

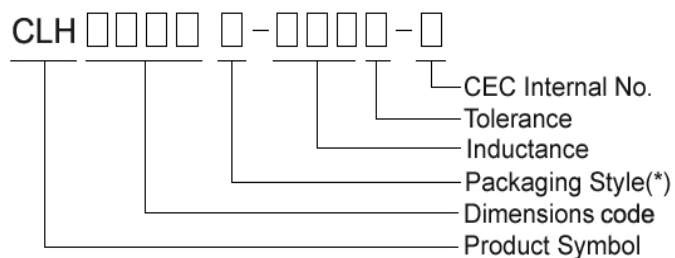
CLH Series



Features

- ROHS Compliant
- Excellent Q factor and SRF characteristics
- Cost Effective
- Small size of 1005 is suitable for small portable equipment.
- Low DCR

Product Identification



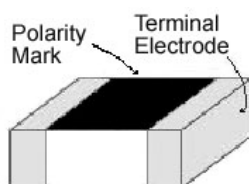
Applications

- RF Resonance and Impedance Matching Circuit
- RF and wireless communication
- Information technology equipment, computers, telecommunications, radar detectors, automotive electronics, cellular phones, pagers, PDAs, keyless remote systems.
- Use in L-C filter configurations

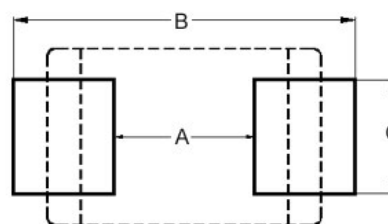
- : Tape and Reel ; B : Bulk
- Note: "-N" stands for lead-free.

Shapes and Dimensions

..



Recommended Pattern



Dimensions in mm

TYPE	A	B	C	D
CLH1005-S-NP	1.0±0.10	0.5±0.10	0.5±0.10	0.25±0.10

Dimensions in mm

TYPE	A	B	C
CLH1005-S-NP	0.4	1.2 ~ 1.4	0.5

SMD Multilayer Ceramic Chip Inductors - CLH Series

Electrical Characteristics

Part Number	Inductance (nH)	Tolerance (±%)	Test Frequency (MHz)	Q Min	SRF (MHz) Typ.	RDC (Ω) Max	Rated Current (mA) Max
CLH1005T-1N0□-S-NP	1.0	±0.2nH/±0.3nH	100	8	10000	0.07	400
CLH1005T-1N2□-S-NP	1.2	±0.2nH/±0.3nH	100	8	10000	0.09	400
CLH1005T-1N5□-S-NP	1.5	±0.3nH	100	8	9000	0.10	400
CLH1005T-1N8□-S-NP	1.8	±0.3nH	100	8	8700	0.10	400
CLH1005T-2N0□-S-NP	2.0	±0.3nH	100	8	8100	0.10	400
CLH1005T-2N2□-S-NP	2.2	±0.3nH	100	8	8100	0.12	400
CLH1005T-2N4□-S-NP	2.4	±0.3nH	100	8	7700	0.15	400
CLH1005T-2N7□-S-NP	2.7	±0.3nH	100	8	7700	0.15	400
CLH1005T-3N0□-S-NP	3.0	±0.3nH	100	8	6300	0.15	400
CLH1005T-3N3□-S-NP	3.3	±0.3nH	100	8	6300	0.15	400
CLH1005T-3N6□-S-NP	3.6	±0.3nH	100	8	6100	0.15	400
CLH1005T-3N9□-S-NP	3.9	±0.3nH	100	8	6100	0.18	400
CLH1005T-4N3□-S-NP	4.3	±0.3nH	100	8	6000	0.18	400
CLH1005T-4N7□-S-NP	4.7	±0.3nH	100	8	6000	0.18	400
CLH1005T-5N1□-S-NP	5.1	±0.3nH	100	8	5300	0.20	400
CLH1005T-5N6□-S-NP	5.6	±0.3nH	100	8	5100	0.20	400
CLH1005T-6N2□-S-NP	6.2	±0.3nH/5/10	100	8	4500	0.22	400
CLH1005T-6N8□-S-NP	6.8	5 / 10	100	8	4550	0.24	400
CLH1005T-7N5□-S-NP	7.5	5 / 10	100	8	4200	0.24	300
CLH1005T-8N2□-S-NP	8.2	5 / 10	100	8	4100	0.24	300
CLH1005T-9N1□-S-NP	9.1	5 / 10	100	8	3900	0.26	300
CLH1005T-10N□-S-NP	10	5 / 10	100	8	3900	0.26	300
CLH1005T-12N□-S-NP	12	5 / 10	100	8	3000	0.28	300
CLH1005T-15N□-S-NP	15	5 / 10	100	8	2500	0.32	300
CLH1005T-18N□-S-NP	18	5 / 10	100	8	2200	0.36	300
CLH1005T-22N□-S-NP	22	5 / 10	100	8	1900	0.42	300
CLH1005T-27N□-S-NP	27	5 / 10	100	8	1700	0.46	300
CLH1005T-33N□-S-NP	33	5 / 10	100	8	1600	0.58	200
CLH1005T-39N□-S-NP	39	5 / 10	100	8	1200	0.65	200
CLH1005T-47N□-S-NP	47	5 / 10	100	8	1000	0.72	200
CLH1005T-56N□-S-NP	56	5 / 10	100	8	800	0.82	200
CLH1005T-68N□-S-NP	68	5 / 10	100	8	800	0.92	180
CLH1005T-82N□-S-NP	82	5 / 10	100	8	700	1.20	150

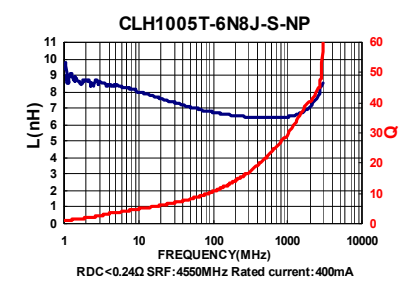
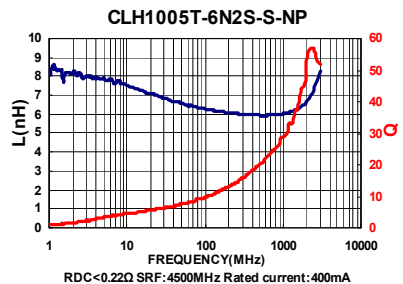
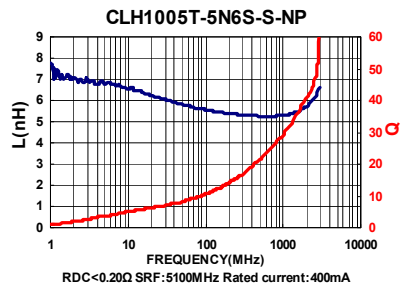
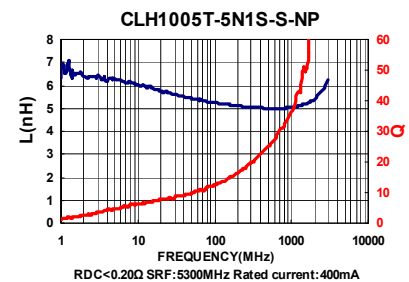
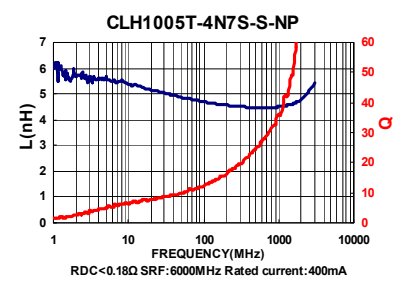
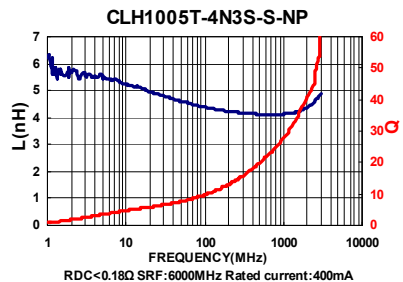
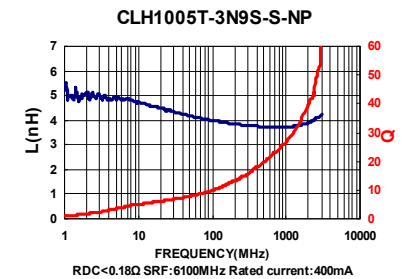
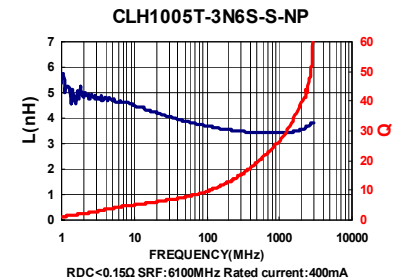
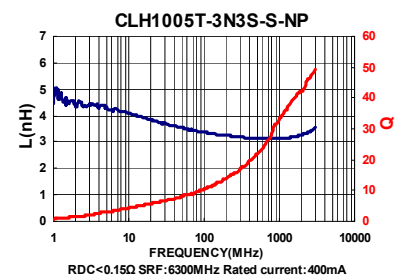
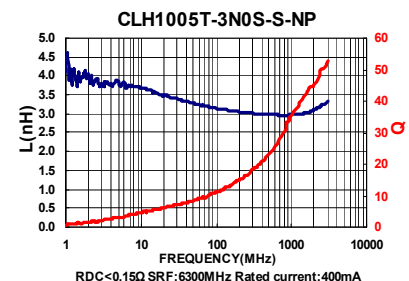
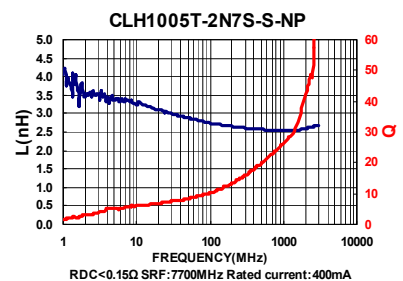
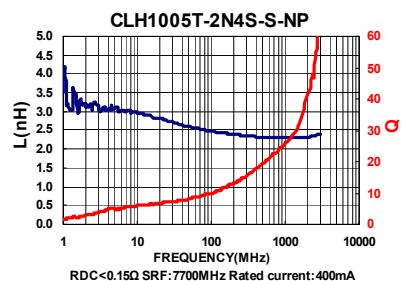
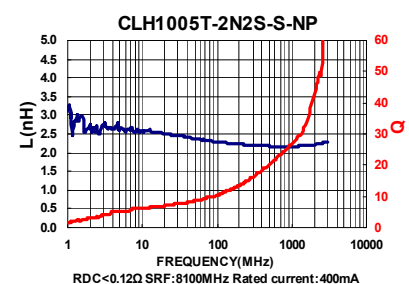
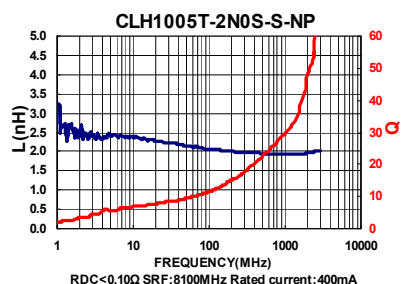
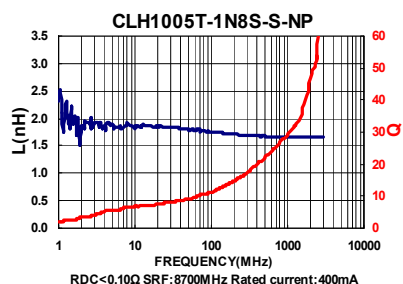
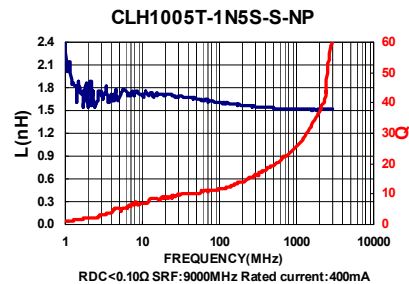
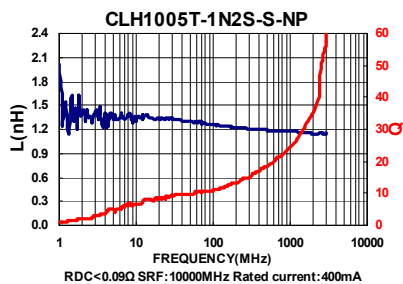
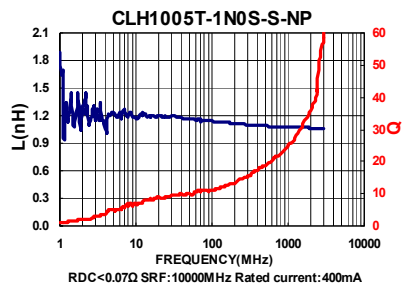
Note: When ordering, please specify tolerance code. Tolerance : C=±0.2nH , S=±0.3nH , J=±5% , K=±10%

- Operating temperature range - 55°C ~ 125°C(Including self - temperature rise)
- Rate Current : Applied the current to coils, the temperature rise shall not be more than 30°C
- Measure Equipment :
L & Q : Agilent E4991A+Agilent 16197A
SRF : HP8753D
RDC : HP4338B or CHEN HWA 502



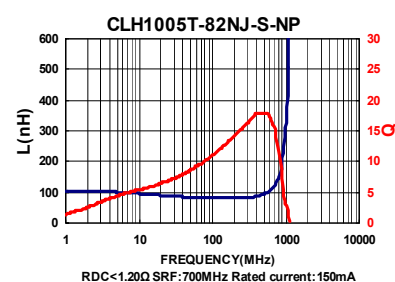
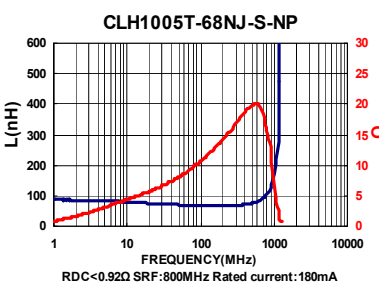
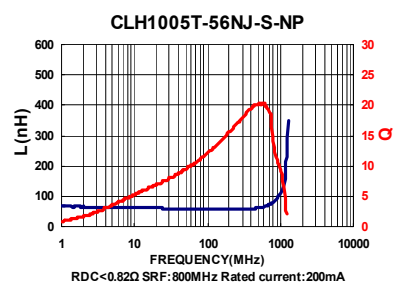
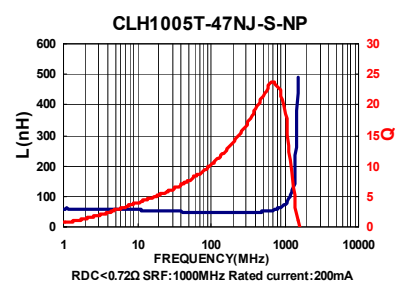
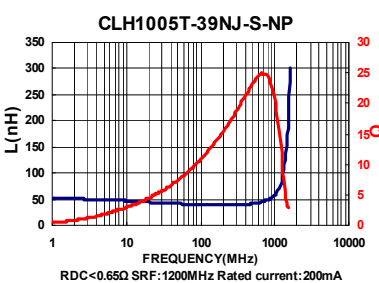
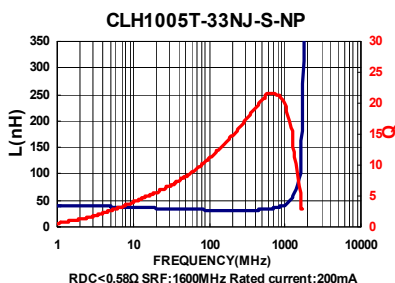
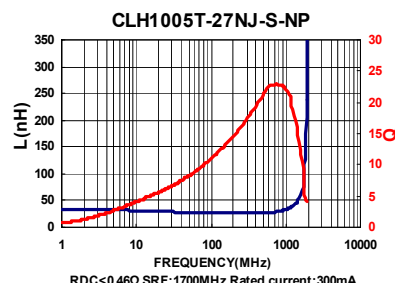
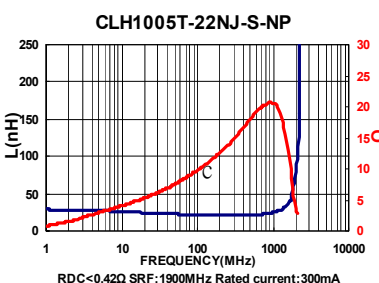
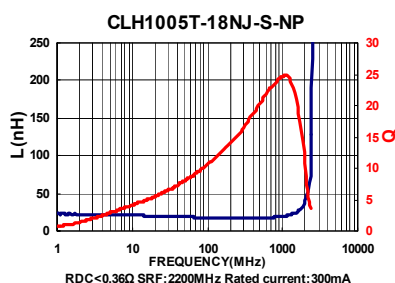
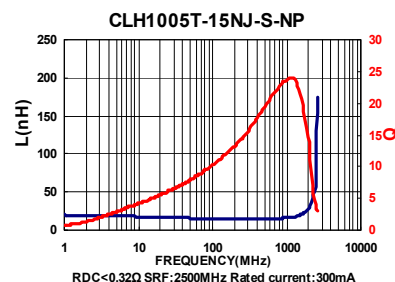
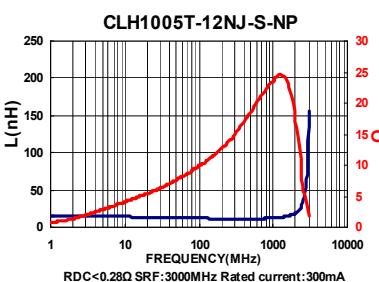
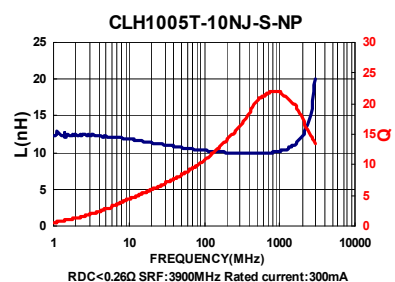
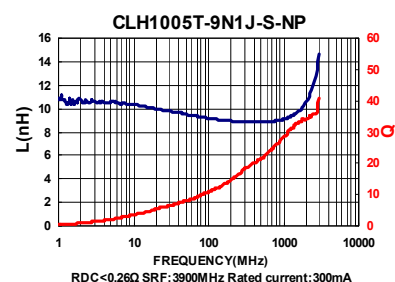
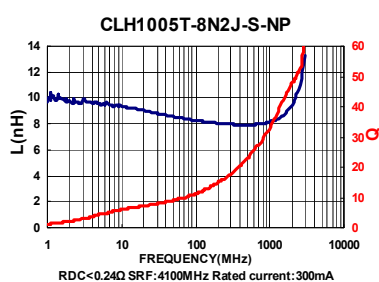
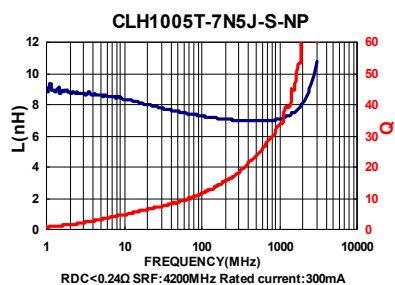
CHILISIN ELECTRONICS CORP.

Test Instruments : Agilent E4991A Material/Impedance Analyzer



SMD Multilayer Ceramic Chip Inductors - CLH Series

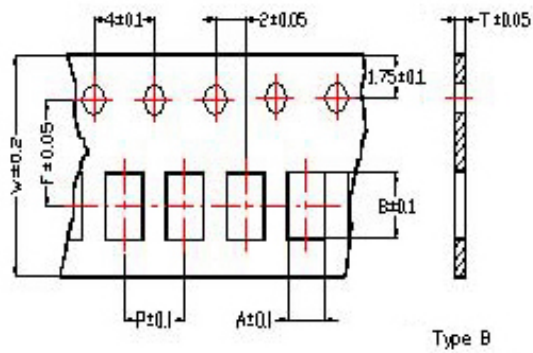
Test Instruments : Agilent E4991A Material/Impedance Analyzer



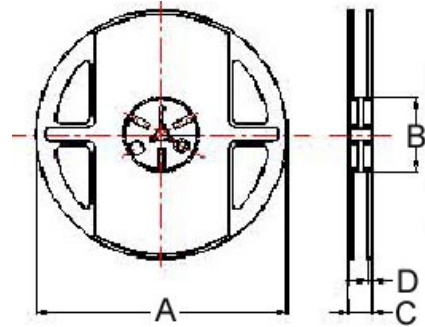
CHILISIN ELECTRONICS CORP.

SMD Multilayer Ceramic Chip Inductors - CLH Series

Packaging Specifications



Reel Dimensions



Dimensions in mm

TYPE	Tape Dimensions							Reel Dimensions				Recommended Pattern			Quantity PCS / Reel
	A	B	T	W	P	F	Tape	A	B	C	D	A	B	C	
CLH1005-S-NP	0.62	1.15	0.60	8	2	3.5	B	178	60	12	1.5	0.4	1.2 ~ 1.4	0.4	10000