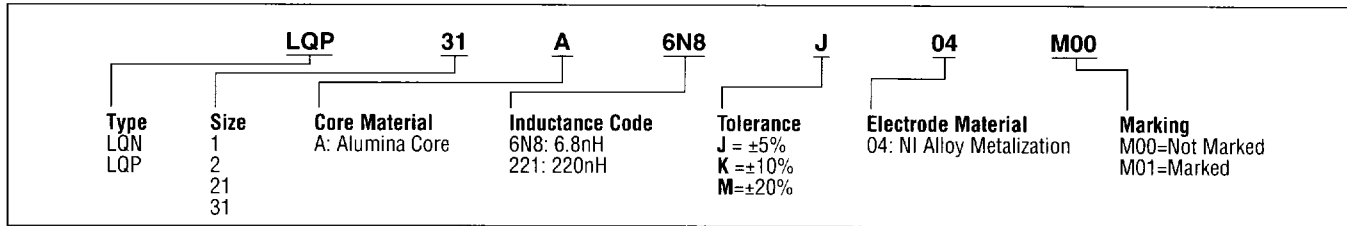


These ultra small, high performance chip inductors feature a low direct current resistance and outstanding high frequency characteristics. Each series has a unique structure specifically designed with a wide range of values suitable for various applications such as CMT, pagers, radio communication equipment and audio equipment.

PACKAGING:

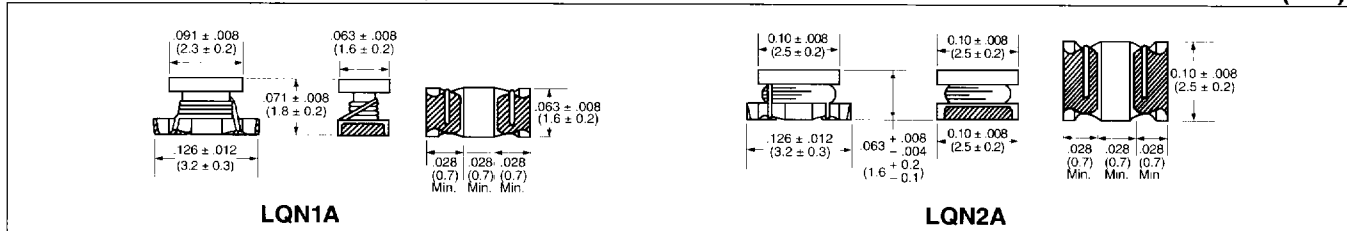
Taped per EIAJ-RC-1009B in plastic tape on a reel in the following quantities:
LQN1A/LQH1N/LQH1C/LQH3N/LQH3C/LQP31A/LQP21A : 2000 pcs/reel (180mm)
LQN2A : 2500 pcs/reel (180mm)
LQH(N)4N : 2500 pcs/reel (330mm)
LQM32C : 1000 pcs/reel (180mm)
LQS33N : 1000 pcs/reel (180mm)
LQG21N : 4000 pcs/reel (180mm)

PART NUMBERING



★ LQN1A/LQN2A SERIES – HIGH Q, FOR HIGH FREQUENCY

DIMENSIONS: in. (mm)

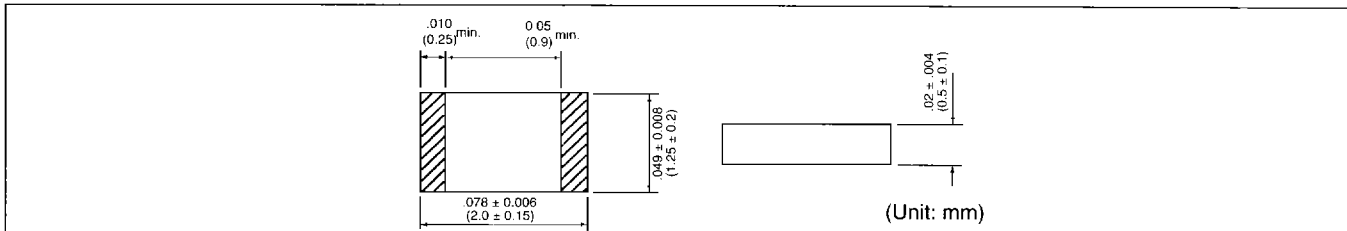


Part Number ^{1,2}	Nominal Inductance		Tolerance ³			Q (Typ.)	DC ⁴ Resistance (Ω) Max.	Self ⁴ Resonance Freq. (MHz) Min.	Allowable ⁴ Current(mA)
	Min.	Max.	J	K	M				
★LQN1A○○○□04M00	8.8nH	100nH	⊙	○		100	0.029±40%	1000	750
★LQN2A○○○□04M00	10nH	82nH			⊙	60	0.25	1000	750
	100nH	220nH		⊙		40	0.40	400	380

1...Inductance code is shown in ○○○: 4.7nH=4N7, 10nH=10N, 100nH=R10
 2...Tolerance code is shown in □: ±5%=J, ±10%=K, ±20%=M

3...⊙: Standard ○: Semi Standard
 4...DC resistance, self-resonant frequency and allowable current are shown with the minimum value of inductance.

★ LQP21A SERIES – SMALL SIZE FOR ULTRA HIGH FREQUENCY



Part Number ^{1,2}	Nominal Inductance		Tolerance ³			Q (Typ.)	DC ⁴ Resistance (Ω) Max.	Self ⁴ Resonance Freq. (MHz) Min.	Allowable ⁴ Current(mA)
	Min.	Max.	J	K	M				
★LQP21A○○○□04	3.3nH	15nH	⊙			44	1	2000	100

1...Inductance code is shown in ○○○: 3.3nH=3N3, 15nH=15N.
 2...Tolerance code is shown in □: ±5%=J.
 3...⊙: Standard.
 4...DC resistance and self-resonant frequency are shown with minimum value of inductance.
 ★Available as standard through authorized Murata Electronics Distributors.

CHIP INDUCTORS

★ LQG21N SERIES – MONOLITHIC SHIELDED INDUCTOR

Inductance	H
~2.2μH	0.9 ± 0.2
2.7μH~	1.25 ± 0.2

(Unit: mm)

Part Number ^{1,2}	Nominal Inductance		Tolerance ³			Q (Typ.)	DC ⁴ Resistance (Ω) Max.	Self ⁴ Resonance Freq. (MHz) Min.	Allowable ⁴ Current(mA)
	Min.	Max.	J	K	M				
★LQG21N○○○□04	0.10μH	4.7μH		⊙		25	0.17±50%	340	300

- 1...Inductance code is shown in ○○○○: .10μH=R10, 4.7μH=4R7.
- 2...Tolerance code is shown in □: ±10K.
- 3...⊙: Standard.
- 4...DC resistance, self-resonant frequency and allowable current are shown with minimum value of inductance.
- ★Available as standard through authorized Murata Electronics Distributors.

LQP31A SERIES – TIGHT TOLERANCE FOR ULTRA HIGH FREQUENCY

DIMENSIONS: in. (mm) LQP31A

Part Number ^{1,2}	Nominal Inductance		Tolerance ³			Q (Typ.)	DC ⁴ Resistance (Ω) Max.	Self ⁴ Resonance Freq. (MHz) Min.	Allowable ⁴ Current(mA)
	Min.	Max.	G	J	K				
LQP31A○○○○□04M000	4.7nH	6.8nH		⊙		50	1	2000	250
	10nH	100nH	⊙			30	1	1000	230

- 1...Inductance code is shown in ○○○○: 4.7nH=4N7, 10nH=10N, 100nH=R10
- 2...Tolerance code is shown in □: ±5%=J, ±10%=K, ±20%=M.
- 3...⊙: Standard ○: Semi Standard.
- 4...DC resistance, self-resonant frequency and allowable current are shown with the minimum value of inductance.

DIMENSIONS OF PLASTIC TAPE: in. (mm)

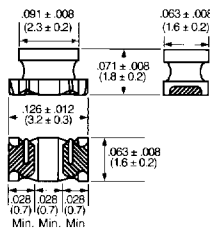
Part Number	a	b	c
LQN1A	.075 (1.9)	.142 (3.6)	.079 (2.0)
LQN2A	.114±.008 (2.9±0.2)	.142±.008 (3.6±0.2)	.071 (1.8)
LQP21A	.06 (1.55)	.09 (2.3)	.03 (.75)
LQG21	.06 (1.55)	.09 (2.3)	.05 (1.3 max)
LQP31A	.075 (1.9)	.142 (3.6)	.035 (0.9)

PART NUMBERING SYSTEM

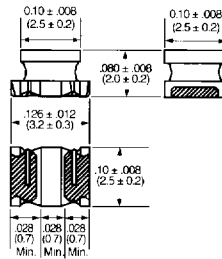
LQH	3	C	102	K	04	M00
Type	Size	Core Material	Inductance Code	Tolerance	Electrode Material	Marking
LQH=Epoxy Coated LQN=Non-Coated LQG=Mono LQS=Shielded	1 2 3 4	A: Alumina Core N: Ferrite Core C: Ferrite Core for choke coil	1R0=1.0μH 100=10μH 331=330μH	G=±2% J=±5% K=±10% M=±20%	00: Metal 04: Ni Alloy Metalization	M01=Marked M00=Not Marked

STANDARD TYPE LQH/LQN□N SERIES

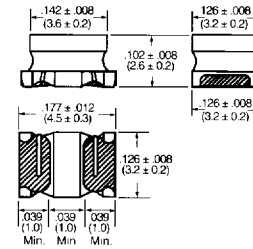
DIMENSIONS: in. (mm)



LQH1N



LQH3N



LQH4N/LQN4N

Part Number ^{1,2}	Nominal Inductance		Tolerance ³			Q (Typ.)	DC ⁴ Resistance (Ω) Max.	Self ⁴ Resonance Freq. (MHz) Min.	Allowable ⁴ Current(mA)
	Min.	Max.	J	K	M				
*LQH1N○○○□04M00	0.15μH	8.2μH		○	⊙	50	0.39±40%	250	250
	10μH	100μH	○	⊙		60	2.5 ±30%	20	100
*LQH3N○○○□04M00	0.1μH	0.82μH			⊙	50	0.25	200	700
	1.0μH	8.2μH		⊙		50	0.5	100	445
*LQH4N○○○□04M00	10μH	1.5mH	○	⊙		50	0.56	23	400
	10μH	330μH	○	⊙		60	1.8	20	190
*LQN4N○○○□04M00	1.8mH	2.2mH	○	⊙		50	45	1.5	35

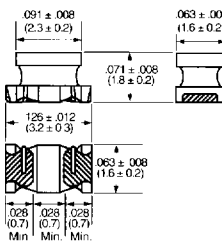
1...Inductance code is shown in ○○○: 1.2μH=1R2, 10μH=100, 100μH=101

2...Tolerance code is shown in □: ±5%=J, ±10%=K, ±20%=M

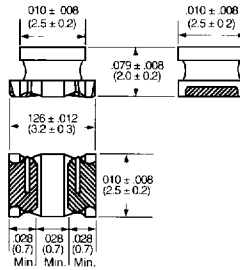
3...⊙: Standard ○: Semi Standard.

4...DC resistance, self-resonant frequency and allowable current are shown with the minimum value of inductance.

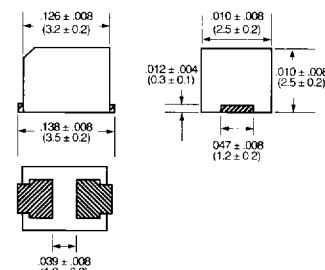
LQH□C/LQM32C SERIES – FOR CHOKE COIL USE, LARGE ALLOWABLE CURRENT, LARGE INDUCTANCE



LQH1C



LQH3C



LQM32C

DIMENSIONS: in. (mm)

Part Number ^{1,2}	Nominal Inductance		Tolerance ³			DC ⁴ Resistance (Ω) Max.	Self ⁴ Resonance Freq. (MHz) Min.	Allowable ⁴ Current(mA)
	Min.	Max.	J	K	M			
*LQH1C○○○□04M00	0.12μH	4.7μH			⊙	0.08±40%	250	970
	10μH	100μH		⊙		1.3 ±30%	20	230
*LQH3C○○○□04M00	1.0μH	4.7μH			⊙	0.09±30%	96	800
	10μH	330μH		⊙		0.44±30%	26	300
*LQM32C○○○□00M00	470μH	1000μH			⊙	13 ±30%	4.5	80

1...Inductance code is shown in ○○○: 1.2μH=1R2, 10μH=100, 100μH=101

2...Tolerance code is shown in □: ±5%=J, ±10%=K, ±20%=M

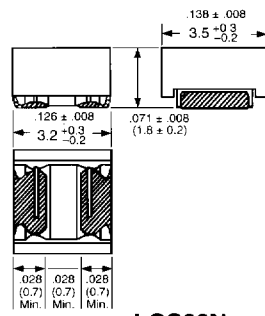
3...⊙: Standard ○: Semi Standard

4...DC resistance, self-resonant frequency and allowable current are shown with the minimum value of inductance.

*Available as standard through authorized Murata Electronics Distributors.

CHIP INDUCTORS

LQS33N SERIES – TIGHT TOLERANCE WITH MAGNETIC SHIELD



DIMENSIONS: in. (mm)

LQS33N

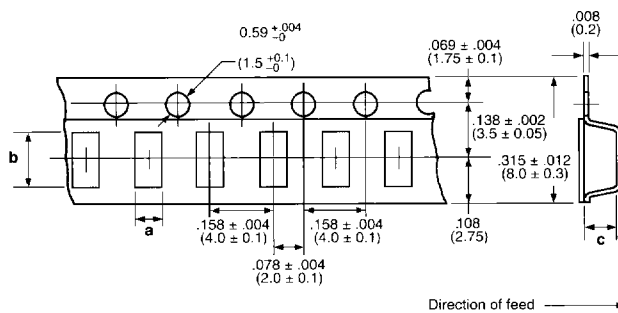
Part Number ^{1,2}	Nominal Inductance		Tolerance ³			Q (Typ.)	DC ⁴ Resistance (Ω) Max.	Self ⁴ Resonance Freq. (MHz) Min.	Allowable ⁴ Current (mA)
	Min.	Max.	G	J	K				
LQS33N○○○□04M00	$1.0\mu\text{H}$	$100\mu\text{H}$	⊙	○		100	$0.19 \pm 30\%$	120	70

1...Inductance code is shown in ○○○ : $1.2\mu\text{H}=1\text{R}2$, $10\mu\text{H}=100$, $100\mu\text{H}=101$
 2...Tolerance code is shown in □ : $\pm 2\%=G$, $\pm 5\%=J$, $\pm 10\%=K$

3...⊙: Standard ○: Semi Standard.

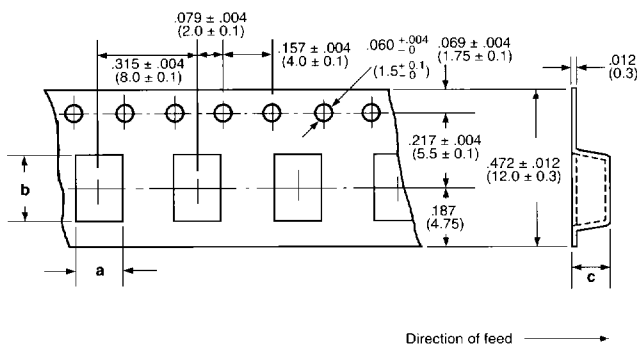
4...DC resistance, self-resonant frequency and allowable current are shown with the minimum value of inductance.

DIMENSIONS OF PLASTIC TAPE: in. (mm)



Part Number	a	b	c
LQH1N/LQH1C	.075 (1.9)	.142 (3.6)	.079 (2.0)
LQH3N/LQH3C	.114 \pm .008 (2.9 \pm 0.2)	.142 \pm .008 (3.6 \pm 0.2)	.087 (2.2)
LQM32C	.114 (2.9)	.157 (4.0)	.110 (2.8)

DIMENSIONS OF PLASTIC TAPE: in. (mm)



Part Number	a	b	c
LQS33N	0.10 (3.9)	.146 (3.7)	.075 (1.9)
LQH4N/LQN4N	.142 (3.6)	.193 (4.9)	.114 (2.9)