

# Chip Coils for Choke Monolithic Type



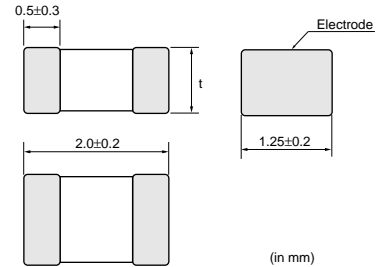
## LQM21D Series (0805 Size)

LQM21D series consists of magnetically shielded chip inductors. It has less than half the DC resistance of our conventional monolithic chip inductors as well as high inductance.

### ■ Features

1. The inductors have very low DC resistance.
2. The series has an inductance range of 1.0 micro H to 47 micro H.
3. Magnetically shielded structure provides excellent crosstalk characteristics.
4. Compact (2.0x1.25mm) and lightweight
5. Applicable soldering methods are both flow soldering and reflow soldering.

### ■ Dimensions



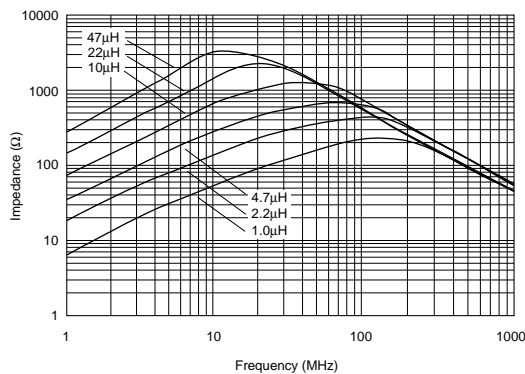
Dimension of t	Inductance: 1.0 to 10 $\mu$ H	0.85 $\pm$ 0.2
	Inductance: 22 to 47 $\mu$ H	1.25 $\pm$ 0.2

### ■ Rated Value (□: packaging code)

Part Number	Inductance	Test Frequency	Rated Current	Max. of DC Resistance	Self Resonance Frequency (min.)
LQM21DN1R0N00□	1.0 $\mu$ H $\pm$ 30%	1MHz	60mA	0.10ohm	75MHz
LQM21DN2R2N00□	2.2 $\mu$ H $\pm$ 30%	1MHz	40mA	0.17ohm	50MHz
LQM21DN4R7N00□	4.7 $\mu$ H $\pm$ 30%	1MHz	30mA	0.30ohm	35MHz
LQM21DN100N00□	10 $\mu$ H $\pm$ 30%	1MHz	15mA	0.50ohm	24MHz
LQM21DN220N00□	22 $\mu$ H $\pm$ 30%	1MHz	13mA	0.65ohm	16MHz
LQM21DN470N00□	47 $\mu$ H $\pm$ 30%	1MHz	7mA	1.20ohm	7.5MHz

Operating Temperature Range: -40°C to +85°C

### ■ Impedance - Frequency Characteristics



### ■ Inductance - Current Characteristics

