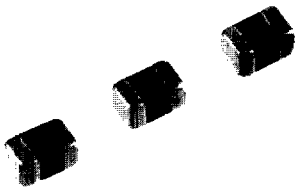
muRata

LQG21C Series



The LQG21C Series is a magnetically shielded chip coil developed with Murata's expertise in multilayer process technology and magnetic materials. With less than half the DC resistance of our conventional monolithic chip coils, it still achieves high inductance values.

FEATURES

- The inductor has ultra low DC resistance.
- This series covers an inductance range from 1.0μH to 47μH.
- Magnetically shielded construction provides excellent crosstalk characteristics.
- Compact (2.0mm x 1.25mm) and light weight
- Low inductance drift during soldering, environmental tests, etc.
- Outstanding solder heat resistance. Either flow or reflow soldering

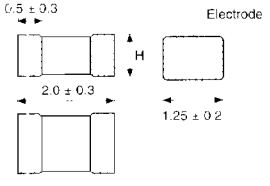
APPLICATIONS

- Low current power line (for choke use)

PART NUMBERING

LQG	21	C	1R0	N	00	T1	M00
MONOLITHIC	SIZE 21 : 2.0 x 1.25mm (0805)	CHOKE APPLICATIONS	INDUCTANCE 1R0 : 1μH 100 : 10μH	TOLERANCE N : ±30%	CHARACTERISTIC	PACKAGING T1 : Tape B1 : Bulk	UNMARKED

SPECIFICATIONS

Dimensions: mm	Part Number	Nominal Value (μH)	Inductance		DC Resistance (max. Ω)	Self-resonant Frequency		Allowable Current (mA)	Operating Temp. Range
			Tolerance	Measurement Frequency		Typical (MHz)	Minimum (MHz)		
	*LQG21C1R0N00	1.0	±30%	1 MHz	0.10	150	75	60	−40°C ~ +85°C
	*LQG21C2R2N00	2.2			0.17	100	50	40	
	*LQG21C4R7N00	4.7			0.30	70	35	30	
	*LQG21C100N00	10			0.50	45	24	15	
	*LQG21C220N00	22			0.65	20	16	13	
	*LQG21C470N00	47			1.20	—	7.5	7	

Part Number	H
LQG21C1R0N~100N	0.9 ± 0.2
LQG21C220N~470N	1.25 ± 0.2

*Available as standard through authorized Murata Electronics Distributors.

TYPICAL IMPEDANCE FREQUENCY CHARACTERISTICS