

# MULTILAYER HIGH FREQUENCY CHIP INDUCTORS / HCL TYPE

## FEATURES

- ◆ Cost Effective
- ◆ Small size of 0603/ 1005/1608/2012 is suitable for small portable equipment.
- ◆ Supports operating frequency up to 6GHz with nominal inductance values from 1.0nH to 680nH.
- ◆ Excellent Q factor and SRF characteristics.

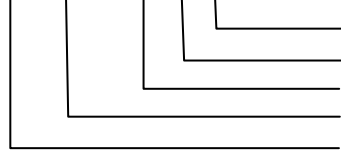


## APPLICATIONS

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

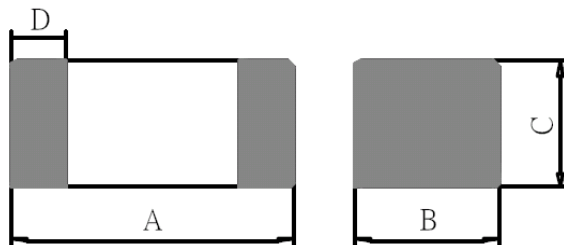
## ORDERING CODE (HIGH FREQUENCY)

HCL 2012 -1N5 □- N



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

## DIMENSIONS (UNIT: mm)



A	$2.00 \pm 0.2$	m/m
B	$1.25 \pm 0.2$	m/m
C	$0.85 \pm 0.2$	m/m
D	$0.50 \pm 0.3$	m/m

CORE MASTER ENTERPRISE CO., LTD.



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### ELECTRICAL CHARACTERISTICS FOR HCL2012

Part No.	Inductance (nH)	Q Min	Test Freq. (MHz)	Self Resonant Freq. (GHz) Min	DC Resistance (Ω) Max	Rated Current (mA) Max
HCL 2012-1N0 □-N	1.0	10	100	10	0.10	300
HCL 2012-1N2 □-N	1.2	10	100	10	0.11	300
HCL 2012-1N5 □-N	1.5	10	100	4.00	0.12	300
HCL 2012-1N8 □-N	1.8	10	100	4.00	0.13	300
HCL 2012-2N2 □-N	2.2	10	100	4.00	0.14	300
HCL 2012-2N7 □-N	2.7	12	100	4.00	0.15	300
HCL 2012-3N3 □-N	3.3	12	100	4.00	0.16	300
HCL 2012-3N9 □-N	3.9	12	100	4.00	0.18	300
HCL 2012-4N7 □-N	4.7	12	100	3.50	0.20	300
HCL 2012-5N6 □-N	5.6	15	100	3.20	0.23	300
HCL 2012-6N8 □-N	6.8	15	100	2.80	0.25	300
HCL 2012-8N2 □-N	8.2	15	100	2.40	0.28	300
HCL 2012-10N □-N	10	15	100	2.10	0.30	300
HCL 2012-12N □-N	12	15	100	1.90	0.35	300
HCL 2012-15N □-N	15	15	100	1.60	0.40	300
HCL 2012-18N □-N	18	15	100	1.50	0.45	300
HCL 2012-22N □-N	22	18	100	1.40	0.50	300
HCL 2012-27N □-N	27	18	100	1.30	0.55	300
HCL 2012-33N □-N	33	18	100	1.20	0.60	300
HCL 2012-39N □-N	39	18	100	1.00	0.65	300
HCL 2012-47N □-N	47	18	100	0.90	0.70	300
HCL 2012-56N □-N	56	18	100	0.80	0.75	300
HCL 2012-68N □-N	68	18	100	0.70	0.80	300
HCL 2012-82N □-N	82	18	100	0.60	0.85	300
HCL 2012-R10 □-N	100	18	100	0.60	0.90	300
HCL 2012-R12 □-N	120	13	50	0.50	0.95	300
HCL 2012-R15 □-N	150	13	50	0.50	1.00	300
HCL 2012-R18 □-N	180	13	50	0.40	1.10	300
HCL 2012-R22 □-N	220	12	50	0.35	1.20	300
HCL 2012-R27 □-N	270	12	50	0.30	1.30	300
HCL 2012-R33 □-N	330	12	50	0.25	1.40	300
HCL 2012-R39 □-N	390	10	50	0.25	1.60	300
HCL 2012-R47 □-N	470	10	50	0.20	2.00	300
HCL 2012-R56 □-N	560	10	25	0.18	5.00	50
HCL 2012-R68 □-N	680	10	25	0.16	5.50	50

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