

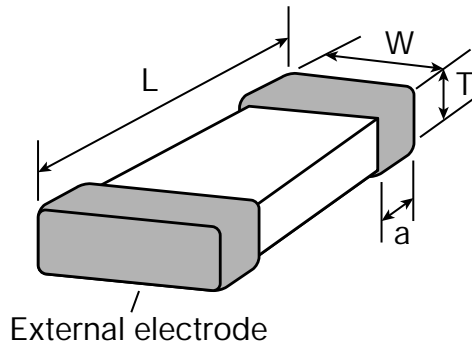


Low Value Multilayer Chip Inductors

Features

- Low inductance — down to 1.2 nano Henry's.
- Suitable for high frequency applications.
- Monolithic structure.
- Excellent solderability for either flow or reflow soldering.

Dimensions



Unit: mm (inch)

SERIES	L	W	T	a
LMCI 1608 (0603)	1.6 ± 0.15 (0.064 ± .006)	0.8 ± 0.15 (0.032 ± .006)	0.8 ± 0.15 (0.032 ± .006)	0.3 ± 0.2 (0.012 ± .008)
LMCI 2012 (0805)	2.0 ± 0.2 (0.080 ± .008)	1.25 ± 0.2 (0.050 ± .008)	0.85 ± 0.2 (0.034 ± .008) 1.00 ± 0.2 (0.040 ± .008)	0.5 ± 0.3 (0.020 ± .012)

Operating Temperature Range	-40 to +85° C
Storage Temperature Range	-55 to +125° C

How To Order

LMCI 1608

Series

—

3N9

Inductance
Value
3N9: 3.9nH
10N: 10nH
R10: 100nH

K

Tolerance
J: ± 5%
K: ± 10%
M: ± 20%
S: ± 0.3nH

T

Packaging
B: Bulk
T: Tape

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LMCI 1608 SERIES (0603) - Electrical Characteristics

Part Number	Inductance (at 100MHz)		Q Typ. (MHz)		S.R.F. (MHz) Typ.	R _{dc} (Ω) max.	I _{dc} (mA) max.	Q'ty/Reel (pcs)
	L (nH)	Tolerance	100	800 *500				
LMCI1608-1N2S □	1.2	S	13	60	6,000<	0.10	300	4,000
LMCI1608-1N5S □	1.5	S	13	47	6,000<	0.10	300	4,000
LMCI1608-1N8S □	1.8	S	12	51	6,000<	0.10	300	4,000
LMCI1608-2N2S □	2.2	S	12	38	6,000<	0.10	300	4,000
LMCI1608-2N7S □	2.7	S	12	38	6,000<	0.10	300	4,000
LMCI1608-3N3 □□	3.3	S, K	12	41	5,900	0.12	300	4,000
LMCI1608-3N9 □□	3.9	S, K	13	50	5,600	0.14	300	4,000
LMCI1608-4N7 □□	4.7	S, K	12	41	4,800	0.16	300	4,000
LMCI1608-5N6 □□	5.6	S, K	12	42	4,350	0.18	300	4,000
LMCI1608-6N8 □□	6.8	J, K	12	40	3,750	0.22	300	4,000
LMCI1608-8N2 □□	8.2	J, K	13	34	3,300	0.24	300	4,000
LMCI1608-10N □□	10.0	J, K	13	45	2,850	0.26	300	4,000
LMCI1608-12N □□	12.0	J, K	15	46	2,500	0.28	300	4,000
LMCI1608-15N □□	15.0	J, K	15	48	2,150	0.32	300	4,000
LMCI1608-18N □□	18.0	J, K	16	48	2,100	0.35	300	4,000
LMCI1608-22N □□	22.0	J, K	17	45	1,850	0.40	300	4,000
LMCI1608-27N □□	27.0	J, K	17	43	1,680	0.45	300	4,000
LMCI1608-33N □□	33.0	J, K	18	39	1,580	0.55	300	4,000
LMCI1608-39N □□	39.0	J, K	17	*37	1,400	0.60	300	4,000
LMCI1608-47N □□	47.0	J, K	17	*35	1,200	0.70	300	4,000
LMCI1608-56N □□	56.0	J, K	17	*32	1,100	0.75	300	4,000
LMCI1608-68N □□	68.0	J, K	18	*34	1,050	0.85	300	4,000
LMCI1608-82N □□	82.0	J, K	18	*32	900	1.50	300	4,000
LMCI1608-R10 □□	100.0	J, K	15	*16	850	2.10	300	4,000

- NOTE**
- L, Q: HP4191A at 100MHz (Test fixture: HP16092A)
 - S.R.F: Self-resonance Frequency; HP8753C (Test fixture: HP16091A)
 - R_{dc}: DC Resistance; VP-2811A
 - I_{pc}: Allowable Current
 - □ Inductance Tolerance (S = ±0.3nH, J = ±5%, K = ± 10%, M = ± 20%)

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Low Value Multilayer Chip Inductors

LMCI 2012 SERIES (0805) - Electrical Characteristics

Part Number	Inductance			Q Typ. (MHz)				S.R.F. (MHz) Typ.	R _{dc} (Ω) max.	I _{dc} (mA) max.	Q'ty/Reel (pcs)
	L (nH)	(MHz)	Tolerance	25	50	100	800				
LMCI2012-F1N5S□	1.5	100	S	—	—	13	40	6,000>	0.10	300	4,000
LMCI2012-F1N8S□	1.8	100	S	—	—	13	45	6,000>	0.10	300	4,000
LMCI2012-F2N2S□	2.2	100	S	—	—	13	48	6,000>	0.10	300	4,000
LMCI2012-F2N7S□	2.7	100	S	—	—	12	36	6,000>	0.10	300	4,000
LMCI2012-F3N3□□	3.3	100	S, K, M	—	—	13	56	6,000>	0.13	300	4,000
LMCI2012-F3N9□□	3.9	100	S, K, M	—	—	15	54	5,400	0.15	300	4,000
LMCI2012-F4N7□□	4.7	100	S, K, M	—	—	15	50	4,500	0.20	300	4,000
LMCI2012-F5N6□□	5.6	100	S, K, M	—	—	15	53	4,000	0.23	300	4,000
LMCI2012-F6N8□□	6.8	100	J, K, M	—	—	15	51	3,650	0.25	300	4,000
LMCI2012-F8N2□□	8.2	100	J, K, M	—	—	15	53	3,000	0.28	300	4,000
LMCI2012-F10N□□	10.0	100	J, K, M	—	—	16	45	2,500	0.30	300	4,000
LMCI2012-F12N□□	12.0	100	J, K, M	—	—	16	48	2,450	0.35	300	4,000
LMCI2012-F15N□□	15.0	100	J, K, M	—	—	17	48	2,000	0.40	300	4,000
LMCI2012-F18N□□	18.0	100	J, K, M	—	—	17	43	1,750	0.45	300	4,000
LMCI2012-F22N□□	22.0	100	J, K, M	—	—	17	47	1,700	0.50	300	4,000
LMCI2012-F27N□□	27.0	100	J, K, M	—	—	18	38	1,500	0.55	300	4,000
LMCI2012-F33N□□	33.0	100	J, K, M	—	—	18	35	1,350	0.60	300	4,000
LMCI2012-F39N□□	39.0	100	J, K, M	—	—	18	40	1,300	0.65	300	4,000
LMCI2012-F47N□□	47.0	100	J, K, M	—	—	18	33	1,200	0.70	300	3,000
LMCI2012-F56N□□	56.0	100	J, K, M	—	—	19	31	1,150	0.75	300	3,000
LMCI2012-F68N□□	68.0	100	J, K, M	—	—	19	28	1,000	0.80	300	3,000
LMCI2012-F82N□□	82.0	100	J, K, M	—	—	20	9	850	0.90	300	3,000
LMCI2012-FR10□□	100	100	J, K, M	—	13	18	—	730	1.00	300	3,000
LMCI2012-FR12□□	120	50	J, K, M	—	15	19	—	650	1.30	250	3,000
LMCI2012-FR15□□	150	50	J, K, M	—	16	20	—	550	1.50	250	3,000
LMCI2012-FR18□□	180	50	J, K, M	—	17	20	—	500	1.80	250	3,000
LMCI2012-FR22□□	220	50	J, K, M	—	17	20	—	450	2.00	200	3,000
LMCI2012-FR27□□	270	25	J, K, M	13	18	—	—	400	2.50	200	3,000
LMCI2012-FR33□□	330	25	J, K, M	15	18	—	—	380	3.00	150	3,000
LMCI2012-FR39□□	390	25	J, K, M	15	18	—	—	330	3.50	150	3,000
LMCI2012-FR47□□	470	25	J, K, M	13	16	—	—	300	4.00	100	3,000

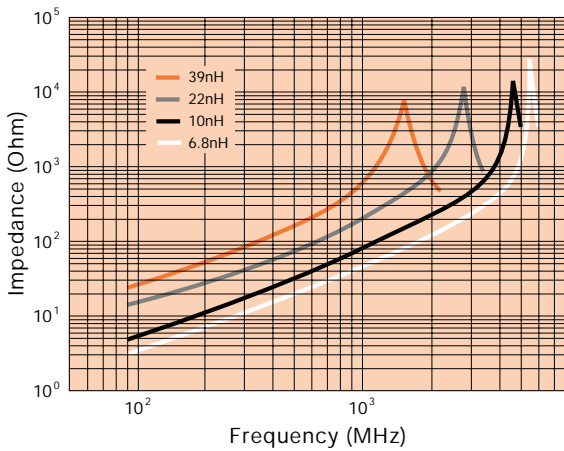
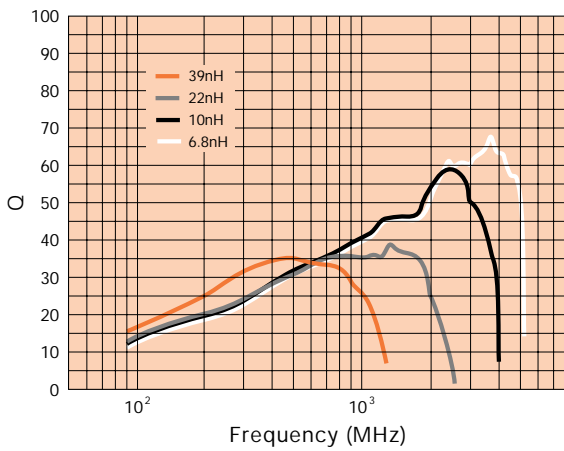
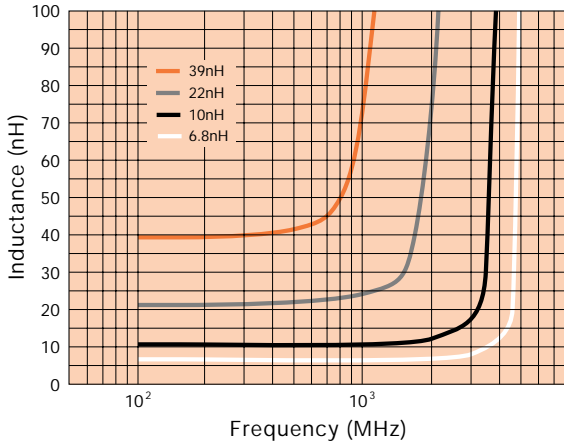
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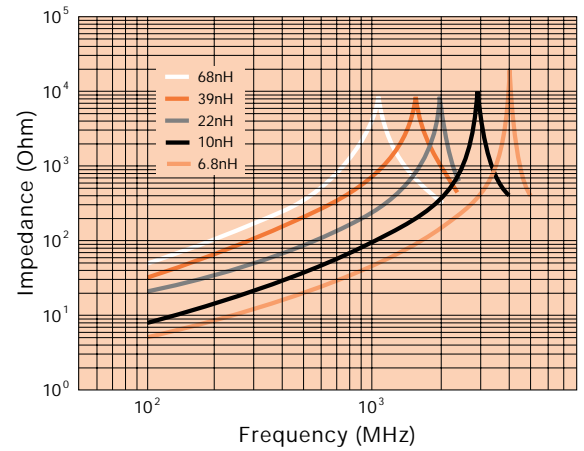
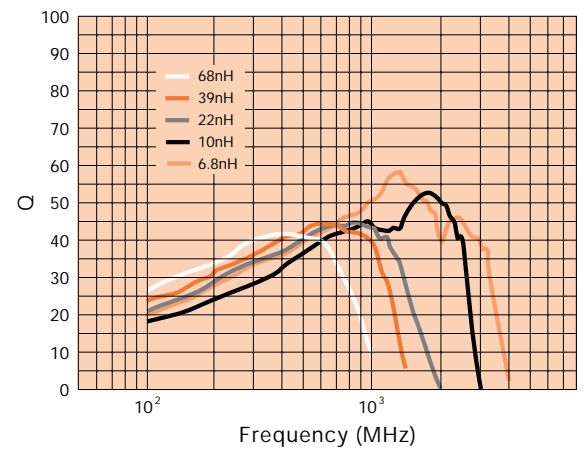
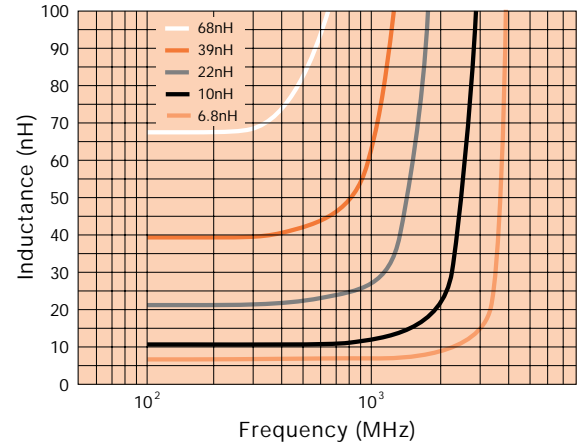
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