

CHIP INDUCTORS

SURFACE MOUNT CHIP INDUCTORS

LQG11A SERIES

NEW

muRata
Innovator in Electronics



The LQG11A Series is designed to have stable characteristics in high frequency range by applying an integrated multilayer process.

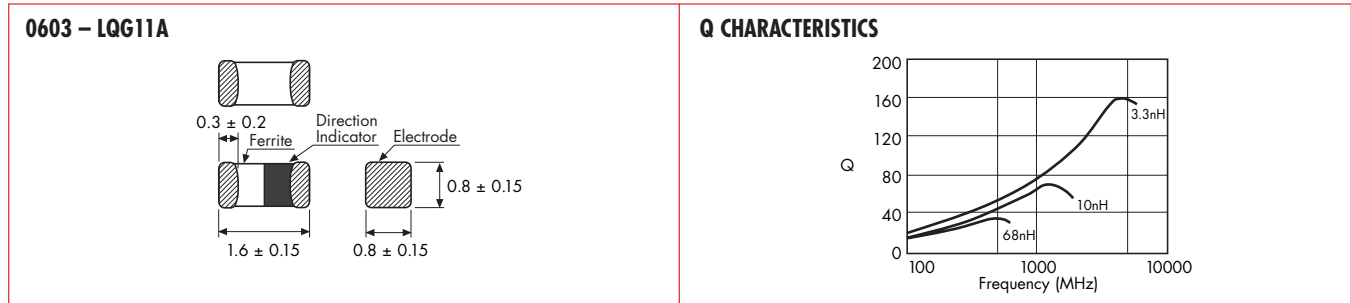
FEATURES

- High-Q characteristics
- Small size of LQG11A (1.6 x 0.8 x 0.8mm) is suitable for small portable equipment, especially for card size equipment.
- The external electrodes with nickel barrier structure provide excellent solder heat resistance.

APPLICATIONS

- High frequency circuit of telecommunication equipment
- RF circuits
- DECT, PHS, AMPS, PCS, PCN, GSM

DIMENSIONS: mm



SPECIFICATIONS

Part Number	Inductance			Q		DC Resistance (Ω max.)	Self-resonant Frequency (MHz min.)	Allowable Current (mA)	Operating Temperature Range
	Nominal Value (nH)	Tolerance	Test Frequency (MHz)	Nominal Value (min.)	Test Frequency (MHz)				
*LQG11A1N2S00	1.2	±0.3nH	100	12	100	0.10	6000	300	-40°C ~ +85°C
*LQG11A1N5S00	1.5								
*LQG11A1N8S00	1.8								
*LQG11A2N2S00	2.2								
*LQG11A2N7S00	2.7								
*LQG11A3N3S00	3.3								
*LQG11A3N9S00	3.9								
*LQG11A4N7S00	4.7								
*LQG11A5N6S00	5.6								
*LQG11A6N8J00	6.8								
*LQG11A8N2J00	8.2	0.25	4000						
*LQG11A10NJ00	10	0.30	3500						
*LQG11A12NJ00	12	0.35	3000						
*LQG11A15NJ00	15	0.40	2800						
*LQG11A18NJ00	18	0.45	2600						
*LQG11A22NJ00	22	0.50	2300						
*LQG11A27NJ00	27	0.55	2000						
*LQG11A33NJ00	33	0.60	1700						
*LQG11A39NJ00	39	0.65	1500						
*LQG11A47NJ00	47	0.70	1200						
*LQG11A56NJ00	56	0.75	1100						
*LQG11A68NJ00	68	0.80	1000						
*LQG11A82NJ00	82	0.85	900						
*LQG11AR10J00	100	0.90	800						

PART NUMBERING SYSTEM

LQG	11	A	1N2	S	00
TYPE LQG: Monolithic	SIZE 11: 1.6 x 0.8mm	CHARACTERISTICS A: Air Coil	INDUCTANCE CODE 1N2: 1.2nH 10N: 10nH R10: 100nH	TOLERANCE S: ± .3nH J: ± 5%	ELECTRODE CONSTRUCTION 00: Ag + Ni + Sn

*Available as standard through authorized Murata Electronics Distributors. *Applicable in North American market only. *Applicable in European market only.
For more detailed information regarding this product line in North America, see Catalog No. E-06-E. To receive additional information on Murata Products call 1-800-831-9172.
For more detailed information regarding this product line in Europe, see Catalog No. O05E-3.

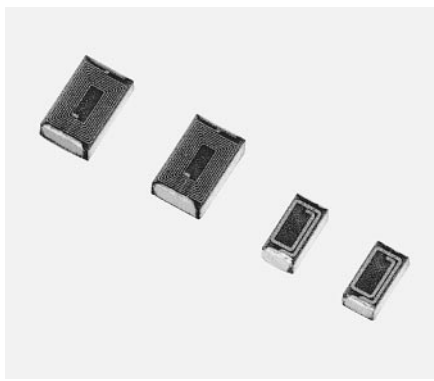
CHIP INDUCTORS

SURFACE MOUNT CHIP INDUCTORS

LQP10A/11A/21A SERIES

NEW

Murata
Innovator in Electronics



The LQP Series is comprised of chip coils with a tight inductance tolerance, $\pm 2\%$, achieved in a small chip area. Murata achieves this by forming the coil with precision film technology.

This coil is excellent in the high-frequency circuits of telecommunication equipment.

FEATURES

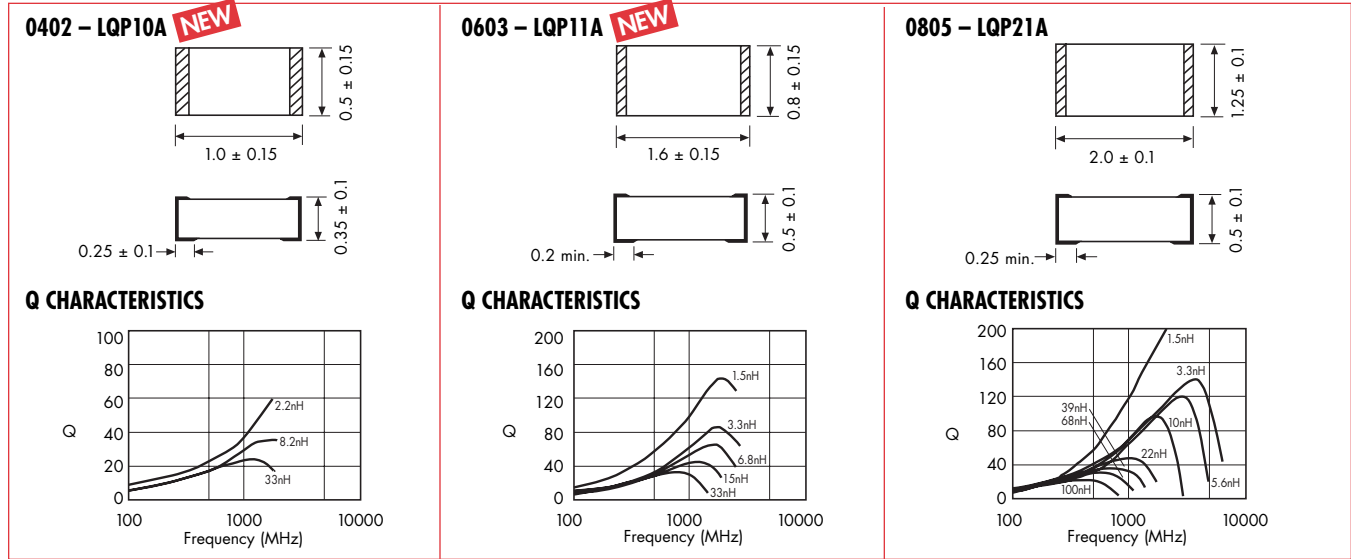
- Tight tolerance enables assembly without tuning.

- High SRF due to low stray capacitance provides stable inductance in high frequency circuits.
- External electrodes with nickel barrier structure provide excellent solder heat resistance.

APPLICATIONS

- CDMA, DECT, PHS, PCS
- RF Circuits
- Oscillators

DIMENSIONS: mm

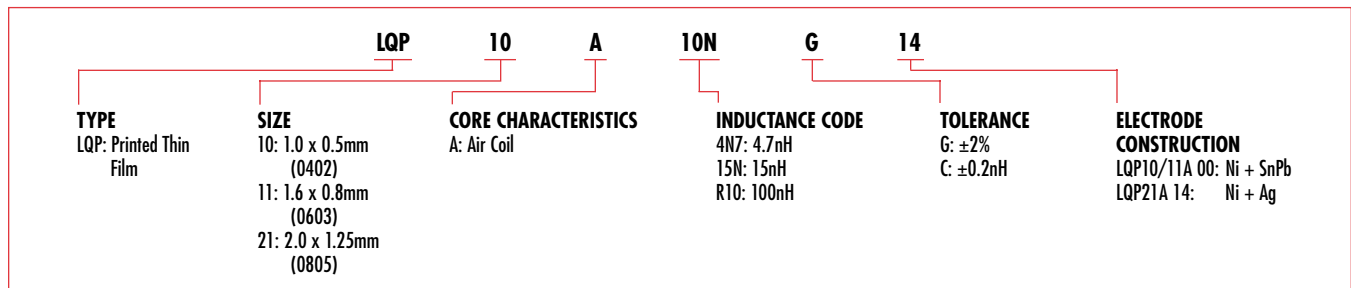


CHIP INDUCTORS

SPECIFICATIONS

Part Number	Inductance		Test Frequency (MHz)	Q			DC Resistance (Ω max.)	Self-resonant Frequency (MHz min.)	Allowable Current (mA)	Operating Temp. Range
	Nominal Value (nH)	Tolerance		Peak Value (Typ.)	Min. Value	Test Frequency (MHz)				
0402	1.0 ~ 33	$\pm 0.2\text{nH}$ ~ $\pm 2\%$	500	21 ~ 30	13	500	0.1 ~ 3.8	2100 ~ 6000	60 ~ 400	-40°C ~ +85°C
0603	1.3 ~ 33		500	21 ~ 160	17	500	0.3 ~ 2.8	700 ~ 6000	100 ~ 300	
0805	1.5 ~ 100		300	24 ~ 300	15 ~ 17	300	0.15 ~ 6.0	6000	90 ~ 550	

PART NUMBERING SYSTEM



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