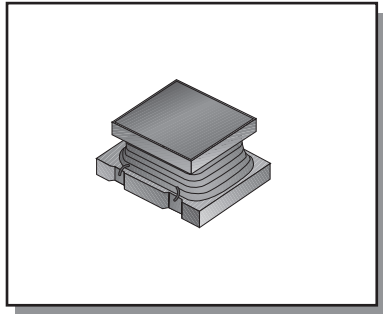


### Type LQH4N

Inductance Range	1 $\mu$ H - 1500 $\mu$ H
SRF Range	1.6MHz - 120MHz
DC Current Range	40mA - 500mA

A range of general purpose, surface mount inductors consisting of miniature chip coils wound on a special ferrite core. They have a high Q value at high frequencies and low DC resistance. Inductance values extend from 1.0  $\mu$ H through to 1500  $\mu$ H. They are ideally suited for audio and test & measurement applications and are supplied taped and reeled.

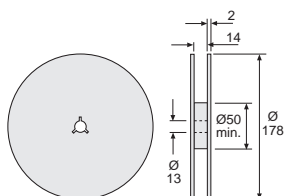
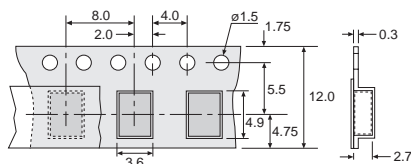


- ◆ General purpose
- ◆ Industry standard chip size **1812**
- ◆ Inductance values from **1.0  $\mu$ H to 1500  $\mu$ H**
- ◆ High Q values
- ◆ Low DC resistance
- ◆ Suitable for wave & reflow soldering
- ◆ Supplied taped & reeled

#### Specification

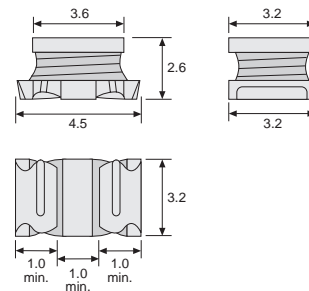
Inductance tolerance .....  $\pm 20\%$  ( $\leq 3.9 \mu\text{H}$ ),  $\pm 10\%$  ( $\geq 4.7 \mu\text{H}$ )  
 Operating temperature range .....  $-25^\circ\text{C}$  to  $+85^\circ\text{C}$

#### Packaging

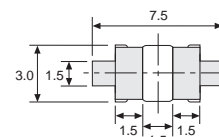


Reel Quantity: 500pcs

#### Dimensions (mm)



#### Pad Pattern



- Closer tolerances
  - Higher frequencies
  - Choke type chip coils
  - Chip inductor design kits
- available to special order

Please contact our Sales Desk for details

**LQH4N series, size 1812**

Inductance Value (µH)*	DC Resistance max. (Ω)	Q		Self Resonant Frequency min. (MHz)	Current Rating (mA)	Murata Part No.	Anglia Order Code
		typ.	at Test Freq. (MHz)				
1.0	0.2	20	1	120	500	LQH4N1R0M04	LF102
1.2	0.2	20	1	100	500	LQH4N1R2M04	LF122
1.5	0.3	20	1	85	500	LQH4N1R5M04	LF152
1.8	0.3	20	1	75	500	LQH4N1R8M04	LF182
2.2	0.3	20	1	62	500	LQH4N2R2M04	LF222
2.7	0.32	20	1	53	500	LQH4N2R7M04	LF272
3.3	0.35	20	1	47	500	LQH4N3R3M04	LF332
3.9	0.38	20	1	41	500	LQH4N3R9M04	LF392
4.7	0.4	30	1	38	500	LQH4N4R7K04	LF472
5.6	0.47	30	1	33	500	LQH4N5R6K04	LF562
6.8	0.5	30	1	31	450	LQH4N6R8K04	LF682
8.2	0.56	30	1	27	450	LQH4N8R2K04	LF822
10	0.56	35	1	23	400	LQH4N100K04	LF103
12	0.62	35	1	21	380	LQH4N120K04	LF123
15	0.73	35	1	19	360	LQH4N150K04	LF153
18	0.82	35	1	17	340	LQH4N180K04	LF183
22	0.94	35	1	15	320	LQH4N220K04	LF223
27	1.1	35	1	14	300	LQH4N270K04	LF273
33	1.2	35	1	12	270	LQH4N330K04	LF333
39	1.4	35	1	11	240	LQH4N390K04	LF393
47	1.5	35	1	10	220	LQH4N470K04	LF473
56	1.7	35	1	9.3	200	LQH4N560K04	LF563
68	1.9	35	1	8.4	180	LQH4N680K04	LF683
82	2.2	35	1	7.5	170	LQH4N820K04	LF823
100	2.5	40	0.796	6.8	160	LQH4N101K04	LF104
120	3.0	40	0.796	6.2	150	LQH4N121K04	LF124
150	3.7	40	0.796	5.5	130	LQH4N151K04	LF154
180	4.5	40	0.796	5	120	LQH4N181K04	LF184
220	5.4	40	0.796	4.5	110	LQH4N221K04	LF224
270	6.8	40	0.796	4	100	LQH4N271K04	LF274
330	8.2	40	0.796	3.6	95	LQH4N331K04	LF334
390	9.7	40	0.796	3.3	90	LQH4N391K04	LF394
470	11.8	40	0.796	3	80	LQH4N471K04	LF474
560	14.5	40	0.796	2.7	70	LQH4N561K04	LF564
680	17	40	0.796	2.5	65	LQH4N681K04	LF684
820	20.5	40	0.796	2.2	60	LQH4N821K04	LF824
1000	25	40	0.252	2	50	LQH4N102K04	LF105
1200	30	40	0.252	1.8	45	LQH4N122K04	LF125
1500	37	40	0.252	1.6	40	LQH4N152K04	LF155

\* measured at 1MHz except ≥470µH (1kHz)



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