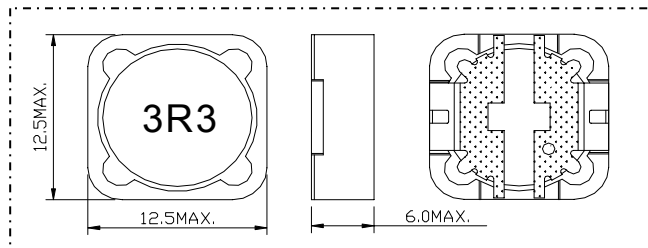


## EDRH125B

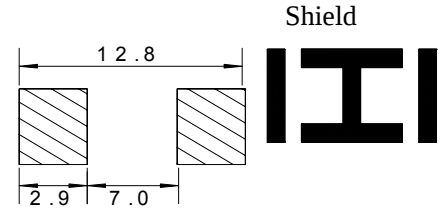
**Inductance Range:** 3.3μH~1000μH

**Temperature Range:** -40℃~+105℃

### DIMENSIONS(mm)



LAND PATTERNS(mm) CONSTRUCTION



### FEATURES:

- ★Quantity / Reel: 500pcs
- ★High current & low DCR, Quadrate 12.5mm Max, Height 6.0mm Max.
- ★The use of carrier tape package for SMT reflow soldering process
- ★Widely use in DC-DC converter/LCD TV/Notebook/ PDA /Digital camera/DVD etc.
- ★Design to customer requirement

RoHS Compliant(SGS Certified Result)

| Pb       | Cd | Cr+6 | PBBs | PBDEs |
|----------|----|------|------|-------|
| <1000ppm | ND | ND   | ND   | ND    |



### Electrical Characteristics:

| Part Number     | Test Condition | Inductance (μH) | Tolerance (%) | D.C.R(Ω) Max. | Isat1(A) @L-Drop10% (Max.) | Isat2(A) @L-Drop35% (Max.) | I rms(A) @ΔT=40℃ (Max.) |
|-----------------|----------------|-----------------|---------------|---------------|----------------------------|----------------------------|-------------------------|
| EDRH125B-3R3M,N | 100KHz/0.3V    | 3.3             | ±20,±30       | 15m           | 12.20                      | 13.20                      | 8.20                    |
| EDRH125B-3R9M,N | 100KHz/0.3V    | 3.9             | ±20,±30       | 16m           | 11.00                      | 12.20                      | 7.80                    |
| EDRH125B-4R7M,N | 100KHz/0.3V    | 4.7             | ±20,±30       | 17m           | 10.50                      | 11.30                      | 7.50                    |
| EDRH125B-5R6M,N | 100KHz/0.3V    | 5.6             | ±20,±30       | 18m           | 9.40                       | 10.00                      | 6.70                    |
| EDRH125B-6R8M,N | 100KHz/0.3V    | 6.8             | ±20,±30       | 20m           | 8.50                       | 9.30                       | 6.40                    |
| EDRH125B-8R2M,N | 100KHz/0.3V    | 8.2             | ±20,±30       | 22m           | 7.50                       | 8.40                       | 6.10                    |
| EDRH125B-100M   | 1KHz/0.3V      | 10              | ±20           | 24m           | 7.00                       | 8.00                       | 5.75                    |
| EDRH125B-120M   | 1KHz/0.3V      | 12              | ±20           | 28m           | 6.60                       | 7.50                       | 5.30                    |
| EDRH125B-150M   | 1KHz/0.3V      | 15              | ±20           | 30m           | 6.00                       | 6.60                       | 5.00                    |
| EDRH125B-180M   | 1KHz/0.3V      | 18              | ±20           | 37m           | 5.40                       | 6.00                       | 4.70                    |
| EDRH125B-220M   | 1KHz/0.3V      | 22              | ±20           | 42m           | 4.80                       | 5.50                       | 4.40                    |
| EDRH125B-270M   | 1KHz/0.3V      | 27              | ±20           | 51m           | 4.50                       | 5.00                       | 4.00                    |
| EDRH125B-330M   | 1KHz/0.3V      | 33              | ±20           | 63m           | 4.00                       | 4.50                       | 3.63                    |
| EDRH125B-390M   | 1KHz/0.3V      | 39              | ±20           | 78m           | 3.50                       | 4.00                       | 3.20                    |
| EDRH125B-470M   | 1KHz/0.3V      | 47              | ±20           | 87m           | 3.30                       | 3.60                       | 3.00                    |
| EDRH125B-560M   | 1KHz/0.3V      | 56              | ±20           | 104m          | 3.00                       | 3.30                       | 2.70                    |
| EDRH125B-680M   | 1KHz/0.3V      | 68              | ±20           | 125m          | 2.75                       | 3.00                       | 2.50                    |
| EDRH125B-820M   | 1KHz/0.3V      | 82              | ±20           | 145m          | 2.40                       | 2.70                       | 2.20                    |
| EDRH125B-101M   | 1KHz/0.3V      | 100             | ±20           | 0.180         | 2.30                       | 2.55                       | 1.90                    |
| EDRH125B-121M   | 1KHz/0.3V      | 120             | ±20           | 0.210         | 2.00                       | 2.30                       | 1.70                    |
| EDRH125B-151M   | 1KHz/0.3V      | 150             | ±20           | 0.270         | 1.85                       | 2.05                       | 1.50                    |
| EDRH125B-181M   | 1KHz/0.3V      | 180             | ±20           | 0.310         | 1.65                       | 1.85                       | 1.35                    |
| EDRH125B-221M   | 1KHz/0.3V      | 220             | ±20           | 0.370         | 1.50                       | 1.75                       | 1.25                    |
| EDRH125B-271M   | 1KHz/0.3V      | 270             | ±20           | 0.470         | 1.38                       | 1.58                       | 1.10                    |
| EDRH125B-331M   | 1KHz/0.3V      | 330             | ±20           | 0.580         | 1.25                       | 1.40                       | 1.00                    |
| EDRH125B-391M   | 1KHz/0.3V      | 390             | ±20           | 0.680         | 1.15                       | 1.30                       | 0.92                    |
| EDRH125B-471M   | 1KHz/0.3V      | 470             | ±20           | 0.820         | 1.05                       | 1.20                       | 0.83                    |
| EDRH125B-561M   | 1KHz/0.3V      | 560             | ±20           | 0.960         | 0.98                       | 1.08                       | 0.76                    |
| EDRH125B-681M   | 1KHz/0.3V      | 680             | ±20           | 1.200         | 0.88                       | 0.98                       | 0.69                    |
| EDRH125B-821M   | 1KHz/0.3V      | 820             | ±20           | 1.400         | 0.78                       | 0.88                       | 0.64                    |
| EDRH125B-102M   | 1KHz/0.3V      | 1000            | ±20           | 1.940         | 0.68                       | 0.78                       | 0.56                    |

1. Inductance is measured with a LCR meter:HP4284A & 3532-50 or equivalent.
2. D.C .R is measured with a Digital Multimeter TH2512B or equivalent.
3. The Isat1 is the current at which the inductance decreases by 10% from the initial value
4. The Isat2 is the current at which the inductance decreases by 35% from the initial value
5. The I rms by Stand-Type is the current at which the temperature rise is ΔT≤40℃, whichever (Ta=20℃)