

CHIP COIL

Multilayer Chip Coil **LQG21N** Series

muRata

Magnetically Shielded Multilayer Chip Coil Low Drift Excellent for High Density Mounting

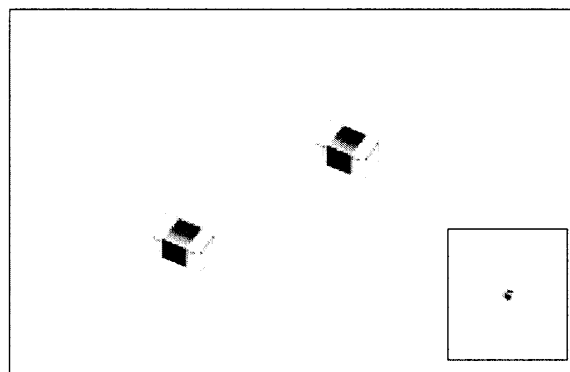
The LQG21N series consists of magnetically shielded chip coils developed using original Murata multilayer process technology and magnetic materials. The coils occupy one quarter the volume of conventional chip coils and feature high reliability.

■FEATURES

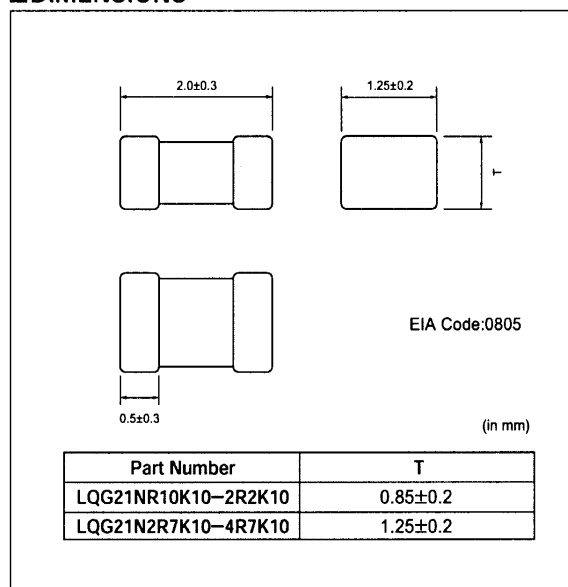
1. Magnetically shielded structure provides excellent crosstalk characteristics.
2. Compact (2.0×1.25mm) and lightweight.
3. Low inductance drift resulting from soldering, environmental tests, etc.
4. Outstanding solder heat resistance. Either flow or reflow soldering can be used.

■APPLICATIONS

- Hard-disk drives
- Audio-Visual equipment
- Telecommunications equipment



■DIMENSIONS

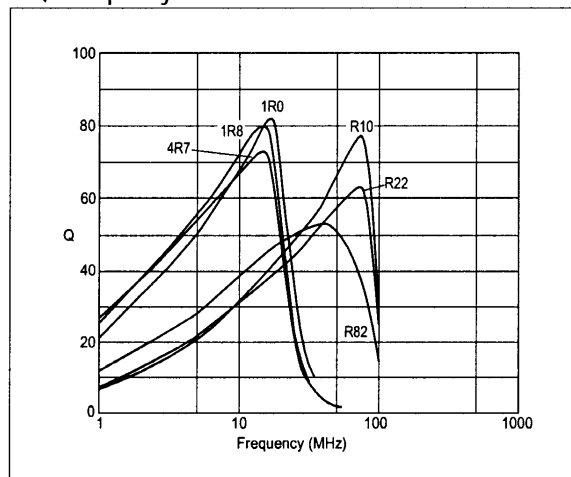


■ SPECIFICATIONS

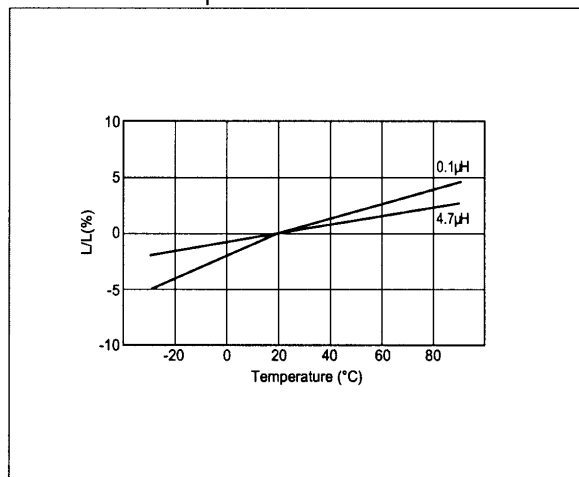
Part Number	Inductance			Q		DC Resistance (Ω max.)	Self-resonant Frequency (MHz min.)	Allowable Current (mA)	Operating Temp. Range
	Nominal Value(μH)	Tolerance (%)	Test Frequency	Nominal Value(min.)	Test Frequency				
LQG21NR10K10	0.10	±10	25MHz	20	25MHz	0.26	340	250	-40 to +85℃
LQG21NR12K10	0.12					0.29	310		
LQG21NR15K10	0.15					0.32	270		
LQG21NR18K10	0.18					0.35	250		
LQG21NR22K10	0.22					0.38	220		
LQG21NR27K10	0.27					0.42	200		
LQG21NR33K10	0.33					0.48	180		
LQG21NR39K10	0.39					0.53	165		
LQG21NR47K10	0.47					0.57	150		
LQG21NR56K10	0.56			25		0.63	140	200	
LQG21NR68K10	0.68					0.72	125		
LQG21NR82K10	0.82					0.81	115		
LQG21N1R0K10	1.0		10MHz	45	10MHz	0.40	107	50	
LQG21N1R2K10	1.2					0.47	97		
LQG21N1R5K10	1.5					0.50	87		
LQG21N1R8K10	1.8					0.57	80		
LQG21N2R2K10	2.2					0.63	71		
LQG21N2R7K10	2.7					0.69	66	30	
LQG21N3R3K10	3.3					0.80	59		
LQG21N3R9K10	3.9					0.89	53		
LQG21N4R7K10	4.7					1.00	47		

■ TYPICAL ELECTRICAL CHARACTERISTICS

● Q - Frequency Characteristics



● Inductance - Temperature Characteristics



● Inductance - Current Characteristics

