



## DISCRIPTION

### FEATURES

Lowest Height  
Shielded Construction

### OPTIONS

Tape & Reel is Standard ( Qty:1000 Pcs )  
Bulk Packing Available for smaller quantities  
Tolerance: M=20% is Standard,  
Tighter Tolerances Available

### APPLICATIONS

Power Line Filter for DC-DC Converter.  
Switching Power Supplier.  
Personal Computers and Other handheld  
Electronic Equipment.

## PHYSICAL CHARACTERISTICS

- Testing Instrument : HP4284A, CH11025, CH3302, CH1320, CH1320S  
LCR METER/Rdc:CH16502, Agilent33420A Micro Ohmmeter
- Heat Rated Current (I<sub>rms</sub>) will cause the coil T=40°C without core loss
- Saturation Current (I<sub>sat</sub>) will cause L<sub>0</sub> to drop approximately 20%
- The part temperature (ambient + temp rise) should not exceed 125°C under worst case operating conditions. Circuit design, component, PCB trace size and thickness, airflow and other cooling provisions all affect the part temperature. Part temperature should be verified in the end application.
- Operating Temperature & Storage Temperature: -40°C ~ +105°C

## ELECTRICAL SPECIFICATIONS

| Properties         | Test conditions |                  | Value | Unit | Tol.       |
|--------------------|-----------------|------------------|-------|------|------------|
| Inductance         |                 | L                | 10    | µH   | see Site 2 |
| Q factor           |                 | Q                | ---   |      | min.       |
| DC-resistance      |                 | DCR typ.         | ---   | mΩ   | typ.       |
| DC-resistance      |                 | DCR max.         | 105   | mΩ   | max.       |
| Self-Res. Freq.    |                 | SRF              | ---   | KHz  | min.       |
| Test-Freq.         |                 |                  | 100   | KHz  |            |
| Rated Current      |                 | I <sub>rms</sub> | 4,5   | A    | max.       |
| Saturation Current |                 | I SAT            | 3,0   | A    | max.       |

1. This electronic component is meant to be used in general electronic equipment. Before the incorporation of this component into any equipment with higher and more reliable requirements such as aviation, 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 performed on each electronic components used in electrical circuits that require high safety and reliability functions.

### HIGH CURRENT POWER INDUCTOR

Part No.: **S36002-100**

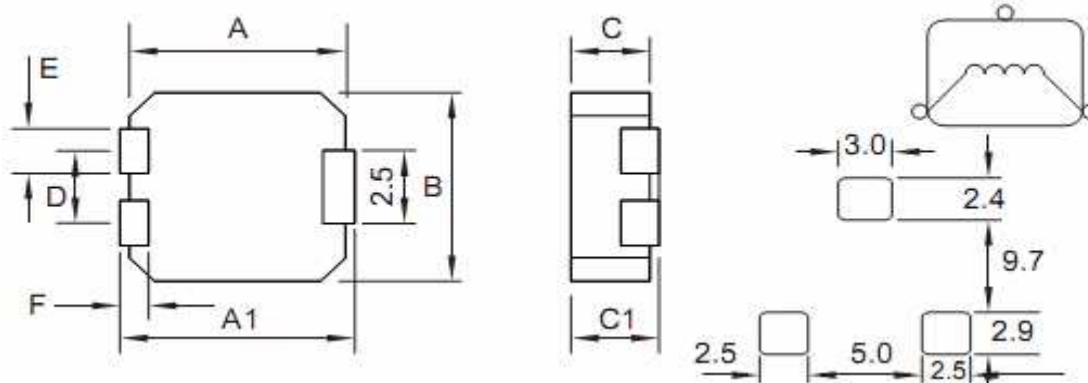
Customer:

|       |       |      |       |        |         |       |            |
|-------|-------|------|-------|--------|---------|-------|------------|
| DRW:  | Chang | CHKD | Young | MATL:  | Chu Chi | DATE  | 23.06.2009 |
| APPD: | Pong  |      |       | FINISH | Vienna  | Sheet | 1 from 2   |



**TECHNICAL INFORMATIONS**

**Dimensions ( mm )**

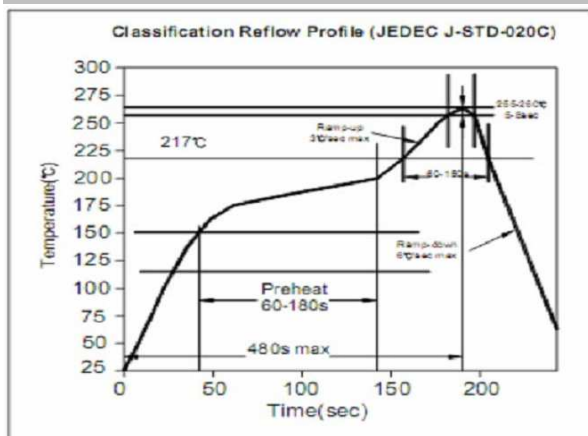


|           |            |           |           |          |           |
|-----------|------------|-----------|-----------|----------|-----------|
| <b>A</b>  | 6,86 ± 0,5 | <b>C</b>  | 4,0 max   | <b>E</b> | 2,1 ± 0,5 |
| <b>A1</b> | 7,8 max    | <b>C1</b> | 4,2 max   |          |           |
| <b>B</b>  | 7,0 max    | <b>D</b>  | 1,6 ± 0,5 |          |           |

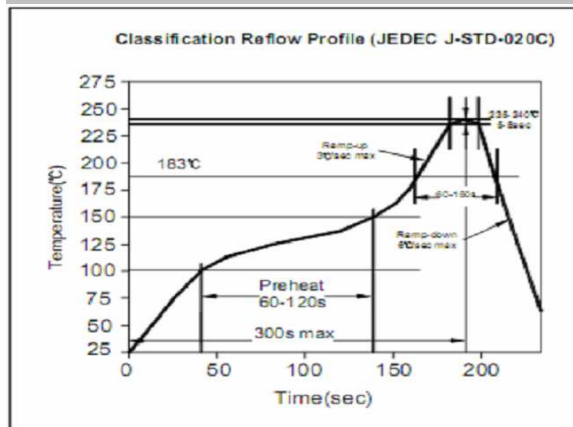
**Ordering Information**

| Serie and Range | Tolerance | ROHS                     | Packing                          |
|-----------------|-----------|--------------------------|----------------------------------|
| S36002-100      | M         | R                        | TR                               |
|                 | M = 20%   | R = ROHS<br>N = non ROHS | BU = Bulk Ware<br>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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