

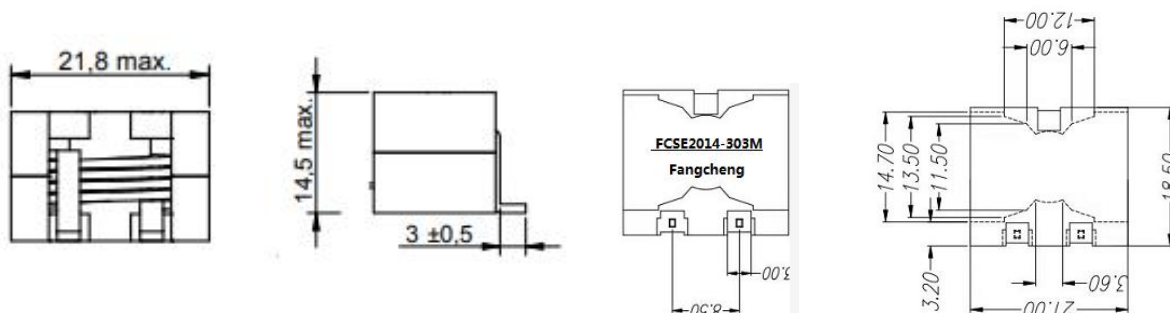
## FC-SE2014-Series SMD Flat Wire High Current Inductor

### Applications

- Industrial computers
- High current switching regulators
- DC/DC converter
- Filter
- Magnetically shielded
- Flat wire coil for low losses at high frequency
- Low stray field
- Operating temperature:  $-40\text{ }^{\circ}\text{C}$  to  $+125\text{ }^{\circ}\text{C}$  /  $+150\text{ }^{\circ}\text{C}$  /  $+155\text{ }^{\circ}\text{C}$
- Recommended solder profile: Reflow



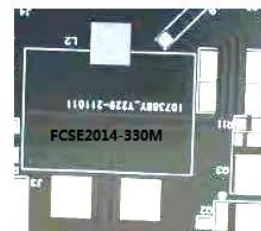
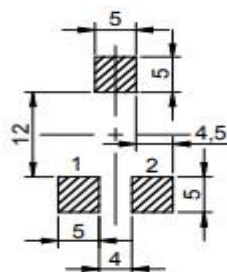
### 1. Dimensions: [mm]



### 2.Schematic:



### 3. Recommended Land Pattern: mm



## FC-HER2014-Series -SMD Flat Wire High Current Inductor

### 4. ELECTRIC CHARACTERICS

| Order Code     | L $\pm$ 20%<br>( $\mu$ h) | L <sub>R</sub><br>( $\mu$ h) | R <sub>DC</sub> $\pm$ 10%<br>(m $\Omega$ ) | I <sub>R</sub><br>(A) | I <sub>sat</sub><br>(A) | Core Material | Qty. |
|----------------|---------------------------|------------------------------|--|-----------------------|-------------------------|---------------|------|
| FC-SE2014-007M | 0.7                       | 0.70                         | 0.83                                       | 32.0                  | 75                      | MnZn          | 100  |
| FC-SE2014-014M | 1.4                       | 1.39                         | 1.08                                       | 31.5                  | 60                      |               |      |
| FC-SE2014-022M | 2.2                       | 2.19                         | 1.50                                       | 28.0                  | 52                      |               |      |
| FC-SE2014-031M | 3.1                       | 3.07                         | 2.09                                       | 26.0                  | 45                      |               |      |
| FC-SE2014-042M | 4.2                       | 4.14                         | 3.04                                       | 24.0                  | 38                      |               |      |
| FC-SE2014-055M | 5.5                       | 5.40                         | 4.00                                       | 22.0                  | 33                      |               |      |
| FC-SE2014-070M | 7.0                       | 6.83                         | 5.61                                       | 21.0                  | 30                      |               |      |
| FC-SE2014-186M | 8.6                       | 8.46                         | 7.19                                       | 17.0                  | 25                      |               |      |
| FC-SE2014-100M | 10.0                      | 9.80                         | 7.96                                       | 16.0                  | 23                      |               |      |
| FC-SE2014-150M | 15.0                      | 14.70                        | 8.70                                       | 14                    | 21.0                    |               |      |
| FC-SE2014-220M | 22.0                      | 21.10                        | 10.65                                      | 12                    | 15.0                    |               |      |
| FC-SE2014-330M | 33.0                      | 19.40                        | 11.40                                      | 12                    | 11.0                    |               |      |
| FC-SE2014-470M | 47.0                      | 12.45                        | 12.20                                      | 12                    | 8.5                     |               |      |

**Remark:**

<1>Inductance: 100KHz 0.1V

<2>Tolerance of inductance: $\pm$ 20%

<3>I<sub>sat</sub>: The value of curret indicates that inductance drops 30%( Tycpial ) from its initial value

<4>I<sub>rms</sub>:The value of current indicates that the temperature of the coil is increase 40°C (Typical)

<5>Test condition: Ta= 25°C