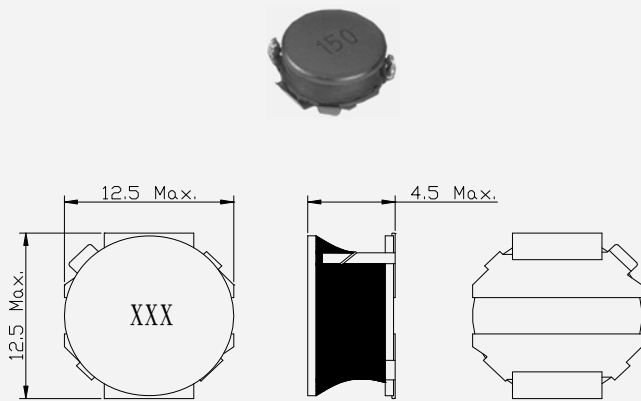


## SMT Power Inductors

### SQH124CS



- Size : 12.5x12.5x4.5 (mm)
- Core material : Ferrite + Magnetics Epoxy
- Magnetically shielded
- RoHS-compatible
- Terminals : Lead-free tinned
- Solderability : Reflow soldering
- Marking : L value (μH, coded)
- Delivery mode : Tape & reel packing
- Packing unit : 400 pcs/reel

| INDUCTANCE<br>(μH) | Tolerance | f <sub>L</sub><br>MHz | IDC (A)<br>(Max.) | DCR (Ω)<br>(Max.) | Ordering code    |
|--------------------|-----------|-----------------------|-------------------|-------------------|------------------|
| 3.9                | ±30%=N    | 0.1                   | 6.50              | 0.015             | SQH124CS-3R9N-LF |
| 4.7                |           | 0.1                   | 5.70              | 0.018             | SQH124CS-4R7N-LF |
| 6.8                |           | 0.1                   | 4.90              | 0.023             | SQH124CS-6R8N-LF |
| 8.2                |           | 0.1                   | 4.60              | 0.026             | SQH124CS-8R2N-LF |
| 10                 | ±20%=M    | 0.1                   | 4.50              | 0.028             | SQH124CS-100M-LF |
| 12                 |           | 0.1                   | 4.00              | 0.038             | SQH124CS-120M-LF |
| 15                 |           | 0.1                   | 3.20              | 0.050             | SQH124CS-150M-LF |
| 18                 |           | 0.1                   | 3.10              | 0.057             | SQH124CS-180M-LF |
| 22                 |           | 0.1                   | 2.90              | 0.066             | SQH124CS-220M-LF |
| 27                 |           | 0.1                   | 2.80              | 0.080             | SQH124CS-270M-LF |
| 33                 |           | 0.1                   | 2.70              | 0.097             | SQH124CS-330M-LF |
| 39                 |           | 0.1                   | 2.10              | 0.132             | SQH124CS-390M-LF |
| 47                 |           | 0.1                   | 1.90              | 0.160             | SQH124CS-470M-LF |
| 56                 |           | 0.1                   | 1.80              | 0.190             | SQH124CS-560M-LF |
| 68                 |           | 0.1                   | 1.50              | 0.220             | SQH124CS-680M-LF |
| 82                 |           | 0.1                   | 1.30              | 0.260             | SQH124CS-820M-LF |
| 100                |           | 0.1                   | 1.20              | 0.308             | SQH124CS-101M-LF |
| 120                |           | 0.1                   | 1.10              | 0.380             | SQH124CS-121M-LF |
| 150                |           | 0.1                   | 0.95              | 0.530             | SQH124CS-151M-LF |
| 180                |           | 0.1                   | 0.85              | 0.620             | SQH124CS-181M-LF |
| 220                |           | 0.1                   | 0.80              | 0.700             | SQH124CS-221M-LF |
| 270                |           | 0.1                   | 0.60              | 0.870             | SQH124CS-271M-LF |
| 330                |           | 0.1                   | 0.50              | 0.990             | SQH124CS-331M-LF |

- DC current at which the inductance drops 25% (typ) from its value without current.
- Operating temperature range -40°C to +125°C. Electrical specifications at 25°C.