



**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 speed / wide band application.

**Applications**

Personal Computers, communications equipment, digital telephones, electronic games machine, CRTs, Hard disk drive, cellular phones, PDAs, Printers, High current DC lines and other computer peripheral products.

**Dimensions**



**Chip Dimensions**

| L (mm)      | W (mm)     | T (mm)     | RW (mm)     |
|-------------|------------|------------|-------------|
| 1,00 +/-0,1 | 0,5 +/-0,1 | 0,5 +/-0,1 | 0,25 +/-0,1 |

**Test conditions**

| Specifications | Test Conditions |                 | Value        | Unit     | Tol.           |
|----------------|-----------------|-----------------|--------------|----------|----------------|
| Impedance      | <b>100Mhz</b>   | Z               | <b>5</b>     | $\Omega$ | <b>+/- 25%</b> |
| Max. Impedance |                 | Z               |              | $\Omega$ | typ.           |
| DC-Resistance  |                 | R <sub>DC</sub> | <b>0,045</b> | $\Omega$ | max.           |
| Rated Current  |                 | I <sub>DC</sub> | <b>500</b>   | mA       | max.           |
|                |                 |                 |              |          |                |

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

IMPEDANCE ( Ohm)

FREQUENCY (Mhz)

**Ferrit Chip Bead Size 0402**

Serie No.: **G12008**

Customer:

|       |        |      |       |        |        |       |            |
|-------|--------|------|-------|--------|--------|-------|------------|
| DRW:  | Johnny | CHKD | Carlo | MATL:  | Wor    | DATE  | 06.06.2009 |
| APPD: | Elva   |      |       | FINISH | Vienna | Sheet | 1 from 2   |



**P.C.B. Layout Dimension**

|   | (mm)      |
|---|-----------|
| A | 0,3       |
| B | 1,5 ~ 1,8 |
| C | 0,7       |



**Soldering Profile**

**Soldering Profile for Lead Soldering**



**Soldering Profile for Lead Free Soldering**



**Ordering Information**

| Serie  | Impedance | Tolerance | Current | ROHS | Packing |
|--------|-----------|-----------|---------|------|---------|
| G12008 | 050       | M         | 501     | R    | TRxxx   |

|            |                  |            |                    |                         |
|------------|------------------|------------|--------------------|-------------------------|
| 050= 5 Ohm | M= Tolerance 20% | 501= 500mA | R= ROHS conform    | BU101= Bulk Ware 100PCS |
|            | K= Tolerance 10% |            | N=NON ROHS conform |                         |

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| DRW:  | Johnny | CHKD | Carlo | MATL:  | Wor    | DATE  | 06.06.2007 |
| APPD: | Elva   |      |       | FINISH | Vienna | Sheet | 2 from 2   |