



**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.

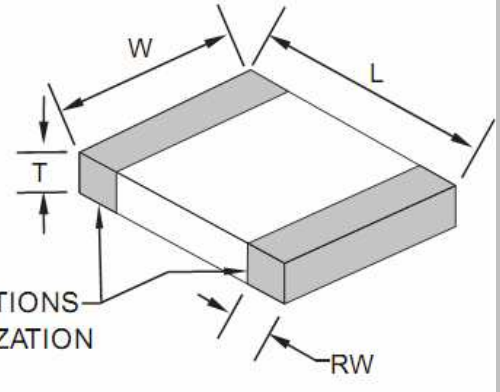
Low DC resistance structure of electronic to prevent wasteful electric power consumption.

Current application rating look at range.

**Applications**

for digital I/F reduce distortion of waveform created by resonance

**Dimensions**



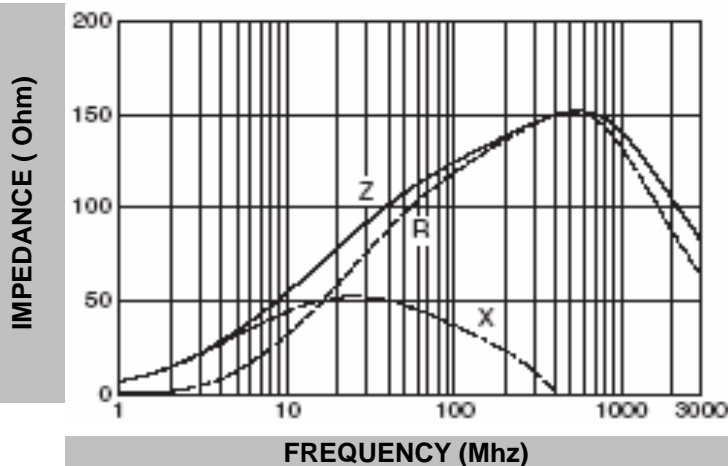
**Chip Dimensions**

| L (mm)      | W (mm)      | T (mm)      | RW (mm)    |
|-------------|-------------|-------------|------------|
| 1,60 +/-0,2 | 0,8 +/-0,15 | 0,8 +/-0,15 | 0,4 +/-0,2 |

**Test conditions**

| Specifications              | Test Conditions |                 | Value        | Unit     | Tol.           |
|-----------------------------|-----------------|-----------------|--------------|----------|----------------|
| Impedance                   | <b>100Mhz</b>   | Z               | <b>120</b>   | $\Omega$ | <b>+/- 25%</b> |
| Max. Impedance              |                 | Z               |              | $\Omega$ | typ.           |
| DC-Resistance               |                 | R <sub>DC</sub> | <b>0,250</b> | $\Omega$ | max.           |
| Rated Current               |                 | I <sub>bc</sub> | <b>200</b>   | mA       | max.           |
| Operating Temperature Range | -55°C ~ +125°C  | °C              |              |          |                |

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



**Circuit**



**Ferrit Chip Bead Size 0603**

Serie No.: **G12030**

Customer:

|       |        |      |       |        |        |       |            |
|-------|--------|------|-------|--------|--------|-------|------------|
| DRW:  | Johnny | CHKD | Carlo | MATL:  | Wor    | DATE  | 12.01.2013 |
| APPD: | Elva   |      |       | FINISH | Vienna | Sheet | 1 from 2   |



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

|   | (mm)        |
|---|-------------|
| A | 0,61 ~ 0,79 |
| B | 1,83 ~ 2,21 |
| C | 0,71 ~ 1,09 |



**Soldering Profile**

**Soldering Profile for Lead Soldering**



**Soldering Profile for Lead Free Soldering**



**Ordering Information**

| Serie  | Impedance    | Tolerance        | Current   | Special                | ROHS                                  | Packing                        |
|--------|--------------|------------------|-----------|------------------------|---------------------------------------|--------------------------------|
| G12030 | 121          | N                | 201       | X                      | R                                     | TR                             |
|        | 121= 120 Ohm | N= Tolerance 25% | 201= 0,2A | X= No special function | R= ROHS conform<br>N=NON ROHS conform | BU= Bulk Ware<br>TR= Tape/Reel |

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