



# LQH1210 SERIES

## High Current SMD Wire Wound Inductors

### FEATURES

- Ferrite Core
- High Frequency Design
- Lower DCR permits High Idc
- Available in E12 series
- Excellent Q SRF Values
- Lead free versions
- Excellent Thermal Stability

### OPTIONS

- Tape & Reel is Standard (Qty : 2000pcs.)
- Bulk packaging Available for Smaller Quantities
- Tolerance:K=10%,M=20% is Standard, Tighter Tolerances Available

### APPLICATIONS

- Modems PDP, LCD TVs convertor
- Mobile Radios DC/DC convertor
- Cordless Telephones Car radios
- Global Positioning Systems
- Wireless Communications Equipment
- Networking System,xDSL Filter
- Computer Products and Peripherals

| Part Number (LQH 1008 Series) | L (µH) | L Test Freq. (KHz) | Q (Min) | Q Test Freq. (MHz) | SRF (MHz) | DCR Ohm Max. | IDC mA max. |
|-------------------------------|--------|--------------------|---------|--------------------|-----------|--------------|-------------|
| LQH-1210-R10M                 | 0.1    | 1                  | 10      | 25.2               | 200       | 0.25         | 700         |
| LQH-1210-R18M                 | 0.18   | 1                  | 10      | 25.2               | 200       | 0.25         | 650         |
| LQH-1210-R27M                 | 0.27   | 1                  | 10      | 25.2               | 200       | 0.25         | 600         |
| LQH-1210-R39M                 | 0.39   | 1                  | 10      | 25.2               | 200       | 0.25         | 530         |
| LQH-1210-R56M                 | 0.56   | 1                  | 10      | 25.2               | 160       | 0.25         | 530         |
| LQH-1210-R68M                 | 0.68   | 1                  | 10      | 25.2               | 160       | 0.25         | 470         |
| LQH-1210-R82M                 | 0.82   | 1                  | 10      | 25.21              | 120       | 0.25         | 450         |
| LQH-1210-1R0M                 | 1      | 1                  | 10      | 1                  | 100       | 0.5          | 445         |
| LQH-1210-1R2M                 | 1.2    | 1                  | 10      | 1                  | 100       | 0.6          | 425         |
| LQH-1210-1R5M                 | 1.5    | 1                  | 10      | 1                  | 75        | 0.6          | 400         |
| LQH-1210-1R8M                 | 1.8    | 1                  | 10      | 1                  | 60        | 0.7          | 390         |
| LQH-1210-2R2M                 | 2.2    | 1                  | 10      | 1                  | 50        | 0.8          | 370         |
| LQH-1210-2R7M                 | 2.7    | 1                  | 10      | 1                  | 43        | 0.9          | 320         |
| LQH-1210-3R3M                 | 3.3    | 1                  | 10      | 1                  | 38        | 1            | 300         |
| LQH-1210-3R9M                 | 3.9    | 1                  | 10      | 1                  | 35        | 1.1          | 290         |
| LQH-1210-4R7K                 | 4.7    | 1                  | 20      | 1                  | 31        | 1.2          | 270         |
| LQH-1210-5R6K                 | 5.6    | 1                  | 20      | 1                  | 28        | 1.3          | 250         |
| LQH-1210-6R8K                 | 6.8    | 1                  | 20      | 1                  | 25        | 1.5          | 240         |
| LQH-1210-8R2K                 | 8.2    | 1                  | 20      | 1                  | 23        | 1.6          | 225         |
| LQH-1210-100K                 | 10     | 1                  | 25      | 1                  | 20        | 1.8          | 190         |
| LQH-1210-120K                 | 12     | 1                  | 25      | 1                  | 18        | 2            | 180         |
| LQH-1210-150K                 | 15     | 1                  | 25      | 1                  | 16        | 2.2          | 170         |
| LQH-1210-180K                 | 18     | 1                  | 25      | 1                  | 15        | 2.5          | 165         |
| LQH-1210-220K                 | 22     | 1                  | 25      | 1                  | 14        | 2.8          | 150         |
| LQH-1210-270K                 | 27     | 1                  | 25      | 1                  | 13        | 3.1          | 125         |
| LQH-1210-330K                 | 33     | 1                  | 25      | 1                  | 12        | 3.5          | 115         |
| LQH-1210-390K                 | 39     | 1                  | 25      | 1                  | 11        | 3.9          | 110         |
| LQH-1210-470K                 | 47     | 1                  | 25      | 1                  | 11        | 4.3          | 100         |
| LQH-1210-560K                 | 56     | 1                  | 25      | 1                  | 10        | 4.9          | 85          |
| LQH-1210-680K                 | 68     | 1                  | 25      | 1                  | 9         | 5.5          | 80          |
| LQH-1210-820K                 | 82     | 1                  | 25      | 1                  | 8.5       | 6.2          | 70          |
| LQH-1210-101K                 | 100    | 1                  | 30      | 0.796              | 8         | 7            | 80          |
| LQH-1210-121K                 | 120    | 1                  | 30      | 0.796              | 7.5       | 8            | 75          |
| LQH-1210-151K                 | 150    | 1                  | 30      | 0.796              | 7         | 9.3          | 70          |
| LQH-1210-181K                 | 180    | 1                  | 30      | 0.796              | 6         | 10.2         | 65          |
| LQH-1210-221K                 | 220    | 1                  | 30      | 0.796              | 5.5       | 11.8         | 65          |
| LQH-1210-271K                 | 270    | 1                  | 30      | 0.796              | 5         | 12.5         | 65          |
| LQH-1210-331K                 | 330    | 1                  | 30      | 0.796              | 5         | 13           | 65          |
| LQH-1210-391K                 | 390    | 1                  | 30      | 0.796              | 5         | 22           | 50          |
| LQH-1210-471K                 | 470    | 0.001              | 30      | 0.796              | 5         | 25           | 45          |
| LQH-1210-561K                 | 560    | 0.001              | 30      | 0.796              | 5         | 28           | 40          |

- Inductance Testing: HP4291A,HP16193A,HP4286A or equivalent
- RDC:QuadTech 1880 Milliohm meter
- Q- HP4342A
- SRF-HP4191A
- Rated Current L value drop 10% typ. @ IDC against its initial value
- Temperature rise 40°C Max Reference ambient temperature
- Solderability: 75% of the terminal electrode shall be covered
- Soldering Methods: Wave,Reflow
- Operating Temperature:-25°C to +85°C
- Storage Temperature: -55°C to +125°C Note: All specifications subject to change without notice.

