

**RoHS  
Compliant**



## Specifications:

|                          |              |
|--------------------------|--------------|
| Inductance               | : 8mH        |
| Inductance Tolerance     | : $\pm 10\%$ |
| DC Resistance Max        | : 16Ω        |
| DC Current Rating        | : 220mA      |
| Inductor Case Style      | : SMD        |
| No. of Pins              | : 2          |
| Lead Spacing             | : 3.5mm      |
| Core Material            | : Ferrite    |
| External Depth           | : 9mm        |
| External Length / Height | : 6.5mm      |
| External Width           | : 10mm       |
| Resonant Frequency       | : 100kHz     |
| Series                   | : MCSD106    |

## Electrical Characteristics (at 25°C)

|                                |            |                              |
|--------------------------------|------------|------------------------------|
| 100kHz 0.25V                   | L          | 8mH $\pm 10\%$               |
| at 25°C                        | DCR        | 16Ω (Max.)                   |
| 100kHz 0.25V $I_{rms} = 0.22A$ | $\Delta T$ | Temperature Rise 40°C (Max.) |

Operating temperature: -55°C to +130°C

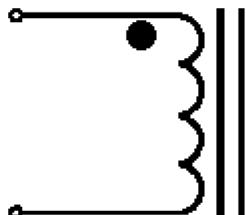
## Material List

| No. | Item               | Material Description         |
|-----|--------------------|------------------------------|
| 1   | Core               | R5A CDR10 × 6.5 (ST) B4.7 F4 |
| 2   | Wire               | Ø0.12mm × 1P 2UEWF 155°C     |
| 3   | Solder (Lead Free) | Sn99.3%/Cu0.7%               |
| 4   | Glue               | TH320                        |

# Inductor

**multicomp**

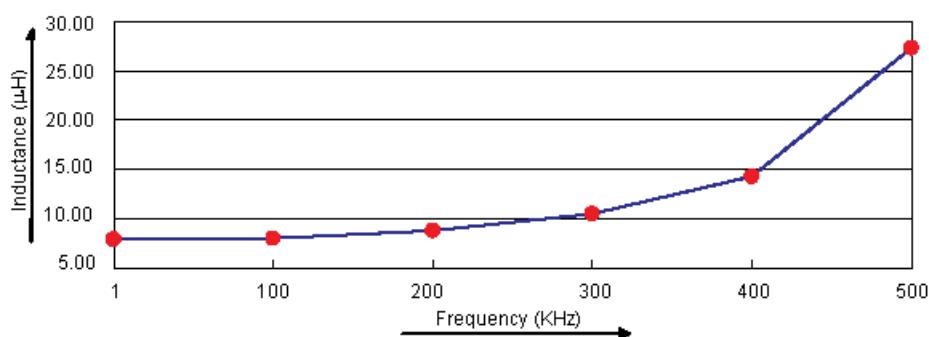
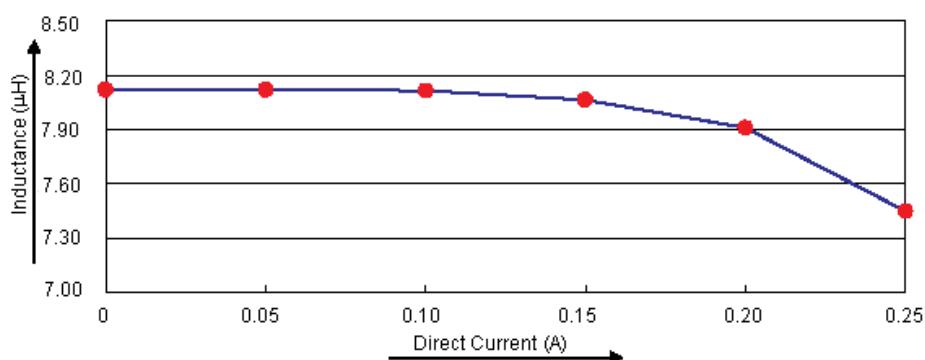
## Schematic Diagram



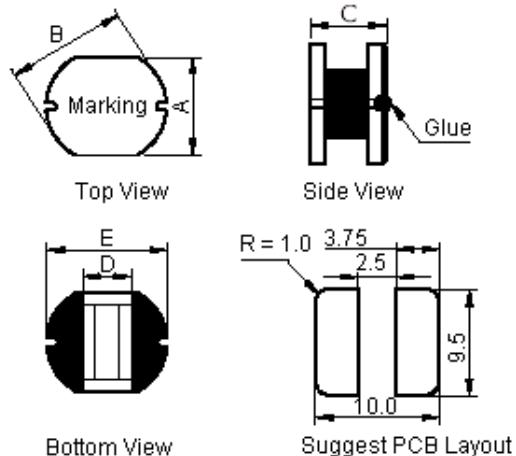
### Note:

1. Wire Ø0.12mm × 1P 2UEWF 155°C
2. 370.5TS (Reference)

## Electric Characteristics



## Configurations and Dimensions



Dimensions : Millimetres

|   |                        |             |
|---|------------------------|-------------|
| A | $9 \pm 0.4\text{mm}$   | -           |
| B | $10 \pm 0.4\text{mm}$  | -           |
| C | $6.5 \pm 0.4\text{mm}$ | -           |
| D | 3.5mm                  | (Reference) |
| E | $10 \pm 0.5\text{mm}$  | -           |

## Part Number Table

| Description                       | Part Number   |
|-----------------------------------|---------------|
| Inductor, 8mH, $\pm 10\%$ , 2Pins | MCSD106-802KU |

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