

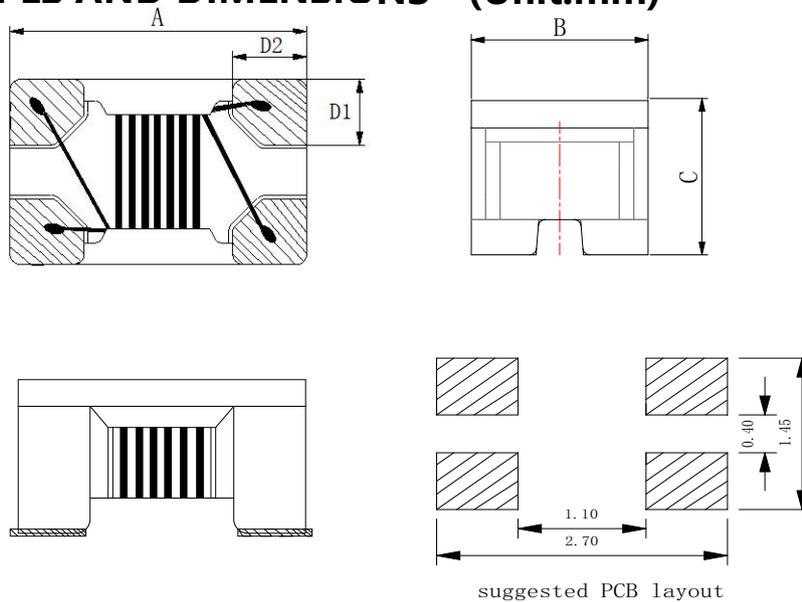
## 1、Features

- Operating temperature -40°C~150°C
- Suitable for lead-free reflow soldering
- Compliance with RoHS and Halogen Free
- Bifilar winding
- AEC-Q200 qualified

## 2、Application

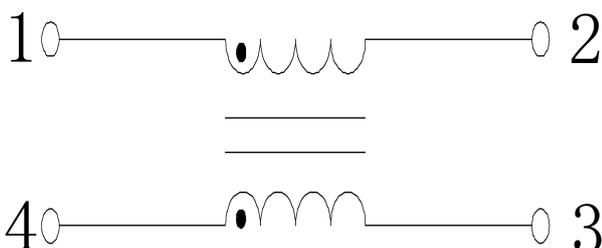
- Used radiation noise suppression for automotive CAN-BUS / Flex Ray systems
- Used for Industrial field bus systems

## 3、外形尺寸 SHAPES AND DIMENSIONS (Unit:mm)



| Series | A       | B        | C        | D1       | D2       |
|--------|---------|----------|----------|----------|----------|
| 2012F  | 2.0±0.2 | 1.27±0.2 | 1.20±0.2 | 0.50±0.1 | 0.45±0.1 |

## 4、电路图 Schematic Diagram



## 5、电性规格 Specification

| Part Number  | Common mode Impedance ( $\Omega$ ) [Test Frequency 100MHz] | DC Resistance ( $\Omega$ ) Max. | Capacitance (pF)Max | Rated Current (mA)Max. | Rated Volt. (Vdc)Max. | Withstand Volt. (Vdc) Max. | IR ( $\Omega$ ) Min. |
|--------------|--|---------------------------------|---------------------|------------------------|-----------------------|----------------------------|----------------------|
| AC2012F-900Z | 90 $\pm$ 25%   | 0.19                            | 5                   | 400                    | 50                    | 125                        | 10M                  |
| AC2012F-121Z | 120 $\pm$ 25%  | 0.22                            | 5                   | 370                    | 50                    | 125                        | 10M                  |
| AC2012F-201Z | 200 $\pm$ 25%  | 0.25                            | 5                   | 350                    | 50                    | 125                        | 10M                  |
| AC2012F-361Z | 360 $\pm$ 25%  | 0.50                            | 5                   | 220                    | 50                    | 125                        | 10M                  |
| AC2012F-681Z | 681 $\pm$ 25%  | 1.30                            | 5                   | 200                    | 50                    | 125                        | 10M                  |
| AC2012F-102Z | 1000 $\pm$ 25%   | 1.50                            | 5                   | 190                    | 50                    | 125                        | 10M                  |
| AC2012F-222Z | 2200 $\pm$ 25%   | 2.50                            | 5                   | 150                    | 50                    | 125                        | 10M                  |

## 6、焊接和安装 Soldering and Mounting

### 6-1. Soldering

Mildly activated rosin fluxes are preferred. FPE terminations are suitable for all wave and re-flow soldering systems. If hand soldering cannot be avoided, the preferred technique is the utilization of hot air soldering tools.

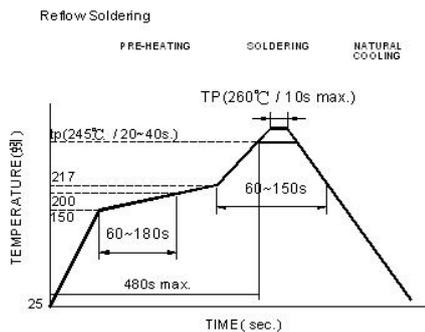
### 6.2 Solder re-flow:

Recommended temperature profiles for re-flow soldering in Figure 1.

### 6.3 Soldering Iron(Figure 2):

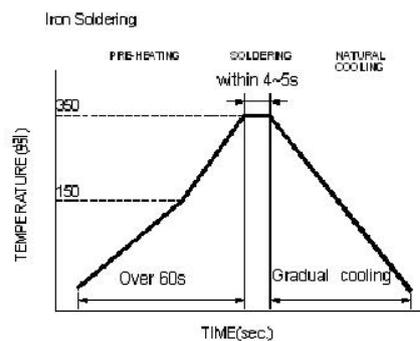
Products attachment with a soldering iron is discouraged due to the inherent process control limitations. In the event that a soldering iron must be employed the following precautions are recommended.

- Preheat circuit and products to 150°C
- Never contact the ceramic with the iron tip
- Use a 20 watt soldering iron with tip diameter of 1.0mm
- 350°C tip temperature (max)
- 1.0mm tip diameter (max)
- Limit soldering time to 4-5 sec.



Reflow times: 3 times max.

Fig.1



Iron Soldering times: 1 times max.

Fig.2

## 7、包装信息 Packaging Information

| Series | Chip/Reel | Carton |
|--------|-----------|--------|
| 2012F  | 10000     | 100000 |