



## Multilayer Common Mode Choke Coils

GCF0806NF2-Series

### 1. Scope

1. This specification applies to Multilayer Common Mode Choke Coil, GCF Series Its Application is limited for the High speed differential transmission line like as followings.  
USB, LVDS, MIPI, MDDI, MHL, HDMI, DVI.
2. Operating Temperature:-40~+85℃ (Including self-generated heat)

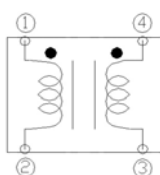
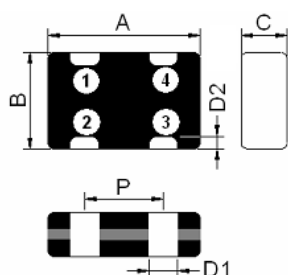


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### 2. Dimensions

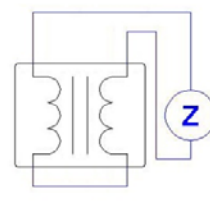
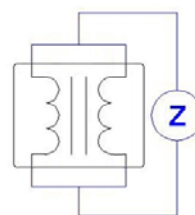
| Chip Size |           |           |            |           |           |                |
|-----------|-----------|-----------|------------|-----------|-----------|----------------|
| Size      | A         | B         | C          | P         | D1        | D2             |
| 0806      | 0.85±0.05 | 0.65±0.05 | 0.40 ±0.05 | 0.50±0.10 | 0.27±0.10 | 0.20+0.05/-0.1 |

Units: mm



Common mode

Differential mode



### 3. Part Numbering

|            |             |            |   |            |          |           |
|------------|-------------|------------|---|------------|----------|-----------|
| <b>GCF</b> | <b>0806</b> | <b>NF2</b> | - | <b>900</b> | <b>T</b> | <b>01</b> |
| A          | B           | C          |   | D          | E        | F         |

- A: Series  
 B: Dimension      A x B  
 C: Material      Lead Free Code  
 D: Impedance      Common Mode Impedance      900=90Ω  
 E: Packaging      T=Taping and Reel  
 F: Rated Current

### 4. Specification

| Part Number       | Common Mode Impedance (Ω) | Test Frequency (MHz) | Rated Voltage (Vdc) max. | Insulation Resistance (MΩ) min. | DC Resistance (Ω) max. | Rated Current (mA) max. |
|-------------------|---------------------------|----------------------|--------------------------|---------------------------------|------------------------|-------------------------|
| GCF0806NF2-120T01 | 12±5Ω                     | 100                  | 5                        | 100                             | 2.5                    | 130                     |
| GCF0806NF2-470T01 | 47±20%                    | 100                  | 5                        | 100                             | 5.0                    | 100                     |
| GCF0806NF2-900T01 | 90±20%                    | 100                  | 5                        | 100                             | 6.5                    | 100                     |

- Rated current: based on temperature rise test



## Impedance-Frequency Characteristics

