

HIGH CURRENT SHIELDED SURFACE-MOUNT WIRE-WOUND INDUCTORS

LQH1210S SERIES

FEATURES:

- Ferrite shielded structure
- High Frequency Design
- Lower DCR permits High I_{dc}
- Available in E12 series
- Excellent Q SRF Values
- Lead free versions
- RoHS compliant
- 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

COMMON APPLICATIONS:

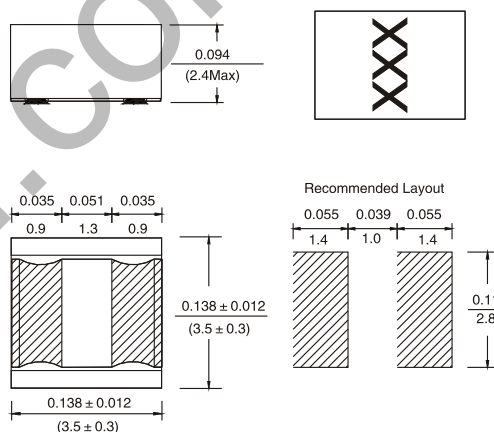
- Modems PDP. LCD TVs convertor
- Mobile Radios DC/DC convertor
- Cordless Telephones Car radios
- Global Positioning Systems
- Wireless Communications Equipment
- Networking System,xDSL Filter
- Computer Products and Peripherals

STANDARD SPECIFICATION

| Part Number (LQH 1210S Series) | L (μH) | L Test Freq (KHz) | Q (Min) | Q Test Freq (MHz) | SRF (MHz) | DCR (Ω Max) | IDC (mA Max) |
|--------------------------------|--------|-------------------|---------|-------------------|-----------|-------------|--------------|
| LQH-1210S-1R0M | 1.0 | 1 | 30 | 1 | 120 | 0.02 | 1000 |
| LQH-1210S-2R2M | 2.2 | 1 | 30 | 1 | 60 | 0.06 | 800 |
| LQH-1210S-4R7M | 4.7 | 1 | 35 | 1 | 35 | 0.11 | 600 |
| LQH-1210S-100K | 10 | 1 | 35 | 1 | 22 | 0.15 | 300 |
| LQH-1210S-220K | 22 | 1 | 40 | 1 | 15 | 0.32 | 180 |
| LQH-1210S-470K | 47 | 1 | 45 | 1 | 12 | 0.64 | 150 |
| LQH-1210S-101K | 100 | 1 | 45 | 0.796 | 9.0 | 1.74 | 90 |
| LQH-1210S-221K | 220 | 1 | 50 | 0.796 | 6.0 | 4.51 | 80 |
| LQH-1210S-331K | 330 | 1 | 50 | 0.796 | 4.2 | 8.63 | 70 |
| LQH-1210S-391K | 390 | 1 | 50 | 0.796 | 3.8 | 9.11 | 60 |
| LQH-1210S-471K | 470 | 1 | 50 | 0.796 | 3.5 | 9.52 | 50 |
| LQH-1210S-561K | 560 | 1 | 50 | 0.796 | 3.0 | 10.14 | 50 |
| LQH-1210S-681K | 680 | 1 | 50 | 0.796 | 2.6 | 11.83 | 40 |
| LQH-1210S-102K | 1000 | 1 | 50 | 0.796 | 2.1 | 14.3 | 30 |
| LQH-1210S-152K | 1500 | 1 | 50 | 0.796 | 1.7 | 29.9 | 25 |
| LQH-1210S-222K | 2200 | 1 | 50 | 0.796 | 1.5 | 36.4 | 20 |

Note: 1. K= ± 10%,M= ± 20%

PHYSICAL CHARACTERISTICS



DIMENSIONS: $\frac{\text{INCHES}}{\text{mm}}$

ELECTRONICAL SCHEMATIC



TECHNICAL INFORMATION

- Inductance Testing: HP4291A,HP16193A,HP4286A or equivalent
- RDC:QuadTech 1880 Milliohmmer
- Q- HP4342A
- SRF-HP4191A
- Rated Current L value drop 10% typ. at I_{DC} 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.

LQH1210S-100M

Model _____

Value/Tolerance:from table _____

Termination _____

L=Ag/Ni/Sn
Blank=Ag/Ni/Sn/Pb