



## DISCRIPTION

### FEATURES

Higher Frequency  
 High Saturation Material  
 Low EMI Radiation  
 Pick and Place  
 Low DC Resistance

### OPTIONS

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

### APPLICATIONS

Electronic Appliances  
 DC-DC Conversion  
 EMI/RFI Suppression

## PHYSICAL CHARACTERISTICS

- Insulation Resistance: 100Vdc 1KM min
- Turns Ratio: 1,1 0%
- RDC: QuadTech 1880 Milliohmmer
- Soldering temperature:260°C for 1 seconds
- Operating temperature:-40°C ~ +125°C
- Storage Temperature: -55°C ~ +125°C
- Different package available per special request
- Max of 35% saturation on DC bias applied

## ELECTRICAL SPECIFICATIONS

| Properties         | Test conditions |          | Value  | Unit | Tol.       |
|--------------------|-----------------|----------|--------|------|------------|
| OCL                |                 | nominal  | 100,57 | µH   | see Site 2 |
| Q factor           |                 | Q        | ---    |      | min.       |
| DC-resistance      |                 | DCR typ. | ---    | Ω    | typ.       |
| DC-resistance      |                 | DCR max. | 0,201  | Ω    | max.       |
| Self-Res. Freq.    |                 | SRF      | ---    | MHz  | min.       |
| Test-Freq.         |                 |          | 100    | KHz  |            |
| Rated Current      |                 | IDC      | 1,37   | A    | max.       |
| Saturation Current |                 | I SAT    | ---    | A    | max.       |

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 COILS AND COMMON MODE TOROIDAL CHORES

#### PARALLEL

Part No.: **S39004-101**

Customer:

|       |       |      |       |        |         |       |            |
|-------|-------|------|-------|--------|---------|-------|------------|
| DRW:  | Chang | CHKD | Young | MATL:  | Chu Chi | DATE  | 24.06.2009 |
| APPD: | Pong  |      |       | FINISH | Vienna  | Sheet | 1 from 2   |

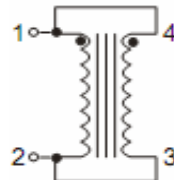


## TECHNICAL INFORMATIONS

### Dimensions ( mm )



|          |       |
|----------|-------|
| <b>A</b> | 11,43 |
| <b>B</b> | 13,97 |
| <b>C</b> | 6,35  |
| <b>D</b> | 8,84  |
| <b>E</b> | 12,50 |
| <b>F</b> | 12,50 |
| <b>G</b> | 4,06  |



### Ordering Information

|                        |
|------------------------|
| <b>Serie and Range</b> |
| <b>S39004-101</b>      |

|                  |  |  |
|------------------|--|--|
| <b>Tolerance</b> | <b>ROHS</b>                            | <b>Packing</b>                                 |
| <b>M</b>         | <b>R</b>                               | <b>TR</b>                                      |
| <b>M = 20%</b>   | <b>R = ROHS</b><br><b>N = non ROHS</b> | <b>BU = Bulk Ware</b><br><b>TR = Tape Reel</b> |

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



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



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