

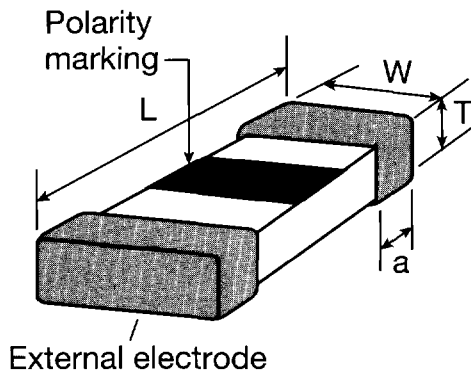


Low Value Multilayer Chip Inductors

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



Marking of polarity indicates the winding direction is upward. (Magnetic Flux Direction)

Unit: mm (inch)

TYPE	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)

How To Order

LMCI 1608

Type

F

Material Code

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

VENKEL CORP
4807 SPICEWOOD SPRINGS ROAD
BUILDING No. 3
AUSTIN, TX 78759

Phone: 512 / 794-0081
Fax: 512 / 794-0087
Toll Free: 800 / 950-8365
e-mail: sales@venkel.com
www.venkel.com

LMCI 1608 TYPE - Electrical Characteristics

Part Number	Inductance (at 100MHz)		Q Typ. (MHz)		S.R.F. (MHz) Typ.	R _{dc} (Ω) max.	I _{bc} (mA) max.	Q'ty/Reel (pcs)
	L (nH)	Tolerance	100	800 *500				
LMCI1608-F1N2S	1.2	S	13	60	6,000<	0.10	1,000	4,000
LMCI1608-F1N5S	1.5	S	13	47	6,000<	0.10	1,000	4,000
LMCI1608-F1N8S	1.8	S	12	51	6,000<	0.10	1,000	4,000
LMCI1608-F2N2S	2.2	S	12	38	6,000<	0.10	1,000	4,000
LMCI1608-F2N7S	2.7	S	12	38	6,000<	0.10	1,000	4,000
LMCI1608-F3N3□	3.3	S, K	12	41	5,900	0.12	1,000	4,000
LMCI1608-F3N9□	3.9	S, K	13	50	5,600	0.14	1,000	4,000
LMCI1608-F4N7□	4.7	S, K	12	41	4,800	0.16	1,000	4,000
LMCI1608-F5N6□	5.6	S, K	12	42	4,350	0.18	600	4,000
LMCI1608-F6N8□	6.8	J, K	12	40	3,750	0.22	600	4,000
LMCI1608-F8N2□	8.2	J, K	13	34	3,300	0.24	600	4,000
LMCI1608-F10N□	10.0	J, K	13	45	2,850	0.26	600	4,000
LMCI1608-F12N□	12.0	J, K	15	46	2,500	0.28	600	4,000
LMCI1608-F15N□	15.0	J, K	15	48	2,150	0.32	600	4,000
LMCI1608-F18N□	18.0	J, K	16	48	2,100	0.35	600	4,000
LMCI1608-F22N□	22.0	J, K	17	45	1,850	0.40	600	4,000
LMCI1608-F27N□	27.0	J, K	17	43	1,680	0.45	600	4,000
LMCI1608-F33N□	33.0	J, K	18	39	1,580	0.55	600	4,000
LMCI1608-F39N□	39.0	J, K	17	*37	1,400	0.60	500	4,000
LMCI1608-F47N□	47.0	J, K	17	*35	1,200	0.70	500	4,000
LMCI1608-F56N□	56.0	J, K	17	*32	1,100	0.75	500	4,000
LMCI1608-F68N□	68.0	J, K	18	*34	1,050	0.85	400	4,000
LMCI1608-F82N□	82.0	J, K	18	*32	900	1.50	300	4,000
LMCI1608-FR10□	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%)

VENKEL CORP
 4807 SPICEWOOD SPRINGS ROAD
 BUILDING No. 3
 AUSTIN, TX 78759

Phone: 512 / 794-0081
 Fax: 512 / 794-0087
 Toll Free: 800 / 950-8365
 e-mail: sales@venkel.com
 www.venkel.com



Low Value Multilayer Chip Inductors

LMCI 2012 TYPE - Electrical Characteristics

Part Number	Inductance			Q Typ. (MHz)				S.R.F. (MHz) Typ.	Rdc (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

NOTE

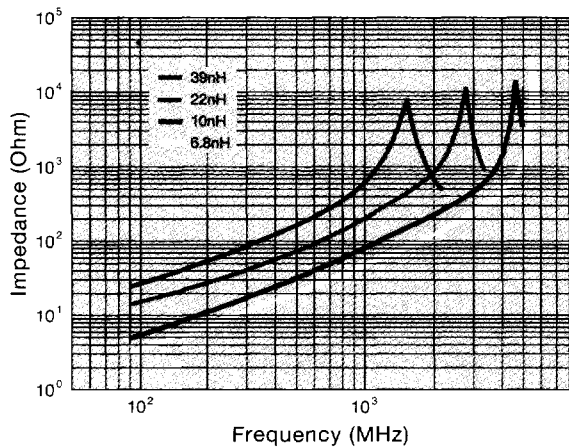
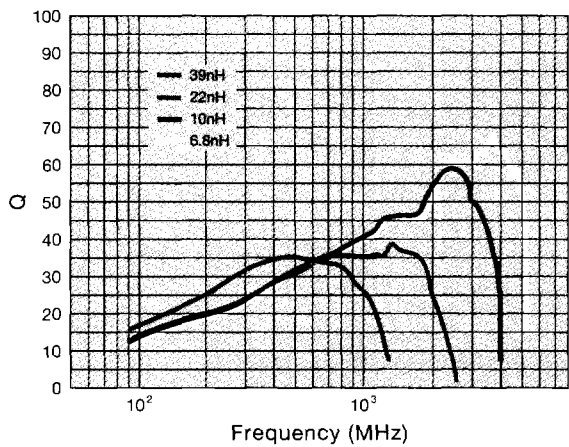
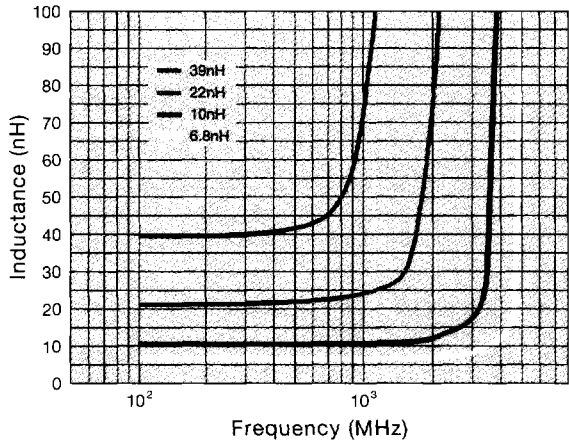
- L, Q; HP4191A at 100MHz (Test fixture: HP16092A)
- S.R.F: Self-resonance Frequency; HP8753C (Test fixture: HP16091A)
- Rdc: DC Resistance; VP-2811A
- I_{pc}: Allowable Current
- □ Inductance Tolerance (S = ±0.3nH, J = ±5%, K = ± 10%, M = ± 20%)

VENKEL CORP

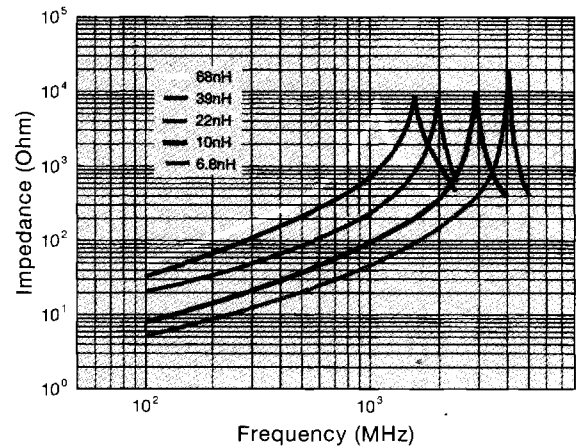
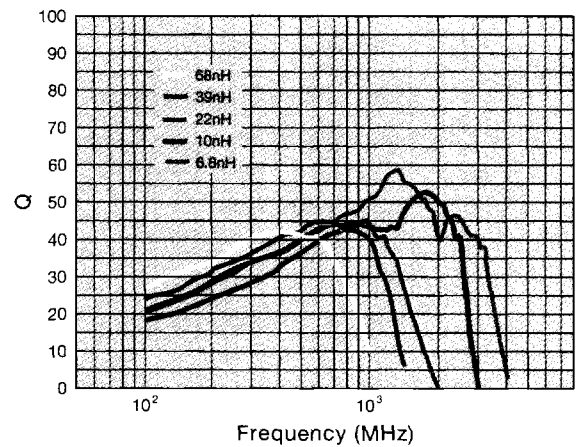
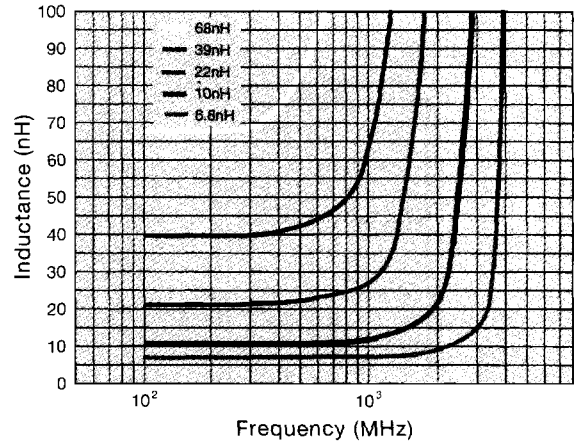
4807 SPICEWOOD SPRINGS ROAD
 BUILDING No. 3
 AUSTIN, TX 78759

Phone: 512 / 794-0081
 Fax: 512 / 794-0087
 Toll Free: 800 / 950-8365
 e-mail: sales@venkel.com
 www.venkel.com

1608



2012



VENKEL CORP
 4807 SPICEWOOD SPRINGS ROAD
 BUILDING No. 3
 AUSTIN, TX 78759

Phone: 512 / 794-0081
 Fax: 512 / 794-0087
 Toll Free: 800 / 950-8365
 e-mail: sales@venkel.com
 www.venkel.com