressors Chip Beads

Serie No.: G12053-501-500H

Customer:

### FREQUENCY (Mhz)

|       |        |      |       |  |        |       |            |
|-------|--------|------|-------|--|--------|-------|------------|
| DRW:  | Johnny | CHKD | Carlo |  | Wor    | DATE  | 27.08.2024 |
| APPD: | Elva   |      |       |  | Vienna | Sheet | 1 from 2   |

Copyright by EDCON S.Tiede

[www.edcon-components.com](http://www.edcon-components.com)

email: [info@edcon-components.com](mailto:info@edcon-components.com)



### Soldering Profile for Lead Soldering

### Soldering Profile for Lead Free Soldering



### Ordering Information

| Serie | Tolerance | Special | ROHS | Packing |
|-------|-----------|---------|------|---------|
|-------|-----------|---------|------|---------|

|                 |   |   |   |    |
|-----------------|---|---|---|----|
| G12053-501-500H | N | X | R | TR |
|-----------------|---|---|---|----|

|                  |                        |                    |                                |
|------------------|------------------------|--------------------|--------------------------------|
| N= Tolerance 25% | X= No special function | R= ROHS conform    | BU= Bulk Ware<br>TR= Tape/Reel |
|                  |                        | N=NON ROHS conform |                                |

### Multilayer Chip Suppressors Chip Beads

Serie No.: G12053-501-500H

Customer:

|       |        |      |       |  |        |       |            |
|-------|--------|------|-------|--|--------|-------|------------|
| DRW:  | Johnny | CHKD | Carlo |  | Wor    | DATE  | 27.08.2024 |
| APPD: | Elva   |      |       |  | Vienna | Sheet | 2 from 2   |

Copyright by EDCON S.Tiede

[www.edcon-components.com](http://www.edcon-components.com)

email: [info@edcon-components.com](mailto:info@edcon-components.com)