



DISCRIPTION

FEATURES

Low profile very effective in spaceconscious applications. Low resistance and high energy storge. Designed for smallest possible size, lowest cost and highest performance. High energy storage and very low resistance. Flat top for relisble surface mounting. Robust temperature deflection pervents damage during solder reflow.

OPTIONS

Tape & Reel is Standard Bulk Packing Available for smaller quantites Tolerance: M=20% is Standard

APPLICATIONS

DC-DC Converter Notebook PDA Mobile Hand-Phone Step-down Converters Flash Memory

PHYSICAL CHARACTERISTICS

- Inductance tested at 100 kHz, 0,1 Vrms, 0 Adc at 4284A (HP) LCR meter or equivalent.
- Isat : DC current at which the inductance drops 10% (typ) from its value without current.
- Irms : Average current for 15°C temperature rise from 25°C ambient.
- Operating temperature range -40°C ~ +85°C.
- Electrical specifications at 25°C.

ELECTRICAL SPECIFICATIONS

| Properties | Test conditions | | Value | Unit | Tol. |
|--------------------|-----------------|----------|-------|------|------------|
| Inductance | | L | 1,0 | mH | see Site 2 |
| Q factor | | Q | | | min. |
| DC-resistance | | DCR typ. | | Ω | typ. |
| DC-resistance | | DCR max. | 2,0 | Ω | max. |
| Self-Res. Freq. | | SRF | 13,8 | Mhz | min. |
| Test-Freq. | | | | Mhz | |
| Rated Current | | Irms | 70 | mA | max. |
| Saturation Current | | Isat | 100 | mA | typ. |

| 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 | | | | | | Power I | | shielded Inductor | |
|---|-------|------|-------|--------|-----------|-----------|----------|----------------------|--|
| -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 | | | | | Part No.: | S1(| 6003-102 | | |
| functions. | | | | | | Customer: | | | |
| DRW: | Chang | CHKD | Young | MATL: | Chu Chi | DATE | | 11.06.2009 | |
| APPD: | Pong | | | FINISH | Vienna | Sheet | | 1 from 2 | |

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TECHNICAL INFORMATIONS

Dimensions (mm) A 4,45 max B 6,60 max C 2,92 max D 1,27 ± 0,15

Ordering Information

D

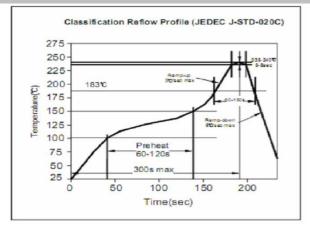
Serie and Range

S16003-102

| Tolerance | ROHS | Packing | | |
|----------------|-----------------|-----------------------|--|--|
| | | | | |
| М | R | TR | | |
| | | | | |
| M = 20% | R = ROHS | BU = Bulk Ware | | |
| | N = non ROHS | TR = Tape Reel | | |

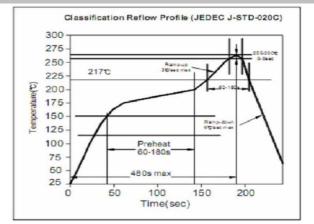
Ε

Soldering Profile for Lead Free Soldering 235-240°C



Soldering Profile for Lead Free Soldering 255-260°C

 $4,32 \pm 0,30$



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|---|-------|------|-------|--------|-----------|----------------------------------|------------|--|
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