



## DISCRIPTION

### FEATURES

Ferrite shielded structure  
High Frequency Desgin  
Lower DCR permits High Idc  
Available in E 12 serie  
Excellent Q SRF Values  
Excellent Thermal Stability  
Lead Free versions

### OPTIONS

Tape & Reel is Standard ( Qty: 500 Pcs )  
Bulk Packing Available for smaller quantites  
Tolerance: K = 10% and M=20% is Standard,  
tighter Tolerance available ( MOQ on request )

### APPLICATIONS

Modems PDP, LCD TVs convertor  
Mobile Radios DC/DC convertor  
Cordless Telephones Car radios  
Global Positioning Systems  
Wireless Communications Equipment  
Network Systems  
Computer Peripheral Equipment

## PHYSICAL CHARACTERISTICS

- Testing : ( Equivalents acceptable ) Inductance : HP4291A, HP16193A, HPA4286A or equivalent  
RDC : QuadTech 1880 mΩ Q : HP4342A SRF : HP4191A
- Rated Current L value drop 10% typ at IDC against its initial value
- Temperature rise 40°C Max Reference ambient temperature
- Solderability : 75% of the terminal electrode shall be convered
- Soldering Methods : Wave, Reflow
- Operating Temperature : -25°C ~ +85°C
- Storage Temperature : -55°C ~ +125°C

## ELECTRICAL SPECIFICATIONS

| Properties         | Test conditions |                 | Value | Unit | Tol.       |
|--------------------|-----------------|-----------------|-------|------|------------|
| Inductance         |                 | <b>L</b>        | 150   | μH   | see Site 2 |
| Q factor           |                 | <b>Q</b>        | 45    |      | min.       |
| DC-resistance      |                 | <b>DCR typ.</b> | ---   | Ω    | typ.       |
| DC-resistance      |                 | <b>DCR max.</b> | 0,36  | Ω    | max.       |
| Self-Res. Freq.    |                 | <b>SRF</b>      | 6,5   | Mhz  | min.       |
| Test-Freq.         |                 |                 | 1     | Mhz  |            |
| Rated Current      |                 | <b>IDC</b>      | 420   | mA   | max.       |
| Saturation Current |                 | <b>Isat</b>     | ---   | mA   | typ.       |

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 SHIELDED SMT WIRE-WOUND INDUCTOR

Part No.: **S17002-151**

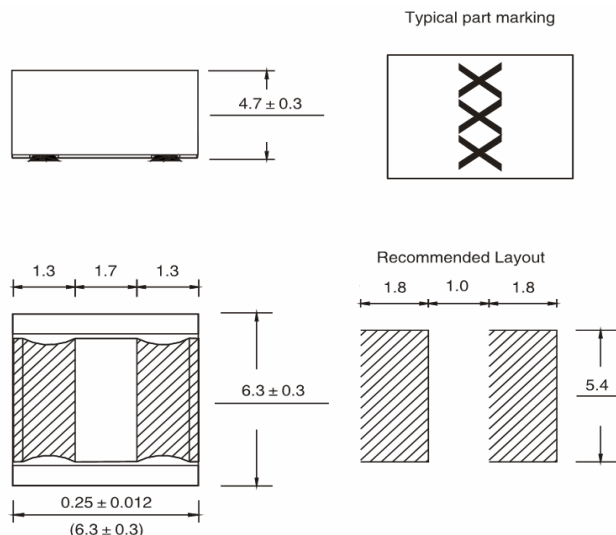
Customer:

|       |       |      |       |        |         |       |            |
|-------|-------|------|-------|--------|---------|-------|------------|
| DRW:  | Chang | CHKD | Young | MATL:  | Chu Chi | DATE  | 12.06.2009 |
| APPD: | Pong  |      |       | FINISH | Vienna  | Sheet | 1 from 2   |



## TECHNICAL INFORMATION

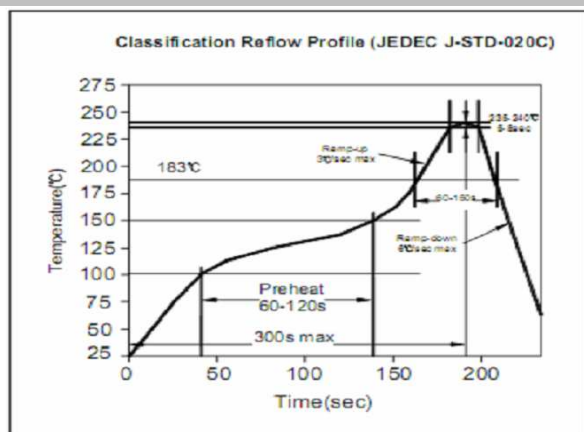
### Dimensions ( mm )



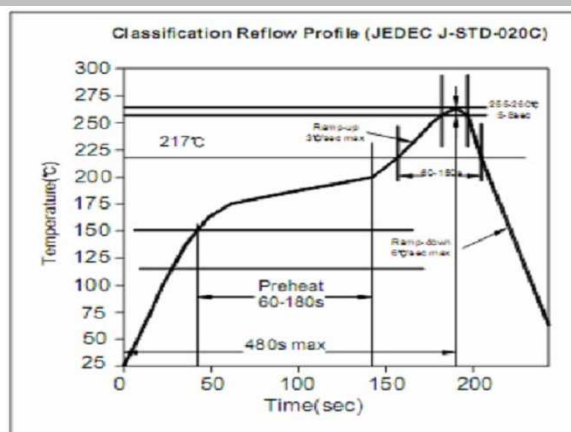
### Ordering Information

| Serie and Range   | Tolerance      | ROHS                | Packing               |
|-------------------|----------------|---------------------|-----------------------|
| <b>S17002-151</b> | <b>K</b>       | <b>R</b>            | <b>TR</b>             |
|                   | <b>K = 10%</b> | <b>R = ROHS</b>     | <b>BU = Bulk Ware</b> |
|                   | <b>M = 20%</b> | <b>N = non ROHS</b> | <b>TR = Tape Reel</b> |

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



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



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