

# 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.

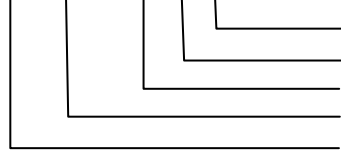


## APPLICATIONS

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

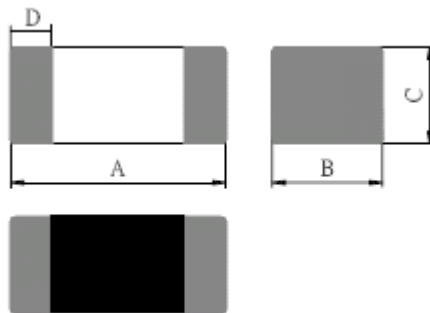
## ORDERING CODE (HIGH FREQUENCY)

HCL 1005 -1N5 □- N



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

## DIMENSIONS (UNIT: mm)



A	$1.00 \pm 0.1$	m/m
B	$0.50 \pm 0.1$	m/m
C	$0.50 \pm 0.1$	m/m
D	$0.25 \pm 0.1$	m/m



CORE MASTER ENTERPRISE CO., LTD.

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

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### ELECTRICAL CHARACTERISTICS FOR HCL1005

Part No.	Inductance (nH)	Q Min	Test Freq. (MHz)	Self Resonant Freq. (MHz) MIN.	DC Resistance ( $\Omega$ ) Max	Rated Current (mA) Max
HCL 1005-1N0 □-N	1.0	8	100	10000	0.10	400
HCL 1005-1N2 □-N	1.2	8	100	10000	0.10	400
HCL 1005-1N5 □-N	1.5	8	100	9000	0.10	400
HCL 1005-1N8 □-N	1.8	8	100	8700	0.10	400
HCL 1005-2N2 □-N	2.2	8	100	8100	0.15	400
HCL 1005-2N7 □-N	2.7	8	100	7700	0.15	400
HCL 1005-3N3 □-N	3.3	8	100	6300	0.15	400
HCL 1005-3N9 □-N	3.9	8	100	6100	0.20	400
HCL 1005-4N7 □-N	4.7	8	100	5400	0.20	400
HCL 1005-5N6 □-N	5.6	8	100	5100	0.20	400
HCL 1005-6N8 □-N	6.8	8	100	4550	0.25	400
HCL 1005-8N2 □-N	8.2	8	100	4100	0.30	300
HCL 1005-10N □-N	10	8	100	3900	0.35	300
HCL 1005-12N □-N	12	8	100	3000	0.40	300
HCL 1005-15N □-N	15	8	100	2800	0.50	300
HCL 1005-18N □-N	18	8	100	2500	0.55	300
HCL 1005-22N □-N	22	8	100	2200	0.70	300
HCL 1005-27N □-N	27	8	100	2000	0.80	300
HCL 1005-33N □-N	33	8	100	1800	0.90	200
HCL 1005-39N □-N	39	8	100	1600	1.00	150
HCL 1005-47N □-N	47	8	100	1400	1.20	150
HCL 1005-56N □-N	56	8	100	1300	1.30	150
HCL 1005-68N □-N	68	8	100	1100	1.50	100
HCL 1005-82N □-N	82	8	100	1000	1.60	100
HCL 1005-R10 □-N	100	8	100	900	2.00	100



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