



DISCRIPTION

FEATURES

Ceramic Core
 High frequency design
 Excellent Q values
 Excellent SRF
 High reliability
 Excellent thermal stability

OPTIONS

Tape & Reel is Standard (Qty: 3.000 Pcs)
 Bulk Packing Available for smaller quantities
 Tolerance: J = 5% and K=10% is Standard,
 tighter Tolerance available (MOQ on request)

APPLICATIONS

Modems
 Mobile Radios
 Cordless Telephones
 Global Positioning Systems
 Telecommunications Systems

PHYSICAL CHARACTERISTICS

- Testing : (Equivalents acceptable) Inductance & Q-HP4191A + HP41951
 SRF : HP8753B ; RDC : 25°C
- Operating Temperature : Ceramic -55°C ~ 125°C
- Pad metalization : Tungsten-nickel with gold flash
- Solder methods : Wave, Reflow, Vapor Phase
- Solderability : Max 260°C for 10 seconds
- Marking : EIA color code

ELECTRICAL SPECIFICATIONS

| Properties | Test conditions | | Value | Unit | Tol. |
|--------------------|-----------------|-----------------|-------|------|------------|
| Inductance | | L | 2,2 | µH | see Site 2 |
| Q factor | | Q | 21 | | min. |
| DC-resistance | | DCR typ. | --- | Ω | typ. |
| DC-resistance | | DCR max. | 3,800 | Ω | max. |
| Self-Res. Freq. | | SRF | 150 | Mhz | min. |
| Test-Freq. | | | 50 | Mhz | |
| Rated Current | | IDC | 150 | mA | max. |
| Saturation Current | | Isat | --- | 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 WIRE-WOUND CERAMIC CHIP INDUCTORS

Part No.: **S12003-2R2**

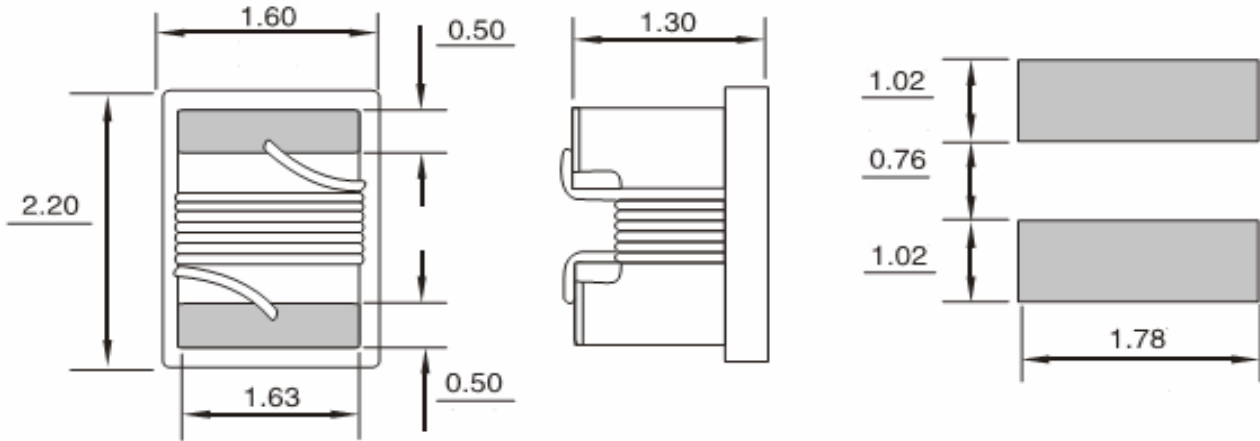
Customer:

| | | | | | | | |
|-------|-------|------|-------|--------|---------|-------|------------|
| DRW: | Chang | CHKD | Young | MATL: | Chu Chi | DATE | 09.06.2009 |
| APPD: | Pong | | | FINISH | Vienna | Sheet | 1 from 2 |



TECHNICAL INFORMATIONS

Dimensions (mm)

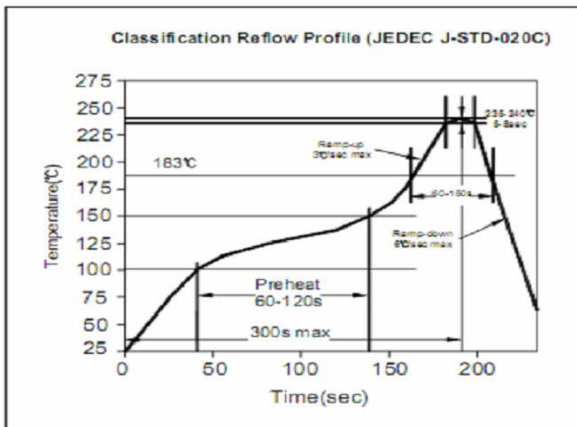


Ordering Information

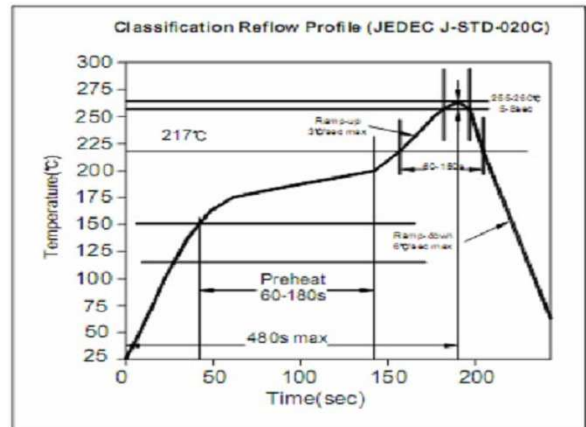
| Serie and Range |
|-----------------|
| S12003-2R2 |

| Tolerance | ROHS | Packing |
|-----------|--------------|----------------|
| K | R | TR |
| J = 5% | R = ROHS | BU = Bulk Ware |
| K = 10% | N = non ROHS | TR = Tape Reel |
| M = 20% | | |
| N = 30% | | |

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



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



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 WIRE-WOUND
CERAMIC CHIP
INDUCTORS**

Part No.: **S12003-2R2**

Customer:

| | | | | | | | |
|-------|-------|------|-------|--------|---------|-------|------------|
| DRW: | Chang | CHKD | Young | MATL: | Chu Chi | DATE | 09.06.2009 |
| APPD: | Pong | | | FINISH | Vienna | Sheet | 2 from 2 |