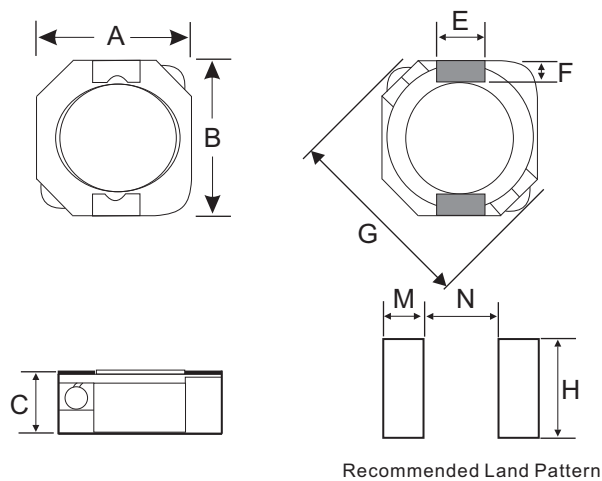


# Shielded Power Inductor



Dimensions and Footprint (Unit:mm)

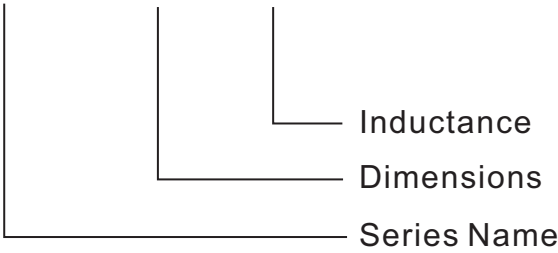
| Type    | A(Max) | B(Max) | C(Max) | G(Max) | E | F   | H(Ref.) | M(Ref.) | N(Ref.) |
|---------|--------|--------|--------|--------|---|-----|---------|---------|---------|
| DRH63R  | 6.2    | 6.3    | 3      | 8.8    | 2 | 0.6 | 2.2     | 1       | 4.8     |
| DRH103R | 10.3   | 10.5   | 3.1    | 13.5   | 3 | 1.2 | 3.2     | 1.6     | 7.3     |
| DRH104R | 10.3   | 10.5   | 4      | 13.5   | 3 | 1.2 | 3.2     | 1.6     | 7.3     |
| DRH105R | 10.3   | 10.5   | 5.1    | 13.5   | 3 | 1.2 | 3.2     | 1.6     | 7.3     |

## Description

- SMD type power inductors where by the electrode is attached to the ferrite core directly.
- Power supply for VTR, OA equipment Digital camera, LCD television set notebook PC,DC/DC converters,etc .

## Part Number Code

DRH 103R-100M



## Electrical Specifications-DRH63R

| P/N         | INDUCTANCE<br>( $\mu$ H) | DCR(Max)<br>( $\Omega$ ) | IDC(Max)<br>(A) | TEST FREQ<br>(kHz) |
|-------------|--------------------------|--------------------------|-----------------|--------------------|
| DRH63R-2R5N | 2.5 $\pm$ 30%            | 0.018                    | 2.60            | 100                |
| DRH63R-3R3N | 3.3 $\pm$ 30%            | 0.020                    | 2.30            | 100                |
| DRH63R-4R0N | 4 $\pm$ 30%              | 0.027                    | 2.10            | 100                |
| DRH63R-5R0N | 5 $\pm$ 30%              | 0.031                    | 1.85            | 100                |
| DRH63R-6R0N | 6 $\pm$ 30%              | 0.042                    | 1.70            | 100                |
| DRH63R-8R0N | 8 $\pm$ 30%              | 0.050                    | 1.50            | 100                |
| DRH63R-100M | 10 $\pm$ 20%             | 0.054                    | 1.30            | 100                |
| DRH63R-120M | 12 $\pm$ 20%             | 0.072                    | 1.20            | 100                |
| DRH63R-150M | 15 $\pm$ 20%             | 0.082                    | 1.10            | 100                |
| DRH63R-180M | 18 $\pm$ 20%             | 0.102                    | 1.05            | 100                |
| DRH63R-220M | 22 $\pm$ 20%             | 0.119                    | 0.95            | 100                |
| DRH63R-270M | 27 $\pm$ 20%             | 0.146                    | 0.85            | 100                |
| DRH63R-330M | 33 $\pm$ 20%             | 0.183                    | 0.76            | 100                |
| DRH63R-390M | 39 $\pm$ 20%             | 0.210                    | 0.68            | 100                |
| DRH63R-470M | 47 $\pm$ 20%             | 0.230                    | 0.60            | 100                |
| DRH63R-560M | 56 $\pm$ 20%             | 0.305                    | 0.55            | 100                |
| DRH63R-680M | 68 $\pm$ 20%             | 0.351                    | 0.48            | 100                |
| DRH63R-820M | 82 $\pm$ 20%             | 0.419                    | 0.45            | 100                |
| DRH63R-101M | 100 $\pm$ 20%            | 0.520                    | 0.40            | 100                |

- Special inquiries besides the above common used types can be meet on your requirement.
- $\Delta L/L = -35\%$ ,  $\Delta t = 40^\circ\text{C}$ .

## Electrical Specifications-DRH103R

| P/N          | INDUCTANCE<br>(uH) | DCR(Max)<br>(Ω) | IDC(Max)<br>(A) | TEST FREQ<br>(kHz) |
|--------------|--------------------|-----------------|-----------------|--------------------|
| DRH103R-100M | 10±20%             | 0.058           | 2.70            | 100                |
| DRH103R-120M | 12±20%             | 0.072           | 2.25            | 100                |
| DRH103R-150M | 15±20%             | 0.086           | 2.22            | 100                |
| DRH103R-180M | 18±20%             | 0.116           | 1.90            | 100                |
| DRH103R-220M | 22±20%             | 0.145           | 1.78            | 100                |
| DRH103R-270M | 27±20%             | 0.175           | 1.63            | 100                |
| DRH103R-330M | 33±20%             | 0.213           | 1.16            | 100                |
| DRH103R-390M | 39±20%             | 0.269           | 1.32            | 100                |
| DRH103R-470M | 47±20%             | 0.299           | 1.18            | 100                |
| DRH103R-560M | 56±20%             | 0.336           | 1.10            | 100                |
| DRH103R-680M | 68±20%             | 0.451           | 1.04            | 100                |
| DRH103R-820M | 82±20%             | 0.534           | 0.94            | 100                |
| DRH103R-101M | 100±20%            | 0.700           | 0.84            | 100                |
| DRH103R-121M | 120±20%            | 0.765           | 0.76            | 100                |
| DRH103R-151M | 150±20%            | 0.876           | 0.70            | 100                |

## Electrical Specifications-DRH104R

| P/N          | INDUCTANCE<br>(uH) | DCR(Max)<br>(Ω) | IDC(Max)<br>(A) | TEST FREQ<br>(kHz) |
|--------------|--------------------|-----------------|-----------------|--------------------|
| DRH104R-1R3N | 1.3±30%            | 0.008           | 10.00           | 100                |
| DRH104R-2R5N | 2.5±30%            | 0.010           | 7.50            | 100                |
| DRH104R-3R8N | 3.8±30%            | 0.013           | 6.00            | 100                |
| DRH104R-5R2N | 5.2±30%            | 0.022           | 5.50            | 100                |
| DRH104R-7R0N | 7±30%              | 0.027           | 4.80            | 100                |
| DRH104R-100M | 10±20%             | 0.035           | 4.40            | 100                |
| DRH104R-150M | 15±20%             | 0.050           | 3.60            | 100                |
| DRH104R-220M | 22±20%             | 0.073           | 2.90            | 100                |
| DRH104R-330M | 33±20%             | 0.093           | 2.30            | 100                |
| DRH104R-470M | 47±20%             | 0.128           | 2.10            | 100                |
| DRH104R-680M | 68±20%             | 0.213           | 1.50            | 100                |
| DRH104R-101M | 100±20%            | 0.304           | 1.35            | 100                |
| DRH104R-151M | 150±20%            | 0.506           | 1.15            | 100                |
| DRH104R-221M | 220±20%            | 0.756           | 0.92            | 100                |
| DRH104R-331M | 330±20%            | 1.090           | 0.70            | 100                |

## Electrical Specifications-DRH105R

| P/N          | INDUCTANCE<br>( $\mu$ H) | DCR(Max)<br>( $\Omega$ ) | IDC(Max)<br>(A) | TEST FREQ<br>(kHz) |
|--------------|--------------------------|--------------------------|-----------------|--------------------|
| DRH105R-100M | 10 $\pm$ 20%             | 0.025                    | 3.45            | 100                |
| DRH105R-120M | 12 $\pm$ 20%             | 0.032                    | 3.40            | 100                |
| DRH105R-150M | 15 $\pm$ 20%             | 0.040                    | 2.83            | 100                |
| DRH105R-180M | 18 $\pm$ 20%             | 0.046                    | 2.62            | 100                |
| DRH105R-220M | 22 $\pm$ 20%             | 0.058                    | 2.44            | 100                |
| DRH105R-270M | 27 $\pm$ 20%             | 0.065                    | 2.24            | 100                |
| DRH105R-330M | 33 $\pm$ 20%             | 0.081                    | 1.88            | 100                |
| DRH105R-390M | 39 $\pm$ 20%             | 0.103                    | 1.70            | 100                |
| DRH105R-470M | 47 $\pm$ 20%             | 0.12                     | 1.56            | 100                |
| DRH105R-560M | 56 $\pm$ 20%             | 0.14                     | 1.39            | 100                |
| DRH105R-680M | 68 $\pm$ 20%             | 0.19                     | 1.36            | 100                |
| DRH105R-820M | 82 $\pm$ 20%             | 0.22                     | 1.20            | 100                |
| DRH105R-101M | 100 $\pm$ 20%            | 0.25                     | 1.09            | 100                |
| DRH105R-121M | 120 $\pm$ 20%            | 0.30                     | 1.00            | 100                |
| DRH105R-151M | 150 $\pm$ 20%            | 0.36                     | 0.91            | 100                |
| DRH105R-181M | 180 $\pm$ 20%            | 0.39                     | 0.84            | 100                |
| DRH105R-221M | 220 $\pm$ 20%            | 0.48                     | 0.75            | 100                |
| DRH105R-271M | 270 $\pm$ 20%            | 0.63                     | 0.68            | 100                |
| DRH105R-331M | 330 $\pm$ 20%            | 0.78                     | 0.60            | 100                |
| DRH105R-391M | 390 $\pm$ 20%            | 0.95                     | 0.57            | 100                |
| DRH105R-471M | 470 $\pm$ 20%            | 1.22                     | 0.50            | 100                |
| DRH105R-561M | 560 $\pm$ 20%            | 1.35                     | 0.47            | 100                |
| DRH105R-681M | 680 $\pm$ 20%            | 1.51                     | 0.43            | 100                |
| DRH105R-821M | 820 $\pm$ 20%            | 1.69                     | 0.39            | 100                |
| DRH105R-102M | 1000 $\pm$ 20%           | 1.95                     | 0.35            | 100                |

- Special inquiries besides the above common used types can be meet on your requirement.
- $\Delta L/L = -35\%$ ,  $\Delta t = 40^\circ\text{C}$ .