



### 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.

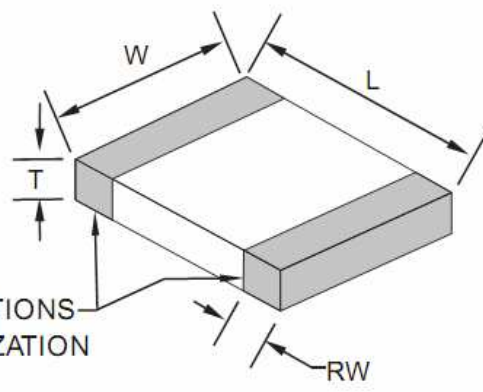
Low DC resistance structure of electronic to prevent wasteful electric power consumption.

High current application rating up to 6A look at size.

#### Applications

Power Lines / Signal Lines

#### Dimensions



TERMINATIONS  
(METALLIZATION  
BANDS)

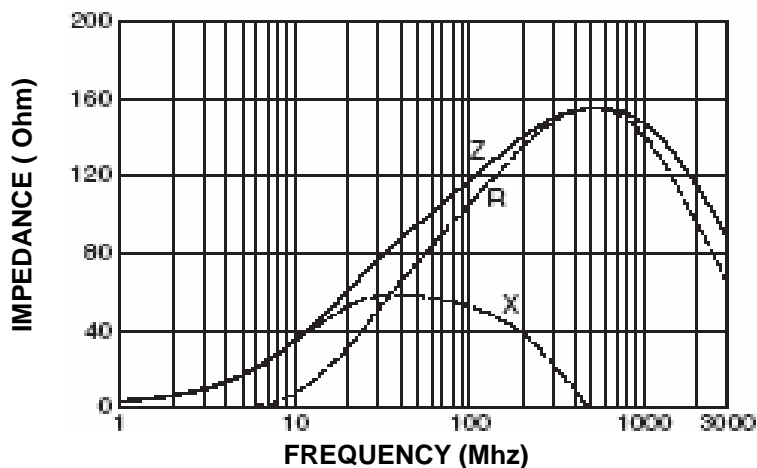
#### Chip Dimensions

| L (mm)       | W (mm)      | T (mm)      | RW (mm)     |
|--------------|-------------|-------------|-------------|
| 1,00 +/-0,05 | 0,5 +/-0,05 | 0,5 +/-0,05 | 0,25 +/-0,1 |

#### Test conditions

| Specifications | Test Conditions |                 | Value        | Unit     | Tol.           |
|----------------|-----------------|-----------------|--------------|----------|----------------|
| Impedance      | <b>100Mhz</b>   | Z               | <b>120</b>   | <b>Ω</b> | <b>+/- 25%</b> |
| Max. Impedance |                 | Z               |              | <b>Ω</b> | typ.           |
| DC-Resistance  |                 | R <sub>DC</sub> | <b>0,130</b> | <b>Ω</b> | max.           |
| Rated Current  |                 | I <sub>DC</sub> | <b>680</b>   | mA       | max.           |

Typical Impedance v.s. Frequency Curve:



#### Circuit



#### Ferrit Chip Bead Size 0402

Serie No.: **G12016**

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 | 0,30 ~ 0,51 |
| B | 1,02 ~ 1,42 |
| C | 0,46 ~ 0,61 |

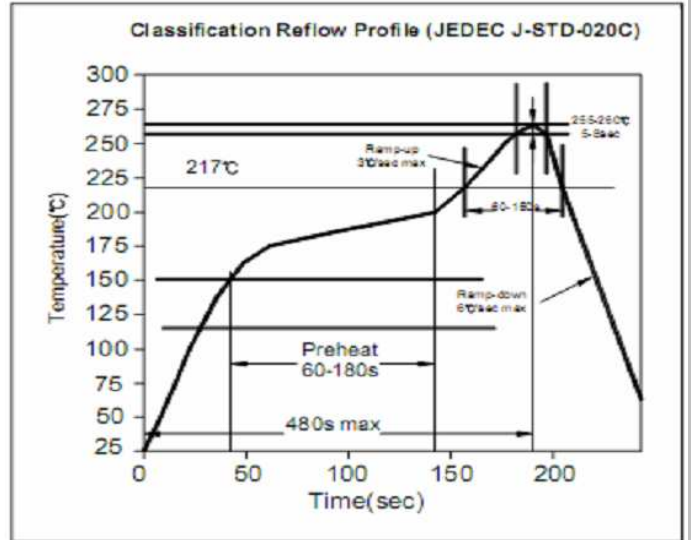


**Soldering Profile**

**Soldering Profile for Lead Soldering**



**Soldering Profile for Lead Free Soldering**



**Ordering Information**

| Serie  | Impedance    | Tolerance        | Current    | Special                | ROHS                                  | Packing                        |
|--------|--------------|------------------|------------|------------------------|---------------------------------------|--------------------------------|
| G12016 | 121          | N                | 681        | X                      | R                                     | TR                             |
|        | 121= 120 Ohm | N= Tolerance 25% | 681= 0,68A | X= No special function | R= ROHS conform<br>N=NON ROHS conform | BU= Bulk Ware<br>TR= Tape/Reel |

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