

Inductor

multicomp



Specifications:

| | |
|--------------------------|--------------|
| Inductance | : 47µH |
| Inductance Tolerance | : $\pm 15\%$ |
| DC Resistance Max | : 0.37Ω |
| DC Current Rating | : 720mA |
| Inductor Case Style | : SMD |
| No. of Pins | : 2 |
| Lead Spacing | : 2mm |
| Core Material | : Ferrite |
| External Depth | : 5.2mm |
| External Length / Height | : 4.5mm |
| External Width | : 5.8mm |
| Resonant Frequency | : 100kHz |
| Series | : MCSD54 |

Electrical Characteristics (at 25°C)

| | | |
|--------------------------------|------------|------------------------------|
| 100kHz 0.25V | L | 47µH $\pm 15\%$ |
| at 25°C | DCR | 0.37mΩ (Max.) |
| 100kHz 0.25V $I_{rms} = 0.72A$ | ΔT | Temperature Rise 40°C (Max.) |

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

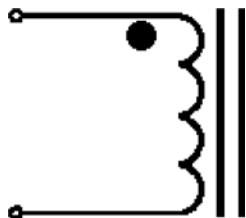
Material List

| No. | Item | Material Description |
|-----|--------------------|--------------------------------|
| 1 | Core | R5A CDR5.8 × 4.5(ST) B2.4 F2.3 |
| 2 | Wire | Ø0.22mm × 1P 2UEWF 155°C |
| 3 | Solder (Lead Free) | Sn99.3%/Cu0.7% |

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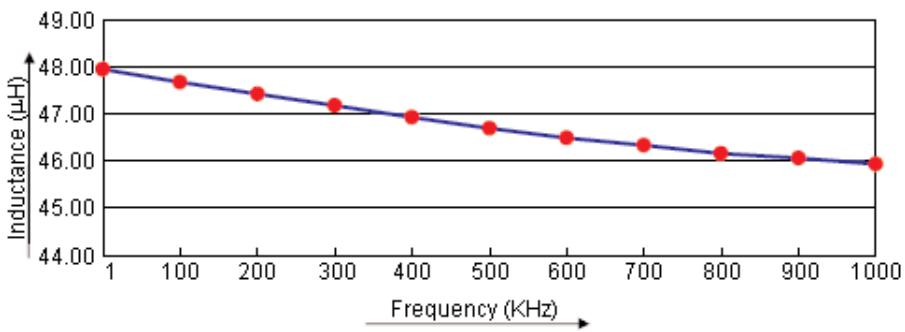
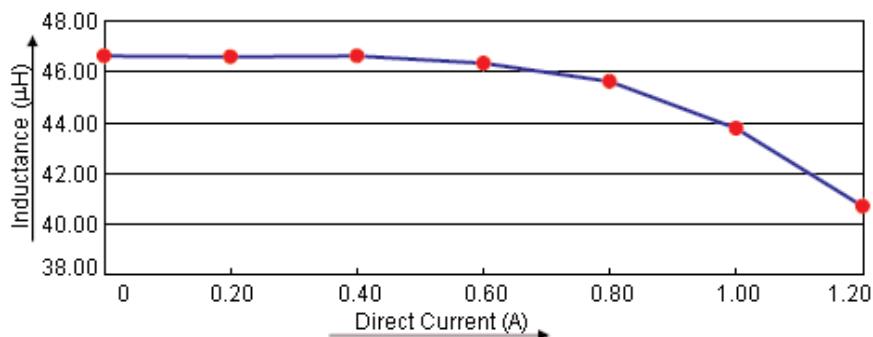
Schematic Diagram



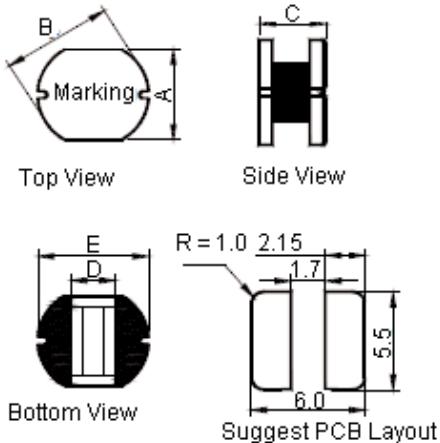
Note:

1. Wire Ø0.22mm × 1P 2UEWF 155°C
2. 41.5TS (Reference)

Electric Characteristics



Configurations and Dimensions



| | | |
|---|------------------|-------------|
| A | 5.2 \pm 0.3mm | - |
| B | 5.8 \pm 0.3mm | - |
| C | 4.5 \pm 0.35mm | - |
| D | 2mm | (Reference) |
| E | 5.8 \pm 0.5mm | - |

Dimensions : Millimetres

Part Number Table

| Description | Part Number |
|--------------------------------|--------------|
| Inductor, 47 μ H, 15%, SMD | MCSD54-470LU |

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