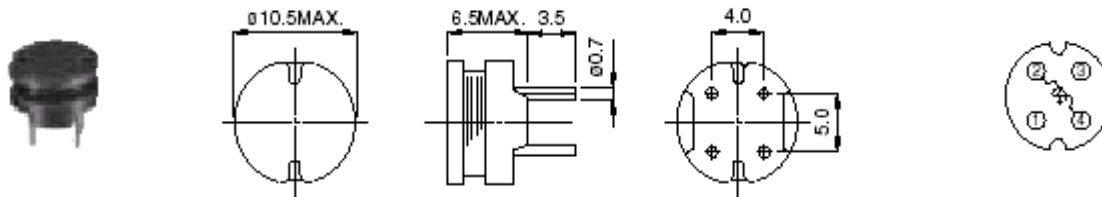


# RCH Series Power Inductors

RCH-106

## Dimensions(mm)



## Specifications

| Parts No. | Inductance | DCR.(Max) Typical /Rated DC. Current (A) | Parts No. | Inductance | DCR.(Max) Typical /Rated DC. Current (A) |
|-----------|------------|--|-----------|------------|--|
| 6R3       | 6.3uH      |  | 561       | 560uH      | 1.900(1.430)/0.48                        |
| 7R5       | 7.5uH      |  | 681       | 680uH      | 2.200(1.680)/0.43                        |
| 8R8       | 8.8uH      |  | 821       | 820uH      | 2.600(1.930)/0.40                        |
| 100       | 10uH       | 0.040(0.026)/3.60                        | 102       | 1.0mH      | 3.200(2.440)/0.36                        |
| 120       | 12uH       | 0.044(0.029)/3.30                        | 122       | 1.2mH      |  |
| 150       | 15uH       | 0.058(0.040)/2.90                        | 152       | 1.5mH      |  |
| 180       | 18uH       | 0.064(0.043)/2.70                        | 182       | 1.8mH      |  |
| 220       | 22uH       | 0.088(0.060)/2.40                        | 222       | 2.2mH      |  |
| 270       | 27uH       | 0.100(0.069)/2.20                        | 272       | 2.7mH      |  |
| 330       | 33uH       | 0.110(0.077)/2.00                        | 332       | 3.3mH      |  |
| 390       | 39uH       | 0.140(0.110)/1.80                        | 392       | 3.9mH      |  |
| 470       | 47uH       | 0.160(0.120)/1.70                        | 472       | 4.7mH      |  |
| 560       | 56uH       | 0.190(0.130)/1.50                        | 562       | 5.6mH      |  |
| 680       | 68uH       | 0.220(0.150)/1.40                        | 682       | 6.8mH      |  |
| 820       | 82uH       | 0.290(0.200)/1.30                        | 822       | 8.2mH      |  |
| 101       | 100uH      | 0.320(0.240)/1.30                        | 103       | 10mH       |  |
| 121       | 120uH      | 0.380(0.270)/1.20                        | 123       | 12mH       |  |
| 151       | 150uH      | 0.500(0.360)/1.00                        | 153       | 15mH       |  |
| 181       | 180uH      | 0.560(0.420)/0.84                        | 183       | 18mH       |  |
| 221       | 220uH      | 0.780(0.560)/0.76                        | 223       | 22mH       |  |
| 271       | 270uH      | 0.920(0.670)/0.69                        | 273       | 27mH       |  |
| 331       | 330uH      | 1.100(0.760)/0.62                        | 333       | 33mH       |  |
| 391       | 390uH      | 1.300(0.940)/0.57                        | 393       | 39mH       |  |
| 471       | 470uH      | 1.500(1.090)/0.52                        | 473       | 47mH       |  |

Tolerance of Inductance: 10uH-27uH  $\pm 20\%$  (M); 33uH-1.0mH  $\pm 10\%$  (K)

Test Frequency:L 10uH-82uH (2.52MHz); 100uH-47mH (1KHz).

This indicates the value of the current when the inductance is 10% lower than its initial value at D.C. superimposition or D.C. current when at  $t=40^{\circ}\text{C}$ , whichever is lower. ( $T_a=20^{\circ}\text{C}$ )