







#### DISCRIPTION

#### **FEATURES**

Low DC resistance and for large currents.
Closed magnetic circuit crosstalk.
Suitable for and reflow soldering.
Available in various sies.
Excellent solderability and heat resistance.
High realiability.

#### **OPTIONS**

Tape & Reel is Standard Tolerance: M=20% is Standard, Tighter Tolerances Available

#### **APPLICATIONS**

Excellent as VTR, OA equipment, LCD television sets, notebook PC, portable communication equipments, DC / DC converters

### PHYSICAL CHARACTERISTICS

- Inductance is measured by LCR-meter 4284A (HP) or equivalent.
- DC Resistance is measured by HP4338B Milliohms Meter or equivalent.
- Rated current is measured by LCR-meter 3260B (WK) & DC Bias 3265B(WK) at 1,0 KHz / 1,0 V.
- Maximum allowable DC current is that which a 30% inductnace reduction from the initial value, or coil temperature to rise by 40°C, whichever is smaller. (Reference ambient temperature 20°C)

### **ELECTRICAL SPECIFICATIONS**

| Properties         | Test conditions |          | Value | Unit | Tol.       |
|--------------------|-----------------|----------|-------|------|------------|
| Inductance         |                 | L        | 10    | μH   | see Site 2 |
| Q factor           |                 | Q        |       |      | min.       |
| DC-resistance      |                 | DCR typ. |       | Ω    | typ.       |
| DC-resistance      |                 | DCR max. | 0,021 | Ω    | max.       |
| Self-Res. Freq.    |                 | SRF      |       | MHz  | min.       |
| Test-Freq.         |                 |          | 100   | KHz  |            |
| Rated Current      |                 | IDC      | 5,4   | Α    | max.       |
| Saturation Current |                 | Isat     |       | Α    | max.       |

1. This electronic component is meant to be used in general electronic equipment. Before the incorporation SMT SHIELDED of this component into any equipment with higher and more reliable requirements such as aviation, **POWER INDUCTORS** aerospace, submarine, nuclear control, transportation, transportation signal, disaster prevention, medical, public information network, etc. or if there is a possibility of injuries or damages to the human body, Edcon -Components must be informed before the stage of design-in. Evaluation checks for safety have to be S50014-100 Part No.: performed on each electronic components used in electrical circuits that require high safety and reliability functions. Customer: DRW: Chang CHKD Young MATL: Chu Chi DATE 29.06.2009 APPD: **FINISH** Vienna Pong Sheet 1 from 2



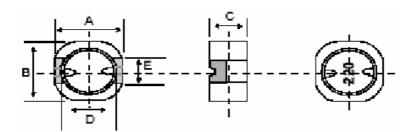






#### **TECHNICAL INFORMATIONS**

#### Dimensions ( mm )



**A** 12,70 max **C** 8,50 max **E** 6,00 typ

**B** 12,70 max **D** 10,50 typ

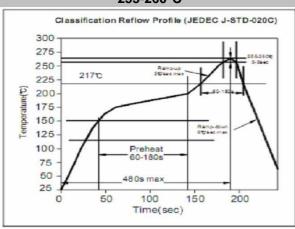
#### **Ordering Information**

| Serie and Range |  |
|-----------------|--|
|                 |  |
| S50014-100      |  |

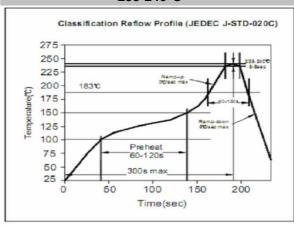
| Tolerance | ROHS | Packing |  |  |
|-----------|------|---------|--|--|
|           |      |         |  |  |
| M         | R    | TR      |  |  |
|           |      |         |  |  |

| <b>K</b> = 10% | R = ROHS     | <b>BU</b> = Bulk Ware |
|----------------|--------------|-----------------------|
| <b>M</b> = 20% | N = non ROHS | TR = Tape Reel        |

# Soldering Profile for Lead Free Soldering 255-260°C



# Soldering Profile for Lead Free Soldering 235-240°C



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functions.

## SMT SHIELDED POWER INDUCTORS

Part No.: **\$50014-100** 

Customer:

| DRW:  | Chang | CHKD | Young | MATL:  | Chu Chi | DATE  | 29.06.2009 |
|-------|-------|------|-------|--------|---------|-------|------------|
| APPD: | Pong  |      |       | FINISH | Vienna  | Sheet | 2 from 2   |