



## DISCRIPTION

### FEATURES

Multilayer ceramic structure  
Closed magnetic circuit  
Avoids crosstalk  
Excellent solderability  
High reliability

### OPTIONS

Tape & Reel is Standard ( Qty: 2.000 Pcs )  
Bulk Packing Available for smaller quantites  
Tolerance: K=10%, M=20% is Standard,  
tighter Tolerance available ( MOQ on request )

### APPLICATIONS

VCRs  
Mobile Radios  
Cordless Telephones  
Modems  
Global Position Systems  
Wirless Communications Equipment  
Network Systems  
Computer Products

### APPROVAL



## PHYSICAL CHARACTERISTICS

- Testing : ( Equivalents acceptable ) Inductance & Q-HP4195A + HP41951  
DCR : VOAC-7412 ; SRF : HP8753C
- Solderability : 90% of the terminal Electrode shall be covered  
Preheat : 260°C ± 5°C for 160 second  
Solder : H63AA Eutectic Solder ; Flux : Rusin, DIP for 5 seconds ± 1 second
- Thermal Shock : Inductance shall be within ± 5% of initial value when temperature is -40°C and 85°C for 30 min. for each 100 cycles
- Operating Temperature : -25°C ~ 85°C
- Storage Temperature : -40°C ~ 85°C

## ELECTRICAL SPECIFICATIONS

| Properties         | Test conditions |                 | Value | Unit | Tol.       |
|--------------------|-----------------|-----------------|-------|------|------------|
| Inductance         |                 | <b>L</b>        | 1,0   | 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> | 0,40  | Ω    | max.       |
| Self-Res. Freq.    |                 | <b>SRF</b>      | 75    | Mhz  | min.       |
| Test-Freq.         |                 |                 | 10    | Mhz  |            |
| Rated Current      |                 | <b>IDC</b>      | 100   | 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.

### SMT Multi-Layer Ceramic Chip Inductors

Part No.: **S11006-1R0**

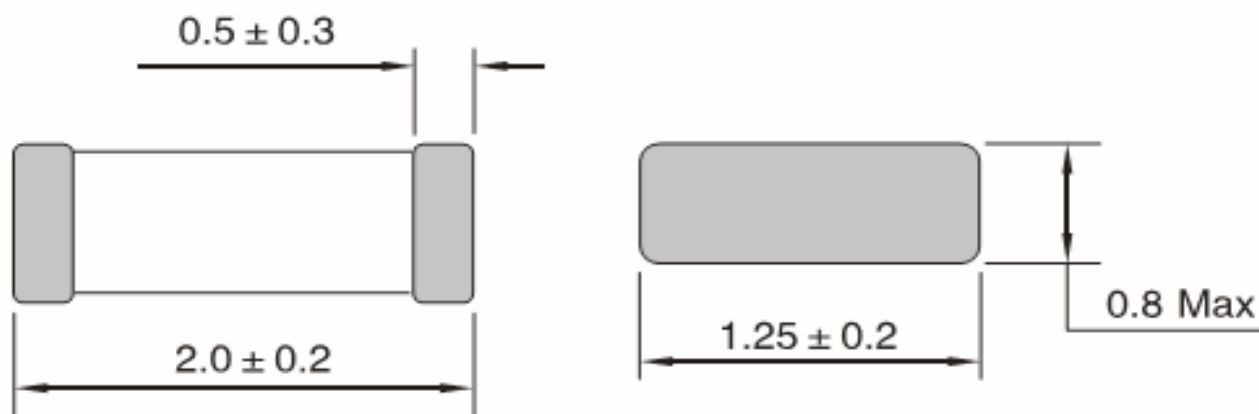
Customer:

|       |       |      |       |        |         |       |            |
|-------|-------|------|-------|--------|---------|-------|------------|
| DRW:  | Chang | CHKD | Young | MATL:  | Chu Chi | DATE  | 08.06.2009 |
| APPD: | Pong  |      |       | FINISH | Vienna  | Sheet | 1 from 2   |



## TECHNICAL INFORMATION

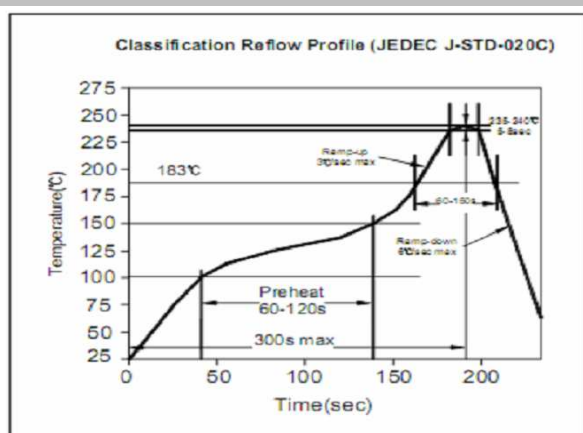
### Dimensions ( mm )



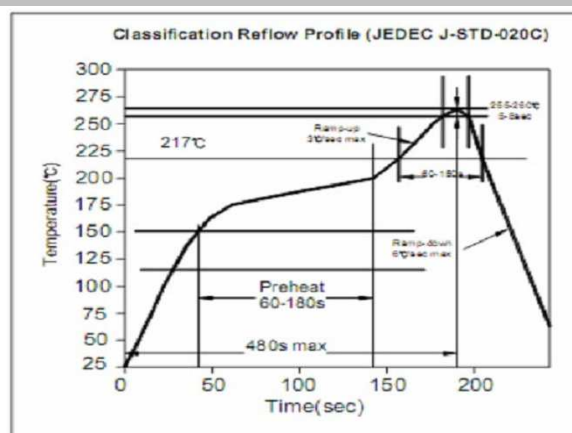
### Ordering Information

| Serie and Range | Tolerance | ROHS         | Packing        |
|-----------------|-----------|--------------|----------------|
| S11006-1R0      | K         | R            | TR             |
|                 | K = 10%   | R = ROHS     | BU = Bulk Ware |
|                 | M = 20%   | N = non ROHS | TR = Tape Reel |
|                 | N = 30%   |              |                |

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



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



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