

Chip Coils

muRata

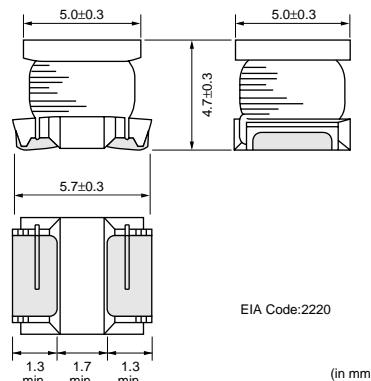
for Choke Winding/Magnetic Shielded Type LQH55D/LQH66S Series

LQH55D Series

LQH55D series are winding type coils for choke by using high performance thick wire winding technology.

■ Features

1. Low direct current resistance, large current capacity and large inductance
2. For DC-DC converters and DC power supply circuits

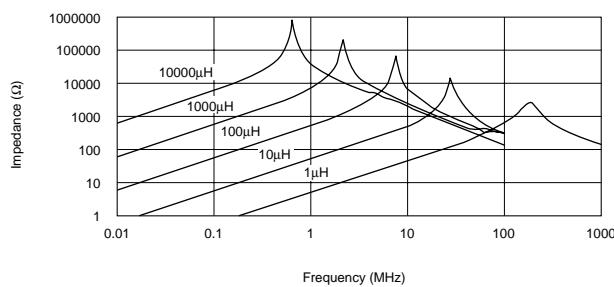


| Part Number | Inductance (μ H) | Test Frequency | Rated Current (mA) | DC Resistance (ohm) | Self Resonance Frequency (min.) (MHz) | EIA |
|---------------|--------------------------|----------------|-----------------------|------------------------|--|------|
| LQH55DNR12M03 | 0.12 ±20% | 1MHz | 6000 | 0.007 ±40% | 450 | 2220 |
| LQH55DNR27M03 | 0.27 ±20% | 1MHz | 5300 | 0.010 ±40% | 300 | 2220 |
| LQH55DNR47M03 | 0.47 ±20% | 1MHz | 4800 | 0.013 ±40% | 200 | 2220 |
| LQH55DN1R0M03 | 1.0 ±20% | 1MHz | 4000 | 0.019 ±40% | 150 | 2220 |
| LQH55DN1R5M03 | 1.5 ±20% | 1MHz | 3700 | 0.022 ±40% | 110 | 2220 |
| LQH55DN2R2M03 | 2.2 ±20% | 1MHz | 3200 | 0.029 ±40% | 80 | 2220 |
| LQH55DN3R3M03 | 3.3 ±20% | 1MHz | 2900 | 0.036 ±40% | 40 | 2220 |
| LQH55DN4R7M03 | 4.7 ±20% | 1MHz | 2700 | 0.041 ±40% | 30 | 2220 |
| LQH55DN6R8M03 | 6.8 ±20% | 1MHz | 2000 | 0.074 ±40% | 25 | 2220 |
| LQH55DN100M03 | 10 ±20% | 1MHz | 1700 | 0.093 ±40% | 20 | 2220 |
| LQH55DN150M03 | 15 ±20% | 1MHz | 1400 | 0.15 ±40% | 17 | 2220 |
| LQH55DN220M03 | 22 ±20% | 1MHz | 1200 | 0.19 ±40% | 15 | 2220 |
| LQH55DN330M03 | 33 ±20% | 1MHz | 900 | 0.32 ±40% | 12 | 2220 |
| LQH55DN470M03 | 47 ±20% | 1MHz | 800 | 0.40 ±40% | 10 | 2220 |
| LQH55DN680M03 | 68 ±20% | 1MHz | 640 | 0.67 ±40% | 7.6 | 2220 |
| LQH55DN101M03 | 100 ±20% | 100kHz | 560 | 0.86 ±40% | 6.5 | 2220 |
| LQH55DN151M03 | 150 ±20% | 100kHz | 420 | 1.9 ±40% | 5.0 | 2220 |
| LQH55DN221M03 | 220 ±20% | 100kHz | 320 | 2.4 ±40% | 4.0 | 2220 |
| LQH55DN331M03 | 330 ±20% | 100kHz | 270 | 4.4 ±40% | 3.1 | 2220 |
| LQH55DN471M03 | 470 ±20% | 100kHz | 240 | 5.4 ±40% | 2.4 | 2220 |
| LQH55DN681M03 | 680 ±20% | 100kHz | 190 | 8.1 ±40% | 1.9 | 2220 |
| LQH55DN102M03 | 1000 ±20% | 10kHz | 150 | 10.3 ±40% | 1.7 | 2220 |
| LQH55DN222M03 | 2200 ±20% | 10kHz | 100 | 21.5 ±40% | 1.2 | 2220 |
| LQH55DN472M03 | 4700 ±20% | 10kHz | 70 | 43.6 ±40% | 0.8 | 2220 |
| LQH55DN103M03 | 10000 ±20% | 10kHz | 50 | 100 ±40% | 0.5 | 2220 |

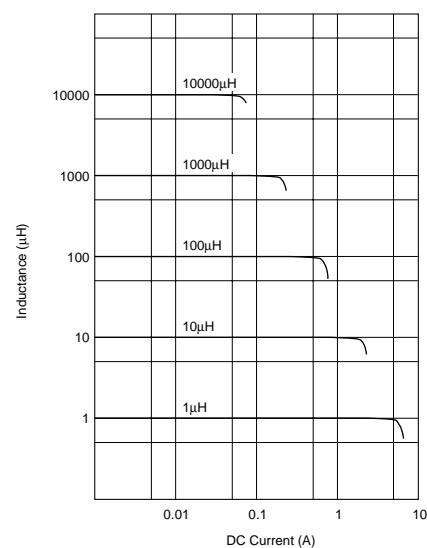
Operating Temp. Range : -25°C to +80°C

Please use reflow soldering.

■ Impedance-Frequency Characteristics



■ Inductance-Current Characteristics

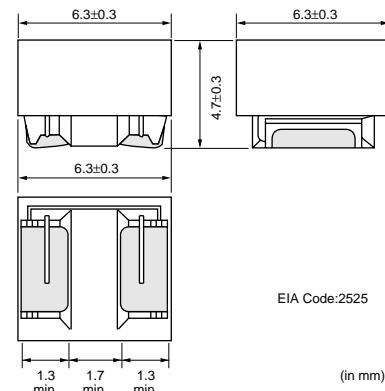


LQH66S Series

LQH66S series are magnetic shielded type coils for choke by using high performance thick wire winding technology.

■ Features

1. Low direct current resistance, large current capacity and large inductance
2. High density mounting
3. For DC-DC converters and DC power supply circuits

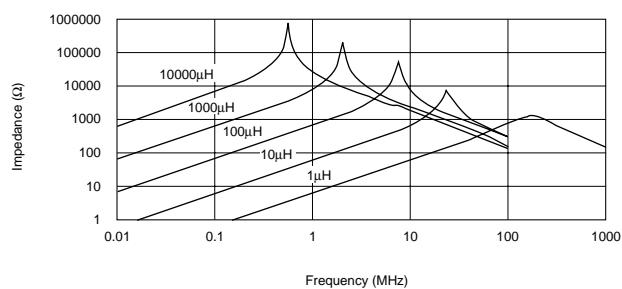


| Part Number | Inductance (μ H) | Test Frequency | Rated Current (mA) | DC Resistance (ohm) | Self Resonance Frequency (min.) (MHz) | EIA |
|----------------------|--------------------------|----------------|-----------------------|------------------------|--|------|
| LQH66SNR27M03 | 0.27 ±20% | 1MHz | 6000 | 0.007 ±40% | 300 | 2525 |
| LQH66SNR68M03 | 0.68 ±20% | 1MHz | 5300 | 0.010 ±40% | 180 | 2525 |
| LQH66SN1R0M03 | 1.0 ±20% | 1MHz | 4700 | 0.013 ±40% | 150 | 2525 |
| LQH66SN1R5M03 | 1.5 ±20% | 1MHz | 3800 | 0.016 ±40% | 110 | 2525 |
| LQH66SN2R2M03 | 2.2 ±20% | 1MHz | 3300 | 0.019 ±40% | 80 | 2525 |
| LQH66SN3R3M03 | 3.3 ±20% | 1MHz | 2600 | 0.022 ±40% | 40 | 2525 |
| LQH66SN4R7M03 | 4.7 ±20% | 1MHz | 2200 | 0.025 ±40% | 30 | 2525 |
| LQH66SN6R8M03 | 6.8 ±20% | 1MHz | 1800 | 0.029 ±40% | 25 | 2525 |
| LQH66SN100M03 | 10 ±20% | 1MHz | 1600 | 0.036 ±40% | 20 | 2525 |
| LQH66SN150M03 | 15 ±20% | 1MHz | 1300 | 0.069 ±40% | 17 | 2525 |
| LQH66SN220M03 | 22 ±20% | 1MHz | 1100 | 0.087 ±40% | 15 | 2525 |
| LQH66SN330M03 | 33 ±20% | 1MHz | 860 | 0.14 ±40% | 12 | 2525 |
| LQH66SN470M03 | 47 ±20% | 1MHz | 760 | 0.17 ±40% | 10 | 2525 |
| LQH66SN680M03 | 68 ±20% | 1MHz | 600 | 0.29 ±40% | 7.6 | 2525 |
| LQH66SN101M03 | 100 ±20% | 100kHz | 520 | 0.36 ±40% | 6.5 | 2525 |
| LQH66SN151M03 | 150 ±20% | 100kHz | 420 | 0.63 ±40% | 5.0 | 2525 |
| LQH66SN221M03 | 220 ±20% | 100kHz | 350 | 0.79 ±40% | 4.0 | 2525 |
| LQH66SN331M03 | 330 ±20% | 100kHz | 280 | 1.8 ±40% | 3.2 | 2525 |
| LQH66SN471M03 | 470 ±20% | 100kHz | 240 | 2.2 ±40% | 2.5 | 2525 |
| LQH66SN681M03 | 680 ±20% | 100kHz | 200 | 3.9 ±40% | 2.0 | 2525 |
| LQH66SN102M03 | 1000 ±20% | 10kHz | 160 | 4.9 ±40% | 1.7 | 2525 |
| LQH66SN222M03 | 2200 ±20% | 10kHz | 100 | 9.4 ±40% | 1.2 | 2525 |
| LQH66SN472M03 | 4700 ±20% | 10kHz | 70 | 19.5 ±40% | 0.8 | 2525 |
| LQH66SN103M03 | 10000 ±20% | 10kHz | 50 | 39.7 ±40% | 0.5 | 2525 |

Operating Temp. Range : -25°C to +80°C

Please use reflow soldering.

■ Impedance-Frequency Characteristics



■ Inductance-Current Characteristics

