

RCB0608P SERIES ~ Through Hole Power Inductors



RoHS Compliant

PART NUMBERING SYSTEM

| | | | | | |
|------------|--------------|---|-------------|---|-----------|
| RCB | 0608P | — | 680K | — | LF |
| TYPE | DIMENSIONS | | INDUCTANCE | | LEAD FREE |

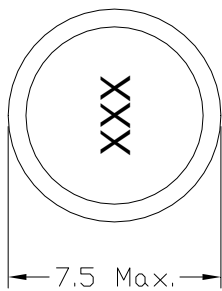
U : UL Tube

P : PET Tube

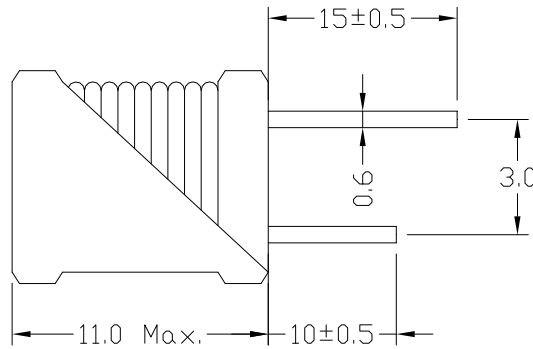
SHAPES AND DIMENSIONS

UNIT : mm

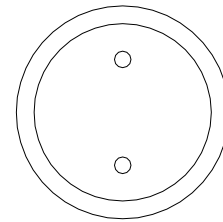
TOP VIEW



FRONT VIEW



BOTTOM VIEW



STRUCTURAL DIAGRAM :

| | COMPONENT | MATERIALS |
|--------|-------------|------------------------------------|
| | 1.Core | Ferrite core |
| | 2.Wire | Polyurethane enameled copper wires |
| | 3.Lead wire | Tinned copper wires |
| | 4.Tube | Heat shrinkable tube, PET or UL |
| 5.Glue | Epoxy resin | |

FEATURES :

1. **Low cost, high efficiency** option for choke applications
2. Inductance values from **68uH to 47,000 μH**
3. Industry standard **3.5 mm lead spacing**
4. **RoHS-compliant.**

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SPECIFICATION TABLE

| PART NUMBER | INDUCTANCE (μ H) | Q (Min.) | DCR (Ω) (Max.) | IDC (mA) (Max.) | SRF(MHz) (Min.) | TEST FREQ. (f) |
|------------------|--------------------------|-------------|----------------------------|--------------------|--------------------|-------------------|
| RCB0608P-680K-LF | 68 \pm 10% | 20 | 0.37 | 750 | 7.0 | 2.52MHz |
| RCB0608P-820K-LF | 82 \pm 10% | 20 | 0.39 | 740 | 6.5 | 2.52MHz |
| RCB0608P-101K-LF | 100 \pm 10% | 30 | 0.44 | 710 | 5.7 | 796KHz |
| RCB0608P-121K-LF | 120 \pm 10% | 30 | 0.64 | 680 | 5.2 | 796KHz |
| RCB0608P-151K-LF | 150 \pm 10% | 35 | 0.73 | 600 | 4.7 | 796KHz |
| RCB0608P-181K-LF | 180 \pm 10% | 35 | 0.82 | 540 | 4.2 | 796KHz |
| RCB0608P-221K-LF | 220 \pm 10% | 35 | 0.92 | 450 | 3.7 | 796KHz |
| RCB0608P-271K-LF | 270 \pm 10% | 30 | 1.3 | 420 | 3.5 | 796KHz |
| RCB0608P-331K-LF | 330 \pm 10% | 40 | 1.5 | 400 | 3.2 | 796KHz |
| RCB0608P-391K-LF | 390 \pm 10% | 25 | 1.8 | 370 | 2.9 | 796KHz |
| RCB0608P-471K-LF | 470 \pm 10% | 35 | 2.3 | 340 | 2.4 | 796KHz |
| RCB0608P-561K-LF | 560 \pm 10% | 35 | 3.0 | 280 | 2.2 | 796KHz |
| RCB0608P-681K-LF | 680 \pm 10% | 45 | 3.25 | 250 | 2.0 | 796KHz |
| RCB0608P-821K-LF | 820 \pm 10% | 40 | 4.16 | 230 | 1.6 | 796KHz |
| RCB0608P-102K-LF | 1000 \pm 10% | 80 | 4.55 | 210 | 1.5 | 252MHz |
| RCB0608P-122K-LF | 1200 \pm 10% | 80 | 5.20 | 200 | 1.4 | 252MHz |
| RCB0608P-152K-LF | 1500 \pm 10% | 75 | 7.54 | 180 | 1.3 | 252MHz |
| RCB0608P-182K-LF | 1800 \pm 10% | 80 | 7.54 | 160 | 1.2 | 252MHz |
| RCB0608P-222K-LF | 2200 \pm 10% | 80 | 8.32 | 150 | 1.1 | 252MHz |
| RCB0608P-272K-LF | 2700 \pm 10% | 80 | 9.62 | 130 | 1.0 | 252MHz |
| RCB0608P-332K-LF | 3300 \pm 10% | 80 | 10.92 | 130 | 0.85 | 252MHz |
| RCB0608P-392K-LF | 3900 \pm 10% | 80 | 16.12 | 100 | 0.78 | 252MHz |
| RCB0608P-472K-LF | 4700 \pm 10% | 80 | 17.81 | 85 | 0.68 | 252MHz |
| RCB0608P-562K-LF | 5600 \pm 10% | 80 | 20.0 | 70 | 0.62 | 252MHz |
| RCB0608P-682K-LF | 6800 \pm 10% | 80 | 27.3 | 65 | 0.61 | 252MHz |
| RCB0608P-822K-LF | 8200 \pm 10% | 80 | 31.2 | 60 | 0.60 | 252MHz |
| RCB0608P-103K-LF | 10000 \pm 10% | 80 | 39.0 | 58 | 0.48 | 79.6KHz |
| RCB0608P-123K-LF | 12000 \pm 10% | 80 | 42.9 | 56 | 0.44 | 79.6KHz |
| RCB0608P-153K-LF | 15000 \pm 10% | 70 | 65.0 | 53 | 0.35 | 79.6KHz |
| RCB0608P-183K-LF | 18000 \pm 10% | 75 | 72.8 | 50 | 0.30 | 79.6KHz |
| RCB0608P-223K-LF | 22000 \pm 10% | 80 | 82.55 | 46 | 0.28 | 79.6KHz |
| RCB0608P-273K-LF | 27000 \pm 10% | 80 | 95.42 | 42 | 0.25 | 79.6KHz |
| RCB0608P-333K-LF | 33000 \pm 10% | 70 | 135.2 | 38 | 0.23 | 79.6KHz |
| RCB0608P-393K-LF | 39000 \pm 10% | 70 | 154.7 | 37 | 0.20 | 79.6KHz |
| RCB0608P-473K-LF | 47000 \pm 10% | 70 | 172.9 | 35 | 0.16 | 79.6KHz |

- DC current at which the inductance drops 10% (typ) from its value without current.
- Operating temperature range -40°C to +85°C.
- Electrical specifications at 25°C.