

# MULTILAYER HIGH FREQUENCY CHIP INDUCTORS / HCL TYPE

## FEATURES

- ◆ Cost Effective
- ◆ Small size of 1005/1608 is suitable for small portable equipment.
- ◆ Supports operating frequency up to 6GHz with nominal inductance values from 1.0nH to 220nH.
- ◆ Excellent Q factor and SRF characteristics.

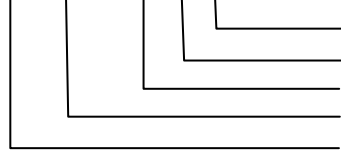


## APPLICATIONS

- ◆ Information technology equipments, computers, telecommunications, radar detectors, automotive electronics, cellular phones, pagers, PDAs, keyless remote systems.
- ◆ Use in L-C filter configurations

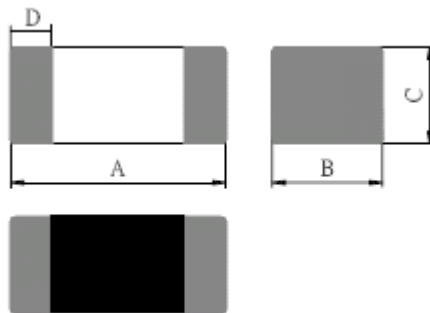
## ORDERING CODE (HIGH FREQUENCY)

HCL 1608 -1N5 □- N



Note: lead-free  
Tolerance (S:±0.3nH, J:±5%, K:±10%)  
Inductance  
Dimension (AxB)  
Product Symbol

## DIMENSIONS (UNIT: mm)



A	$1.6 \pm 0.15$	m/m
B	$0.8 \pm 0.15$	m/m
C	$0.8 \pm 0.15$	m/m
D	$0.3 \pm 0.20$	m/m



CORE MASTER ENTERPRISE CO., LTD.

<http://www.coremaster.com.tw>

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### ELECTRICAL CHARACTERISTICS FOR HCL1608

Part No.	Inductance (nH)	Q Min	Test Freq. (MHz)	Self Resonant Freq. (MHz) MIN.	DC Resistance ( $\Omega$ ) Max	Rated Current (mA) Max
HCL 1608-1N0 □-N	1.0	8	100	10000	0.10	600
HCL 1608-1N2 □-N	1.2	8	100	10000	0.10	600
HCL 1608-1N5 □-N	1.5	8	100	8000	0.10	600
HCL 1608-1N8 □-N	1.8	8	100	8000	0.10	600
HCL 1608-2N2 □-N	2.2	8	100	7200	0.10	600
HCL 1608-2N7 □-N	2.7	10	100	6200	0.10	600
HCL 1608-3N3 □-N	3.3	10	100	5200	0.12	600
HCL 1608-3N9 □-N	3.9	10	100	5000	0.14	600
HCL 1608-4N7 □-N	4.7	10	100	4750	0.16	600
HCL 1608-5N6 □-N	5.6	10	100	4100	0.18	600
HCL 1608-6N8 □-N	6.8	10	100	3750	0.22	600
HCL 1608-8N2 □-N	8.2	10	100	3300	0.24	600
HCL 1608-10N □-N	10	12	100	3000	0.26	600
HCL 1608-12N □-N	12	12	100	2600	0.28	600
HCL 1608-15N □-N	15	12	100	2500	0.32	600
HCL 1608-18N □-N	18	12	100	2400	0.35	600
HCL 1608-22N □-N	22	12	100	2000	0.40	500
HCL 1608-27N □-N	27	12	100	1900	0.45	500
HCL 1608-33N □-N	33	12	100	1600	0.55	400
HCL 1608-39N □-N	39	12	100	1400	0.60	400
HCL 1608-47N □-N	47	12	100	1300	0.70	400
HCL 1608-56N □-N	56	12	100	1100	0.75	400
HCL 1608-68N □-N	68	12	100	1050	0.85	400
HCL 1608-82N □-N	82	12	100	900	1.00	300
HCL 1608-R10 □-N	100	12	100	770	1.20	300
HCL 1608-R12 □-N	120	8	50	650	1.30	300
HCL 1608-R15 □-N	150	8	50	550	1.70	250
HCL 1608-R18 □-N	180	8	50	520	1.90	250
HCL 1608-R22 □-N	220	8	50	500	2.00	250



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