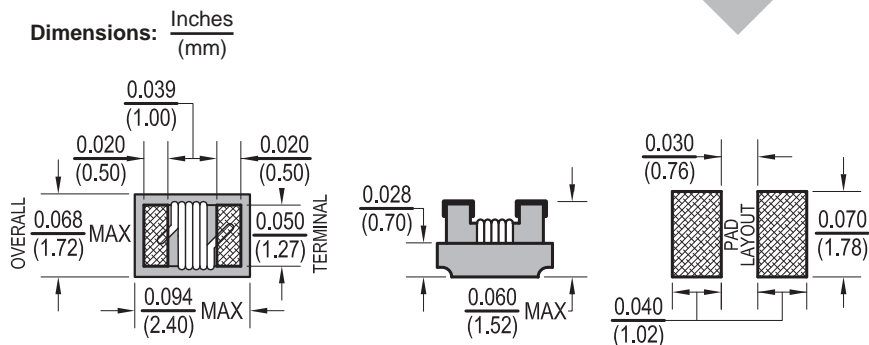


LD05 Ferrite Core Chip Inductors Low Resistance



| Allied Part Number | Inductance (μh) | Tolerance (%) | Q Typ. | Test Freq. (MHz) | SRF Min. (MHz) | DCR Max. ($\Omega \pm 30\%$) | IDC (mA) |
|--------------------|------------------------------|---------------|--------|------------------|----------------|--------------------------------|----------|
| LD05-1R0M-RC | 1.0 | 20 | 18 | 7.96 | 100 | 0.10 | 800 |
| LD05-1R5M-RC | 1.5 | 20 | 18 | 7.96 | 90 | 0.18 | 650 |
| LD05-2R2M-RC | 2.2 | 20 | 18 | 7.96 | 70 | 0.24 | 550 |
| LD05-3R3M-RC | 3.3 | 20 | 18 | 7.96 | 55 | 0.30 | 450 |
| LD05-4R7M-RC | 4.7 | 20 | 18 | 7.96 | 50 | 0.47 | 360 |
| LD05-6R8M-RC | 6.8 | 20 | 18 | 7.96 | 60 | 0.75 | 290 |
| LD05-100M-RC | 10 | 20 | 18 | 7.96 | 25 | 0.90 | 290 |
| LD05-150M-RC | 15 | 20 | 18 | 7.96 | 25 | 1.60 | 230 |
| LD05-220M-RC | 22 | 20 | 18 | 7.96 | 17 | 1.95 | 190 |
| LD05-330M-RC | 33 | 20 | 18 | 7.96 | 15 | 2.60 | 120 |
| LD05-470M-RC | 47 | 20 | 18 | 7.96 | 11 | 3.90 | 95 |
| LD05-680M-RC | 68 | 20 | 18 | 7.96 | 11 | 5.50 | 95 |
| LD05-101M-RC | 100 | 20 | 18 | 7.96 | 9 | 9.00 | 70 |

Available in tighter tolerances.
All specifications subject to change without notice.

Features

- Miniture SMD 0805 wire wound
- Wide inductance range
- Low DC resistance

Electrical

Inductance Range: $1\mu\text{h} \sim 100\mu\text{h}$

Tolerance: 20% over entire range also available in tighter tolerances

Operating Temp: $-25^\circ\text{C} \sim +85^\circ\text{C}$

IDC: Inductance drop 10% from its value without current.

L/Q: Test OSC @ 200mV

Resistance to Soldering Heat

Pre-Heat 150°C , 1 minute.

Solder Composition: Sn/Ag3.0/Cu0.5

Solder Temp: $260^\circ\text{C} \pm 5^\circ\text{C}$ for 10 sec.

Test Equipment

(L/Q): HP4286A/HP4287A/Agilent E4991A

(RDC): Chen Hwa 502BC

(IDC): HP4284A + HP42841A / HP4285A + HP42841A

(SRF): HP8753D / Agilent E4991

Physical

Packaging: 2000 pieces per 7 inch reel.

Marking: None