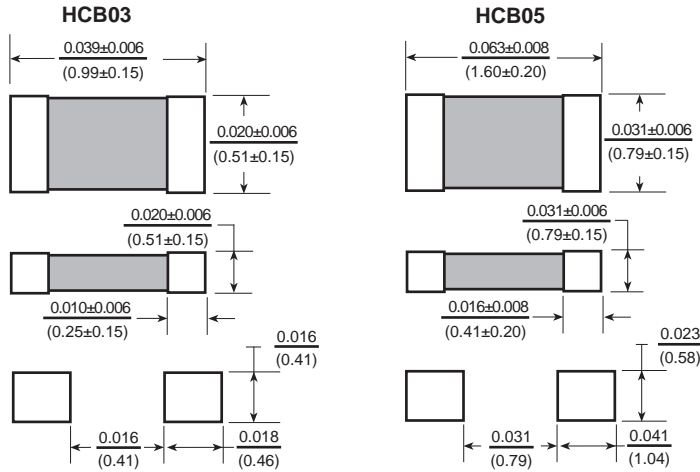


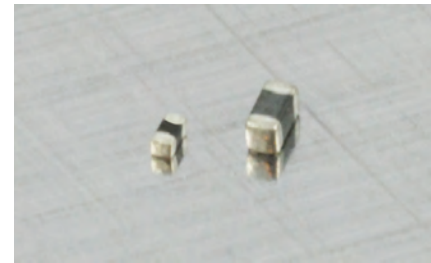


High Current Beads

HCB03 thru 05



Dimensions: $\frac{\text{Inches}}{\text{(mm)}}$



Features

- 0402 & 0603 Surface mount EMI suppression components
- Nickel barrier termination for excellent resistance to solder heat
- High current capacity
- Wide range of impedance values
- Multi layer technology
- Low DCR
- Flow and reflow soldering

Electrical

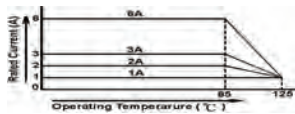
Impedance Range: HCB03 10Ω to 120Ω
HCB05 10Ω to 1500Ω

Tolerance: 25% over entire range

Operating Temp: -55°C ~ +125°C

Storage Temp: Under 25°C at 40~60% Humidity

Rate Current: Based on temp rise not to exceed 30°C
Rate current is derated as indicated below based on operating temp.



Resistance to Solder Heat

Pre-Heat 150°C, 1 minute

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

Solder Temp: 260±5°C for 10sec ±1 sec.

Minimum of 75% of Electrode covered with new solder.

Impedance within 30% of initial value.

Test Equipment

(Z): HP4291A RF Impedance/Material Analyzer

(RDC): Chen Hwa 502BC

Physical

Packaging: HCB03 - 10000 per 7 inch reel.

HCB05 - 4000 per 7 inch reel.

Marking: None

| Allied Part Number | Impedance (Ω) @ 100 MHz +/- 25% | DC Resistance (Ω) Max. | Rated Current (mA) |
|--------------------|---------------------------------|------------------------|--------------------|
| HCB03 | | | |
| HCB03-100-RC | 10 | 0.03 | 2000 |
| HCB03-300-RC | 30 | 0.05 | 1700 |
| HCB03-400-RC | 40 | .075 | 1500 |
| HCB03-600-RC | 60 | .075 | 1500 |
| HCB03-700-RC | 70 | 0.09 | 1200 |
| HCB03-800-RC | 80 | 0.09 | 1200 |
| HCB03-121-RC | 120 | 0.09 | 1200 |
| HCB05 | | | |
| HCB05-100-RC | 10 | 0.02 | 4000 |
| HCB05-110-RC | 11 | 0.02 | 4000 |
| HCB05-150-RC | 15 | 0.03 | 3000 |
| HCB05-170-RC | 17 | 0.03 | 3000 |
| HCB05-190-RC | 19 | 0.03 | 3000 |
| HCB05-200-RC | 20 | 0.03 | 3000 |
| HCB05-220-RC | 22 | 0.03 | 3000 |
| HCB05-250-RC | 25 | 0.03 | 3000 |
| HCB05-300-RC | 30 | 0.03 | 3000 |
| HCB05-310-RC | 31 | 0.03 | 3000 |
| HCB05-320-RC | 32 | .035 | 3000 |
| HCB05-330-RC | 33 | .035 | 3000 |
| HCB05-400-RC | 40 | .035 | 3000 |
| HCB05-470-RC | 47 | 0.04 | 3000 |
| HCB05-500-RC | 50 | 0.04 | 3000 |
| HCB05-560-RC | 56 | 0.04 | 3000 |
| HCB05-600-RC | 60 | 0.04 | 3000 |
| HCB05-680-RC | 68 | 0.05 | 2500 |
| HCB05-700-RC | 70 | 0.05 | 2500 |
| HCB05-750-RC | 75 | 0.05 | 2500 |
| HCB05-800-RC | 80 | 0.05 | 2500 |
| HCB05-900-RC | 90 | 0.05 | 2500 |
| HCB05-101-RC | 100 | 0.05 | 2500 |
| HCB05-121-RC | 120 | 0.08 | 2500 |
| HCB05-151-RC | 150 | .085 | 2000 |
| HCB05-181-RC | 180 | .090 | 2000 |
| HCB05-201-RC | 200 | .095 | 2000 |
| HCB05-221-RC | 220 | 0.10 | 2000 |
| HCB05-241-RC | 240 | 0.12 | 1500 |
| HCB05-301-RC | 300 | 0.12 | 1500 |
| HCB05-331-RC | 330 | 0.12 | 1500 |
| HCB05-401-RC | 400 | 0.12 | 1500 |
| HCB05-451-RC | 450 | 0.15 | 1500 |
| HCB05-471-RC | 470 | 0.15 | 1500 |
| HCB05-501-RC | 500 | 0.15 | 1200 |
| HCB05-601-RC | 600 | 0.20 | 1000 |
| HCB05-701-RC | 700 | 0.25 | 800 |
| HCB05-751-RC | 750 | 0.25 | 800 |
| HCB05-801-RC | 800 | 0.25 | 800 |
| HCB05-102-RC | 1000 | 0.25 | 800 |
| HCB05-152-RC | 1500 | 0.40 | 500 |

All specifications subject to change without notice.