



DISCRIPTION

FEATURES

Useful for application requiring inductance to vary with current load changes.
 Self electromagnetic shielding.
 Useful wide variety of power conversion and line filter application.
 Wound on iron power material triodes.
 High current, Low resistance, current up to 45 Amps.

OPTIONS

Tape & Reel is Standard
 Tolerance: M=20% is Standard,
 Tighter Tolerances Available

APPLICATIONS

Excellent for power line DC-DC conversion applications used in hard disk, notebook computers and other electronic equipment.

PHYSICAL CHARACTERISTICS

- Inductance: HP4284A LCR Meter
- DC Resistance: HP4338B Milliohms Meter
- DC Bias: WK3265B+WK3260B

ELECTRICAL SPECIFICATIONS

| Properties | Test conditions | | Value | Unit | Tol. |
|--------------------|-----------------|-----------------|-------|------|------------|
| Inductance | | L | 560 | nH | see Site 2 |
| Q factor | | Q | --- | | min. |
| DC-resistance | | DCR typ. | --- | mΩ | typ. |
| DC-resistance | | DCR max. | 1,5 | mΩ | max. |
| Self-Res. Freq. | | SRF | --- | MHz | min. |
| Test-Freq. | | | 100 | KHz | |
| Rated Current | | IDC | 25 | A | max. |
| Saturation Current | | Isat | --- | A | max. |
| Core Material | | | 52 | | |

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 TOROIDAL HIGH CURRENT POWER INDUCTORS

Part No.: **S43002-R56**

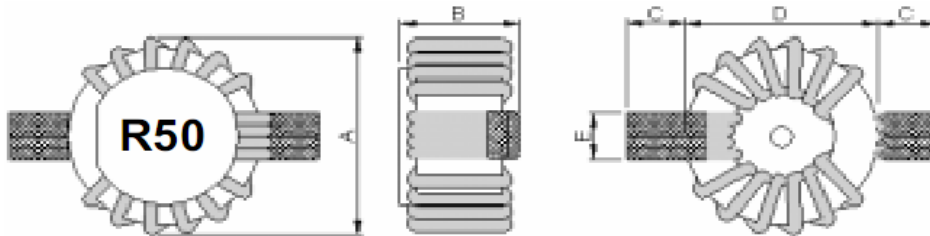
Customer:

| | | | | | | | |
|-------|-------|------|-------|--------|---------|-------|------------|
| DRW: | Chang | CHKD | Young | MATL: | Chu Chi | DATE | 26.06.2009 |
| APPD: | Pong | | | FINISH | Vienna | Sheet | 1 from 2 |



TECHNICAL INFORMATIONS

Dimensions (mm)



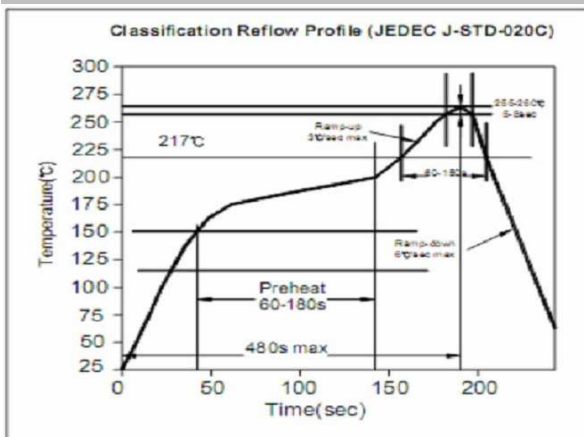
| | | | | | | | |
|----------|-----------|----------|------------|-------------|-----------|-------------|------|
| A | 16,0 Max. | C | 2,54 ± 0,3 | E | 2,54 Max. | ID * | 5,82 |
| B | 7,0 Max. | D | 11,2 Ref. | OD * | 11,2 | Ht * | 4,04 |

* Iron Core Dimension

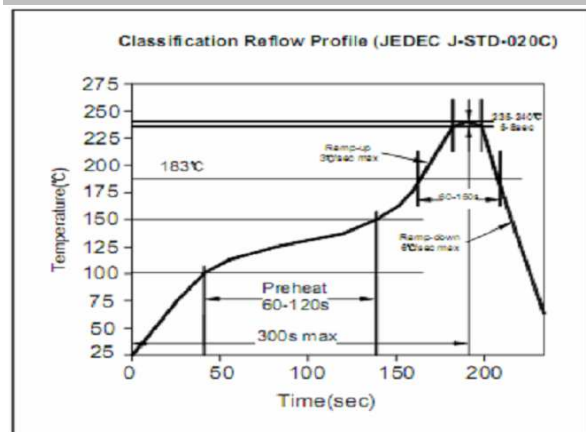
Ordering Information

| Serie and Range | Tolerance | ROHS | Packing |
|-----------------|-----------|--------------|----------------|
| S43002-R56 | M | R | TR |
| | K = 10% | R = ROHS | BU = Bulk Ware |
| | M = 20% | N = non ROHS | TR = Tape Reel |

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



**Soldering Profile for Lead Free Soldering
235-240°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 TOROIDAL HIGH
CURRENT POWER
INDUCTORS**

Part No.: **S43002-R56**

Customer:

| | | | | | | | |
|-------|-------|------|-------|--------|---------|-------|------------|
| DRW: | Chang | CHKD | Young | MATL: | Chu Chi | DATE | 26.06.2009 |
| APPD: | Pong | | | FINISH | Vienna | Sheet | 2 from 2 |