

## CLH Series

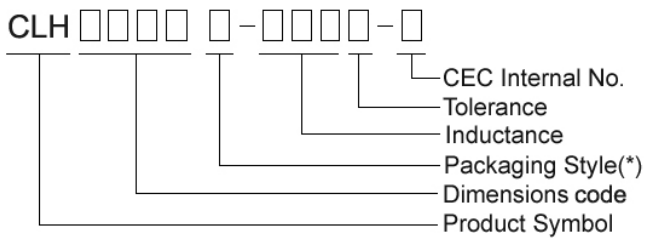
### Features

- RoHS compliant
- Excellent Q factor and SRF characteristics
- 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 470nH.

### 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

### Product Identification



- Packing Type: T: Taping B: Bulk
- Product series identification:

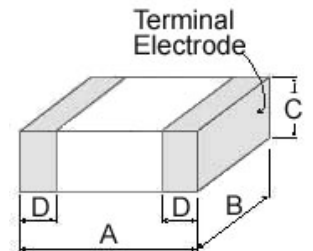
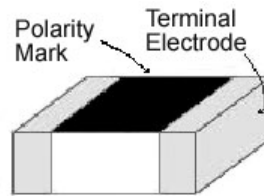
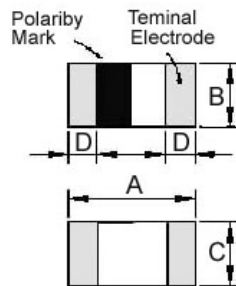
CLH0603-F: Top side half mark. CLH0603-W: White  
 CLH1005-S: Top side full mark. CLH1005-H: Top side half mark.  
 CLH1608-S: Top side full mark. CLH1608-H: Top side half mark. CLH1608-W: White  
 CLH2012-S: White

### Shapes and Dimensions

CLH0603-F Series  
 CLH1005-H Series  
 CLH1608-H Series

CLH1005-S Series  
 CLH1608-S Series

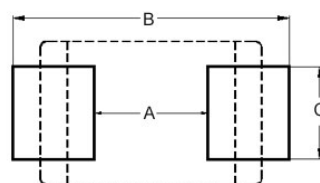
CLH0603-W Series  
 CLH1608-W Series  
 CLH2012-S Series



Dimensions in mm

TYPE	A	B	C	D
0603	0.6±0.03	0.3±0.03	0.3±0.03	0.15±0.05
1005	1.0±0.10	0.5±0.10	0.5±0.10	0.25±0.10
1608	1.6±0.15	0.8±0.15	0.8±0.15	0.3±0.2
2012 < 390 nH	2.0±0.2	1.25±0.2	0.9±0.2	0.5±0.3
2012 ≥ 390 nH	2.0±0.2	1.25±0.2	1.2±0.2	0.5±0.3

### Recommended Pattern



Dimensions in mm

TYPE	A	B	C
CLH0603	0.3	0.75 ~ 1.05	0.3
CLH1005	0.4	1.2 ~ 1.4	0.5
CLH1608	0.7 ~ 0.8	1.8 ~ 2.0	0.6 ~ 0.8
CLH2012	1.0 ~ 1.2	2.6 ~ 4.0	1.0 ~ 1.2

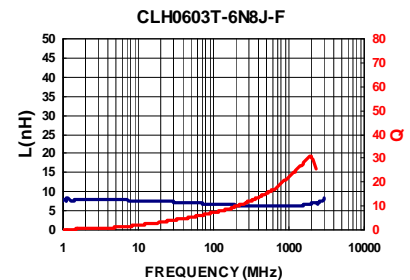
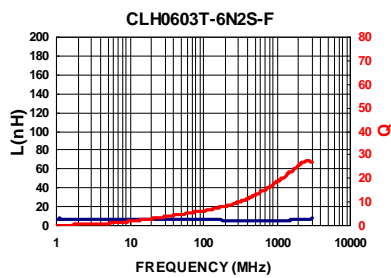
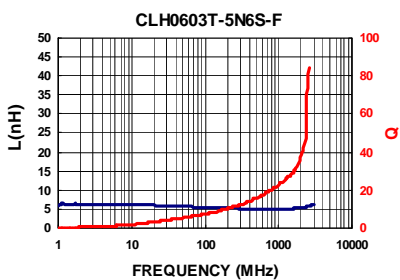
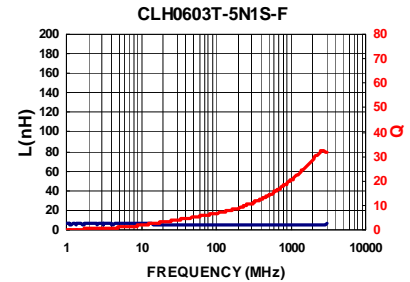
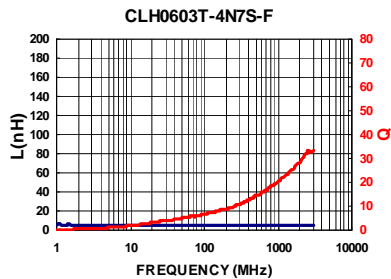
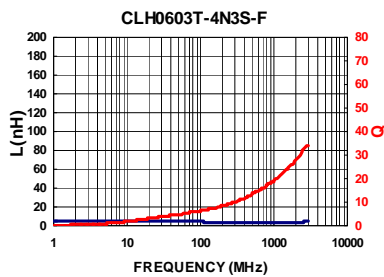
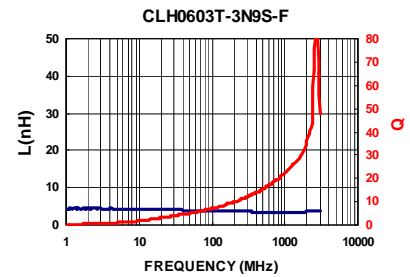
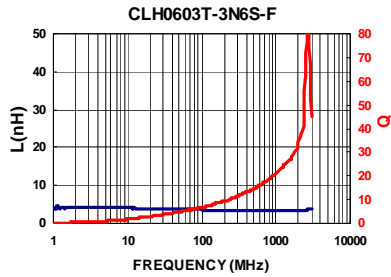
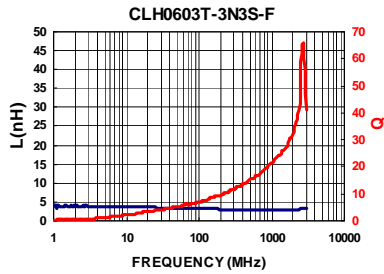
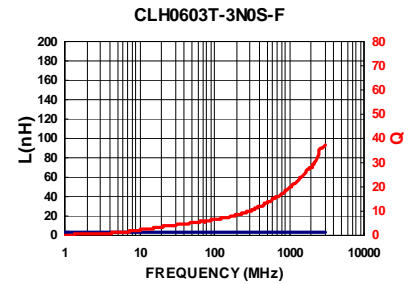
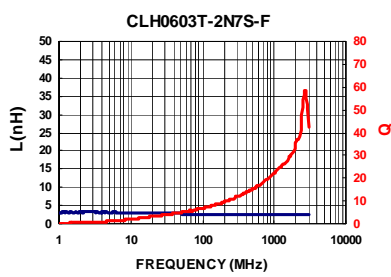
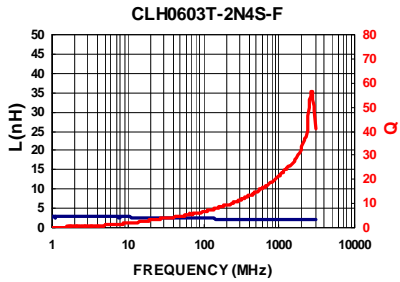
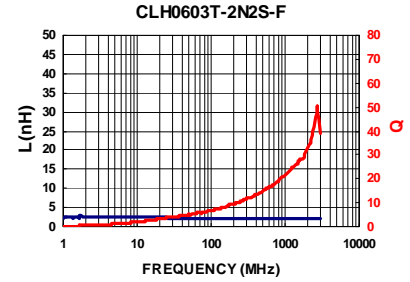
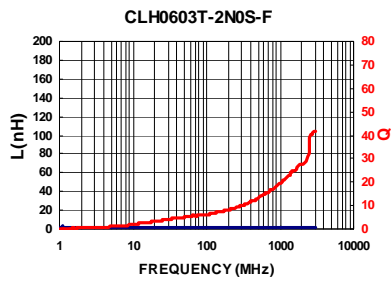
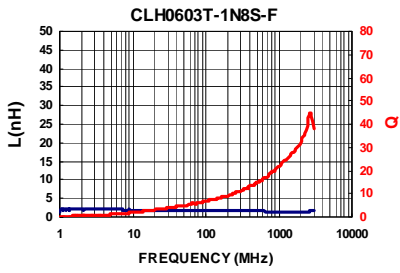
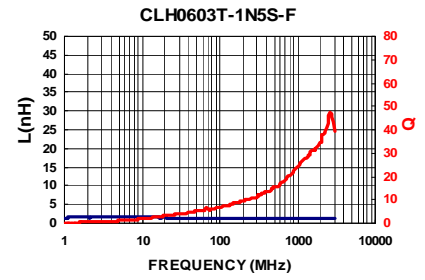
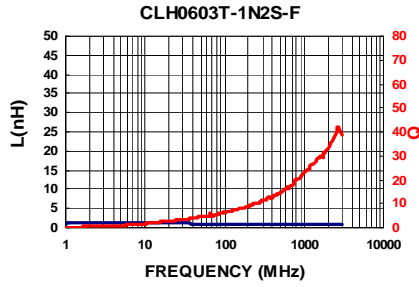
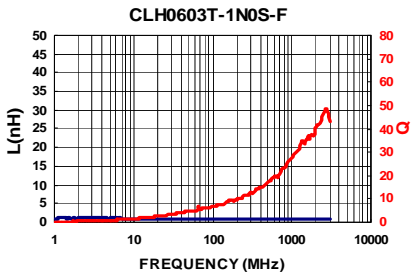
## Electrical Characteristics

Part Number	Inductance (nH) at 100MHz	Tolerance	Q Min at 100MHz	SRF (MHz) Min.	DC Resistance ( $\Omega$ ) Max.	Rated Current (mA) Max.
CLH0603T-1N0□-F	1.0	S	4	>10000	0.11	470
CLH0603T-1N2□-F	1.2	S	4	>10000	0.12	450
CLH0603T-1N5□-F	1.5	S	4	>10000	0.13	430
CLH0603T-1N8□-F	1.8	S	4	>10000	0.16	390
CLH0603T-2N0□-F	2.0	S	4	>10000	0.17	380
CLH0603T-2N2□-F	2.2	S	4	8800	0.19	360
CLH0603T-2N4□-F	2.4	S	4	8300	0.20	350
CLH0603T-2N7□-F	2.7	S	4	7700	0.21	340
CLH0603T-3N0□-F	3.0	S	4	7200	0.22	330
CLH0603T-3N3□-F	3.3	S	4	6700	0.23	320
CLH0603T-3N6□-F	3.6	S	4	6400	0.25	310
CLH0603T-3N9□-F	3.9	S	4	6000	0.27	300
CLH0603T-4N3□-F	4.3	S	4	5700	0.30	280
CLH0603T-4N7□-F	4.7	S	4	5300	0.30	280
CLH0603T-5N1□-F	5.1	S	4	5000	0.33	270
CLH0603T-5N6□-F	5.6	S	4	4600	0.36	260
CLH0603T-6N2□-F	6.2	S	4	4200	0.38	250
CLH0603T-6N8□-F	6.8	J	4	3900	0.39	250
CLH0603T-7N5□-F	7.5	J	4	3600	0.41	240
CLH0603T-8N2□-F	8.2	J	4	3400	0.45	230
CLH0603T-9N1□-F	9.1	J	4	3200	0.48	220
CLH0603T-10N□-F	10	J	4	2900	0.51	220
CLH0603T-12N□-F	12	J	4	2700	0.68	190
CLH0603T-15N□-F	15	J	4	2300	0.71	180
CLH0603T-18N□-F	18	J	4	2100	0.81	170
CLH0603T-22N□-F	22	J	4	1800	1.00	150
CLH0603T-27N□-F	27	J	4	1800	1.35	120
CLH0603T-33N□-F	33	J	4	1700	1.47	110
CLH0603T-39N□-F	39	J	4	1500	1.72	100
CLH0603T-47N□-F	47	J	4	1300	1.90	100
CLH0603T-56N□-F	56	J	4	1100	2.27	80
CLH0603T-68N□-F	68	J	4	1100	2.66	80
CLH0603T-82N□-F	82	J	4	1000	3.37	70
CLH0603T-R10□-F	100	J	4	900	3.74	60

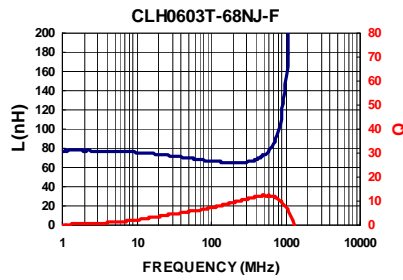
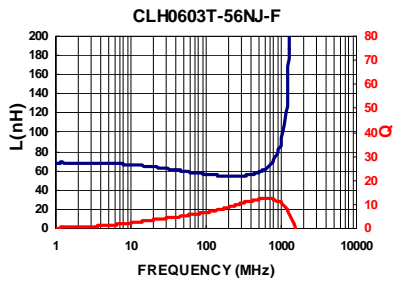
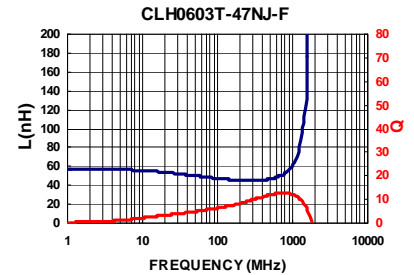
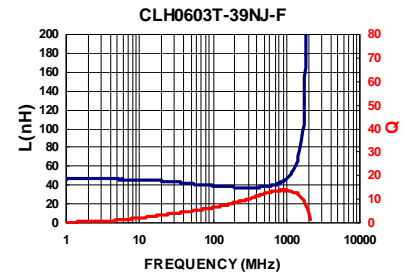
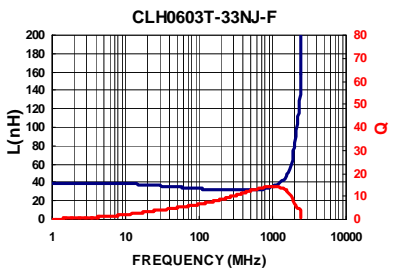
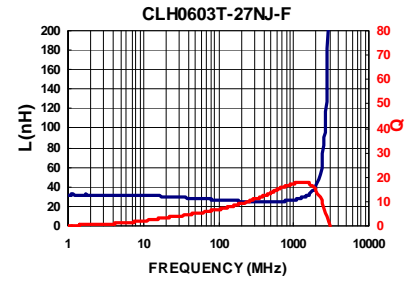
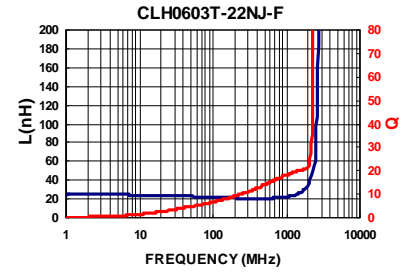
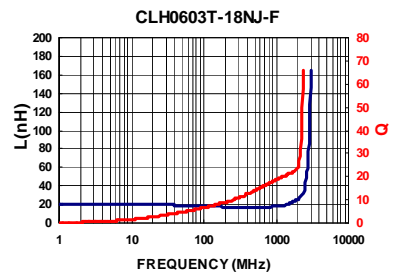
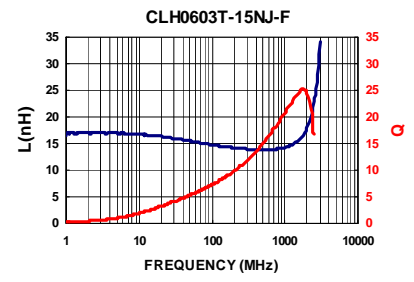
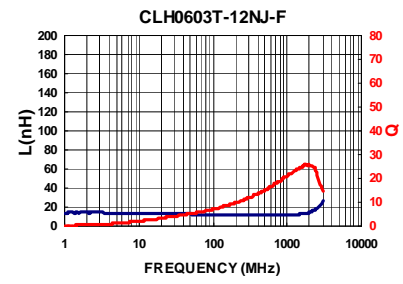
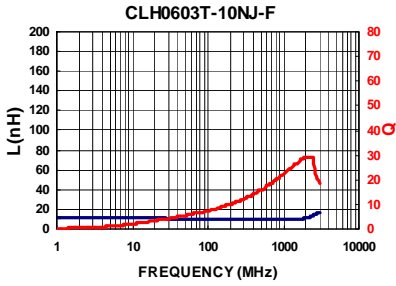
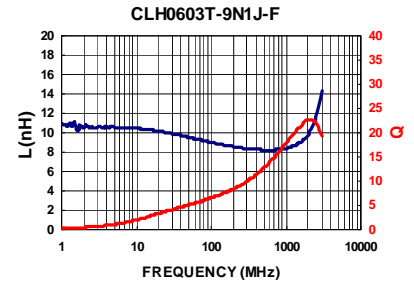
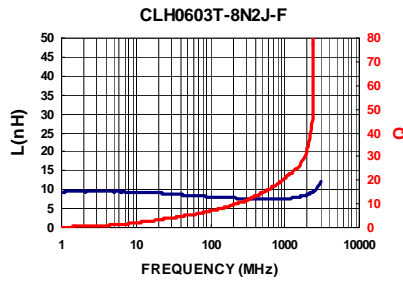
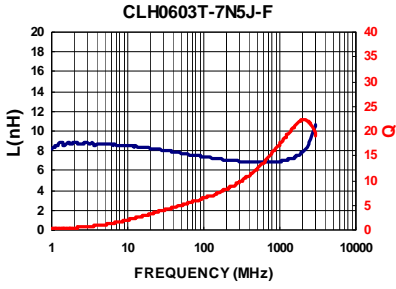
● Tolerance : S =  $\pm 0.3$  nH ; J =  $\pm 5\%$

● Test Instruments : L/Q : Agilent E4991A      Fixture : Agilent 16197A  
 SRF : HPE4991A/ HP19196C  
 RDC : HP4338B/ CH502BC

## Test Instruments : HP4291A Material/Impedance Analyzer



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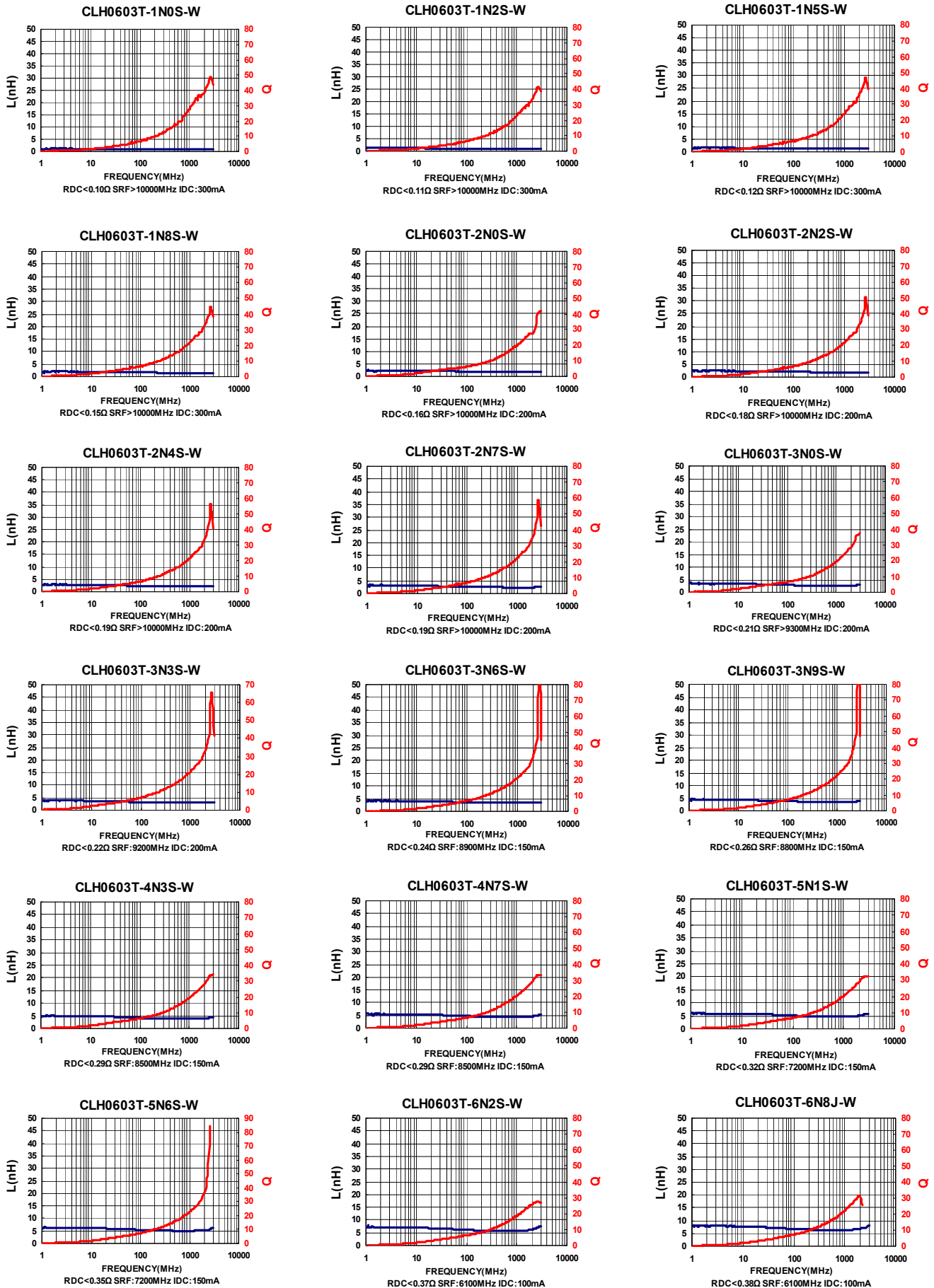
## Electrical Characteristics

Part Number	Inductance (nH) at 100MHz	Tolerance	Q Min at 100MHz	SRF (MHz) Typ	DC Resistance ( $\Omega$ ) Max	IDC (mA) Max
CLH0603T-1N0□-W	1.0	S	4	>10000	0.10	300
CLH0603T-1N2□-W	1.2	S	4	>10000	0.11	300
CLH0603T-1N5□-W	1.5	S	4	>10000	0.12	300
CLH0603T-1N8□-W	1.8	S	4	>10000	0.15	300
CLH0603T-2N0□-W	2.0	S	4	>10000	0.16	200
CLH0603T-2N2□-W	2.2	S	4	>10000	0.18	200
CLH0603T-2N4□-W	2.4	S	4	>10000	0.19	200
CLH0603T-2N7□-W	2.7	S	4	>10000	0.19	200
CLH0603T-3N0□-W	3.0	S	4	9300	0.21	200
CLH0603T-3N3□-W	3.3	S	4	9200	0.22	200
CLH0603T-3N6□-W	3.6	S	4	8900	0.24	150
CLH0603T-3N9□-W	3.9	S	4	8800	0.26	150
CLH0603T-4N3□-W	4.3	S	4	8500	0.29	150
CLH0603T-4N7□-W	4.7	S	4	8500	0.29	150
CLH0603T-5N1□-W	5.1	S	4	7200	0.32	150
CLH0603T-5N6□-W	5.6	S	4	7200	0.35	150
CLH0603T-6N2□-W	6.2	S	4	6100	0.37	100
CLH0603T-6N8□-W	6.8	J	4	6100	0.38	100
CLH0603T-7N5□-W	7.5	J	4	5800	0.40	100
CLH0603T-8N2□-W	8.2	J	4	5800	0.44	100
CLH0603T-9N1□-W	9.1	J	4	4600	0.47	100
CLH0603T-10N□-W	10	J	4	4600	0.50	100
CLH0603T-12N□-W	12	J	4	3800	0.67	100
CLH0603T-15N□-W	15	J	3.5	3800	0.80	90
CLH0603T-18N□-W	18	J	3.5	3300	1.21	80
CLH0603T-22N□-W	22	J	3.5	3000	1.32	70
CLH0603T-27N□-W	27	J	3.5	2800	1.34	50
CLH0603T-33N□-W	33	J	3.5	2500	1.45	50
CLH0603T-39N□-W	39	J	3.5	1900	1.71	50
CLH0603T-47N□-W	47	J	3.5	1600	1.89	50
CLH0603T-56N□-W	56	J	3.5	1400	2.26	50
CLH0603T-68N□-W	68	J	3.5	1200	2.65	50

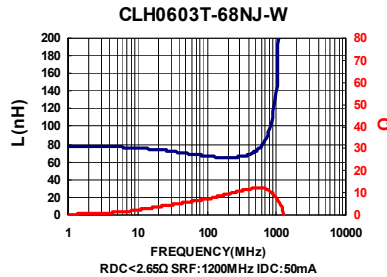
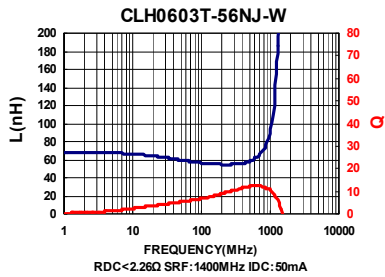
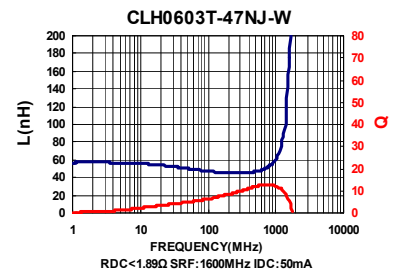
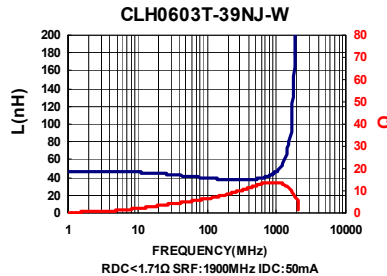
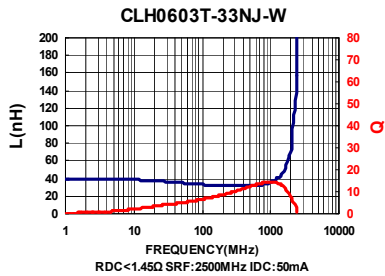
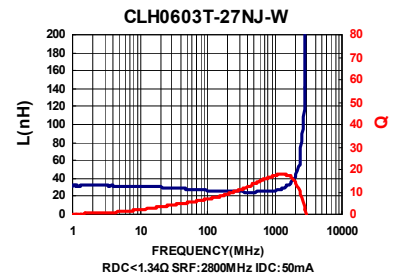
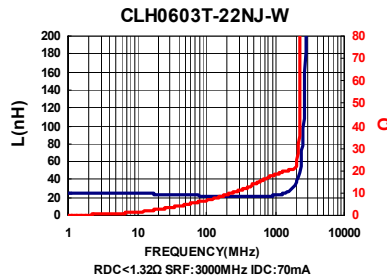
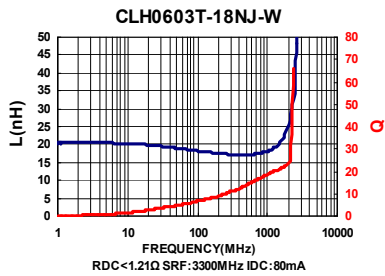
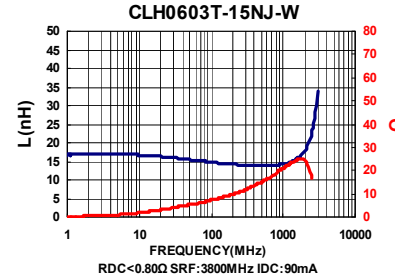
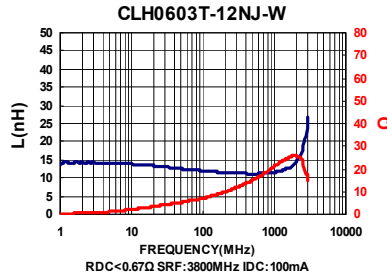
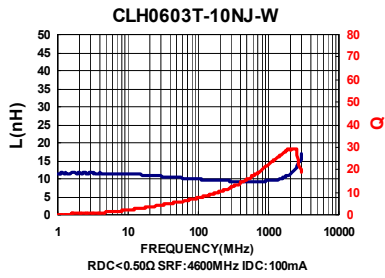
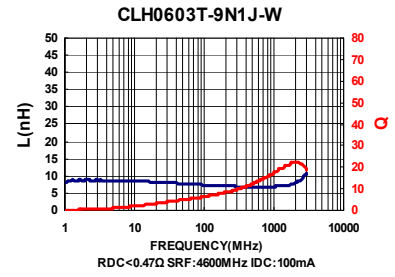
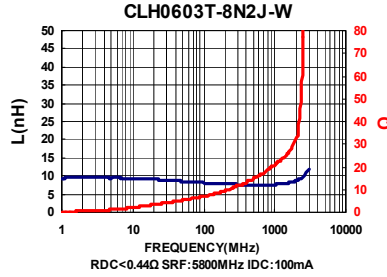
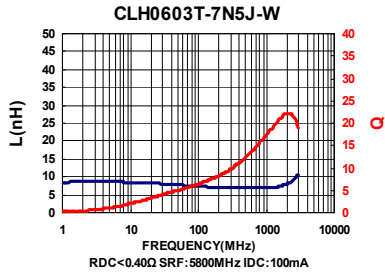
● Tolerance : S =  $\pm 0.3$  nH ; J =  $\pm 5\%$

● Test Instruments : L/Q : Agilent E4991A      Fixture : Agilent 16197A  
 SRF : HPE4991A/ HP19196C  
 RDC : HP4338B/ CH502BC

Test Instruments : HP4291A Material/Impedance Analyzer



## Test Instruments : HP4291A Material/Impedance Analyzer



## Electrical Characteristics

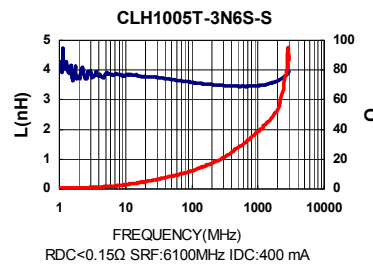
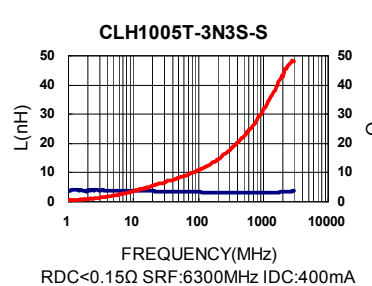
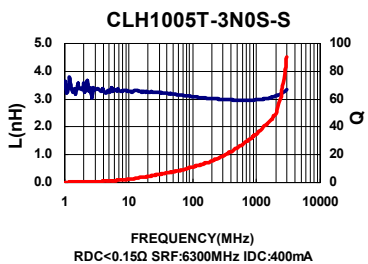
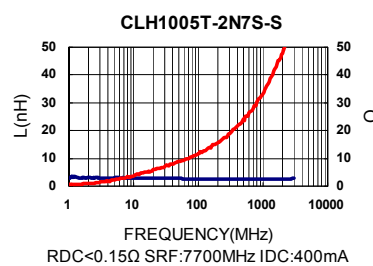
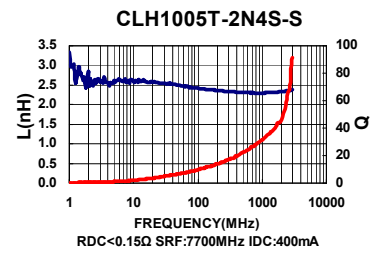
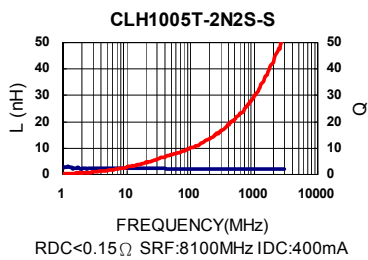
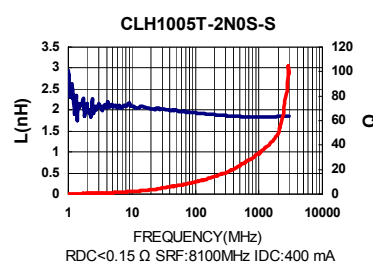
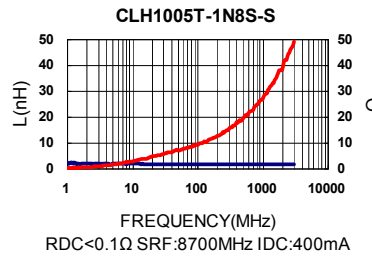
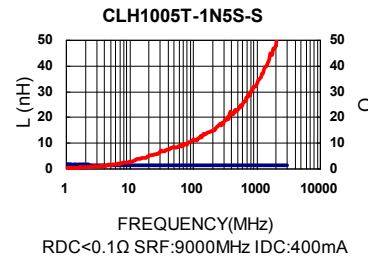
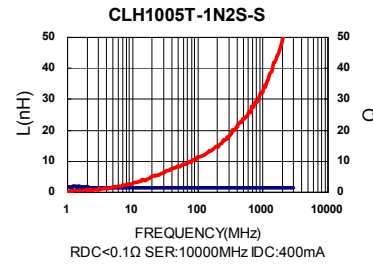
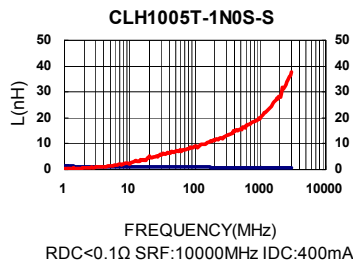
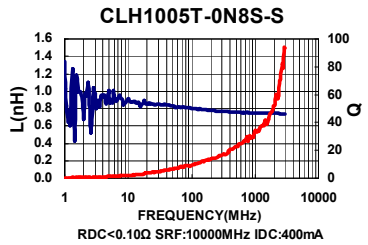
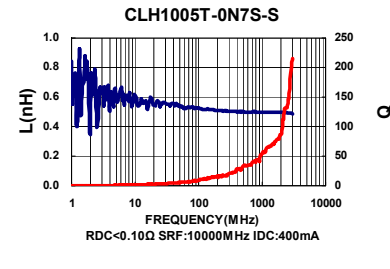
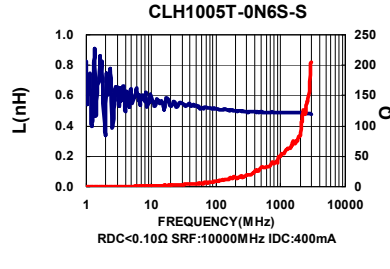
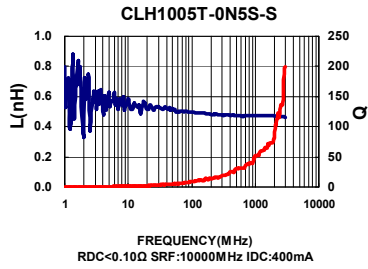
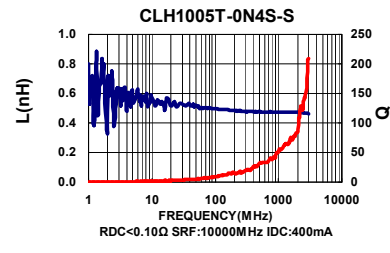
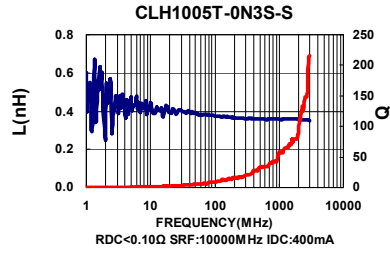
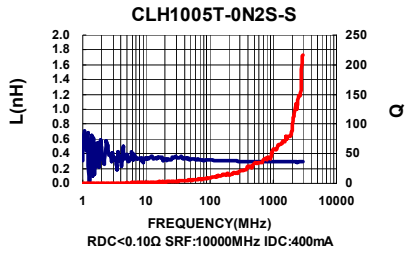
Part Number	Inductance (nH) at 100MHz	Tolerance	Q Min At 100MHz	SRF (MHz) Typ	DC Resistance ( $\Omega$ ) Max	IDC (mA) Max
CLH1005T-0N2□-S	0.2	S	8	10000	0.10	400
CLH1005T-0N3□-S	0.3	S	8	10000	0.10	400
CLH1005T-0N4□-S	0.4	S	8	10000	0.10	400
CLH1005T-0N5□-S	0.5	S	8	10000	0.10	400
CLH1005T-0N6□-S	0.6	S	8	10000	0.10	400
CLH1005T-0N7□-S	0.7	S	8	10000	0.10	400
CLH1005T-0N8□-S	0.8	S	8	10000	0.10	400
CLH1005T-1N0□-S	1.0	S	8	10000	0.10	400
CLH1005T-1N2□-S	1.2	S	8	10000	0.10	400
CLH1005T-1N5□-S	1.5	S	8	9000	0.10	400
CLH1005T-1N8□-S	1.8	S	8	8700	0.10	400
CLH1005T-2N0□-S	2.0	S	8	8100	0.15	400
CLH1005T-2N2□-S	2.2	S	8	8100	0.15	400
CLH1005T-2N4□-S	2.4	S	8	7700	0.15	400
CLH1005T-2N7□-S	2.7	S	8	7700	0.15	400
CLH1005T-3N0□-S	3.0	S	8	6300	0.15	400
CLH1005T-3N3□-S	3.3	S / K	8	6300	0.15	400
CLH1005T-3N6□-S	3.6	S / K	8	6100	0.15	400
CLH1005T-3N9□-S	3.9	S / K	8	6100	0.20	400
CLH1005T-4N3□-S	4.3	S / K	8	5400	0.20	400
CLH1005T-4N7□-S	4.7	S / K	8	5400	0.20	400
CLH1005T-5N6□-S	5.6	S / K	8	5100	0.20	400
CLH1005T-6N8□-S	6.8	J / K	8	4550	0.25	400
CLH1005T-8N2□-S	8.2	J / K	8	4100	0.30	300
CLH1005T-10N□-S	10	J / K	8	3900	0.35	300
CLH1005T-12N□-S	12	J / K	8	3000	0.40	300
CLH1005T-15N□-S	15	J / K	8	2800	0.50	300
CLH1005T-18N□-S	18	J / K	8	2500	0.55	300
CLH1005T-22N□-S	22	J / K	8	2200	0.70	300
CLH1005T-27N□-S	27	J / K	8	2000	0.80	300
CLH1005T-33N□-S	33	J / K	8	1800	0.9	200
CLH1005T-39N□-S	39	J / K	8	1600	1.0	150
CLH1005T-47N□-S	47	J / K	8	1400	1.2	150
CLH1005T-56N□-S	56	J / K	8	1300	1.3	150
CLH1005T-68N□-S	68	J / K	8	1100	1.5	100
CLH1005T-82N□-S	82	J / K	8	1000	1.6	100
CLH1005T-R10□-S	100	J / K	8	900	2.0	100
CLH1005T-R12□-S	120	J / K	8	800	2.2	100

● Tolerance : S =  $\pm 0.3\text{nH}$  , J =  $\pm 5\%$  , K =  $\pm 10\%$

● Test Instruments : L/Q : Agilent E4991A      Fixture : Agilent 16197A  
 SRF : HP8753D  
 RDC : HP4338B/ CH502BC



Test Instruments : HP4291A Material/Impedance Analyzer





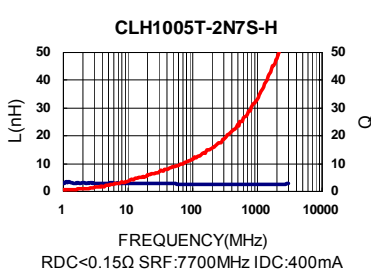
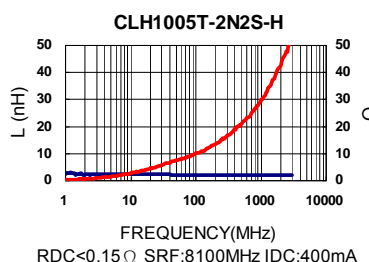
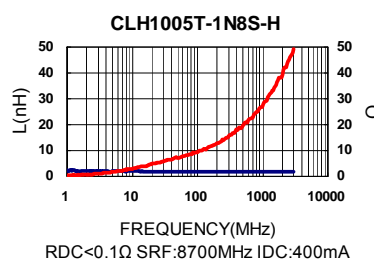
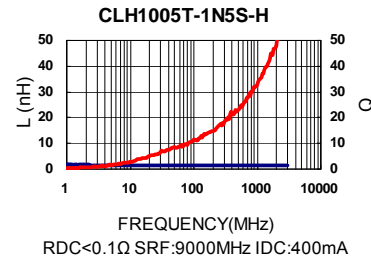
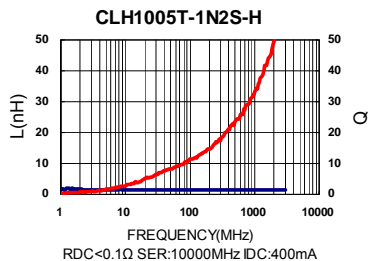
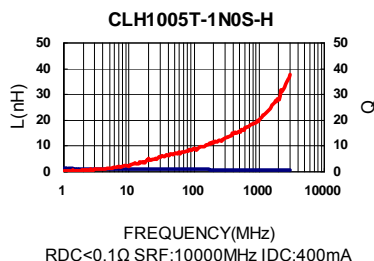
## Electrical Characteristics

Part Number	Inductance (nH) at 100MHz	Tolerance	Q Min At 100MHz	SRF (MHz) Typ	DC Resistance (Ω) Max	IDC (mA) Max
CLH1005T-1N0□-H	1.0	S	8	10000	0.10	400
CLH1005T-1N2□-H	1.2	S	8	10000	0.10	400
CLH1005T-1N5□-H	1.5	S	8	9000	0.10	400
CLH1005T-1N8□-H	1.8	S	8	8700	0.10	400
CLH1005T-2N2□-H	2.2	S	8	8100	0.15	400
CLH1005T-2N7□-H	2.7	S	8	7700	0.15	400
CLH1005T-3N0□-H	3.0	S	8	6300	0.15	400
CLH1005T-3N3□-H	3.3	S / K	8	6300	0.15	400
CLH1005T-3N9□-H	3.9	S / K	8	6100	0.20	400
CLH1005T-4N7□-H	4.7	S / K	8	5400	0.20	400
CLH1005T-5N6□-H	5.6	S / K	8	5100	0.20	400
CLH1005T-6N8□-H	6.8	J / K	8	4550	0.25	400
CLH1005T-8N2□-H	8.2	J / K	8	4100	0.30	300
CLH1005T-10N□-H	10	J / K	8	3900	0.35	300
CLH1005T-12N□-H	12	J / K	8	3000	0.40	300
CLH1005T-15N□-H	15	J / K	8	2800	0.50	300
CLH1005T-18N□-H	18	J / K	8	2500	0.55	300
CLH1005T-22N□-H	22	J / K	8	2200	0.70	300
CLH1005T-27N□-H	27	J / K	8	2000	0.80	300
CLH1005T-33N□-H	33	J / K	8	1800	0.9	200
CLH1005T-39N□-H	39	J / K	8	1600	1.0	150
CLH1005T-47N□-H	47	J / K	8	1400	1.2	150
CLH1005T-56N□-H	56	J / K	8	1300	1.3	150
CLH1005T-68N□-H	68	J / K	8	1100	1.5	100
CLH1005T-82N□-H	82	J / K	8	1000	1.6	100
CLH1005T-R10□-H	100	J / K	8	900	2.0	100
CLH1005T-R12□-H	120	J / K	8	800	2.2	100

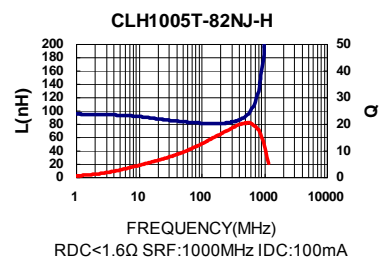
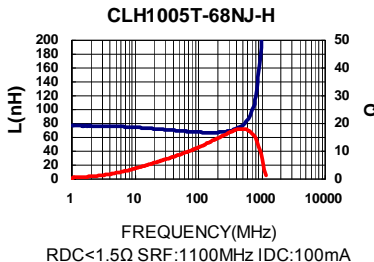
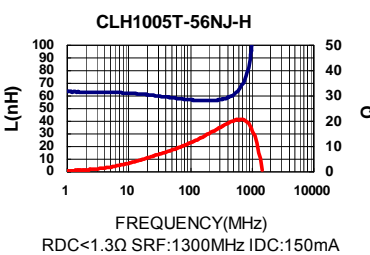
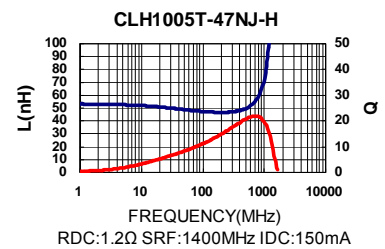
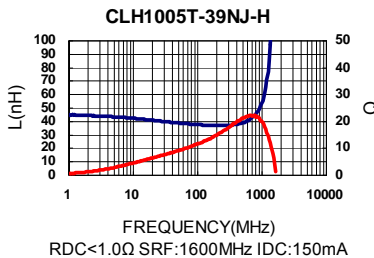
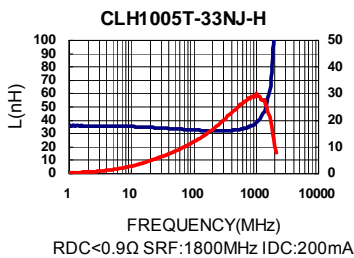
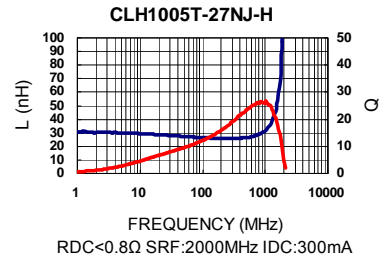
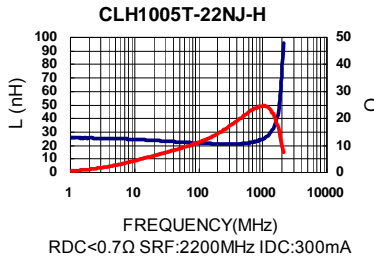
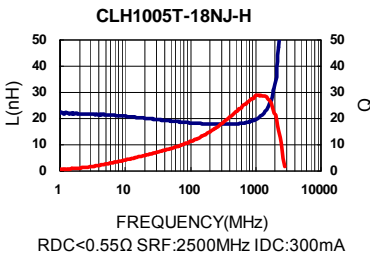
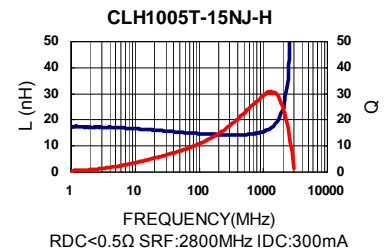
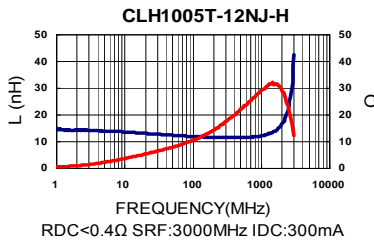
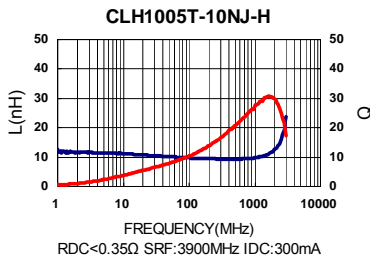
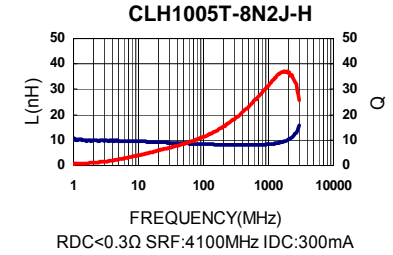
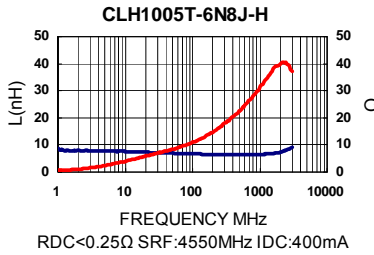
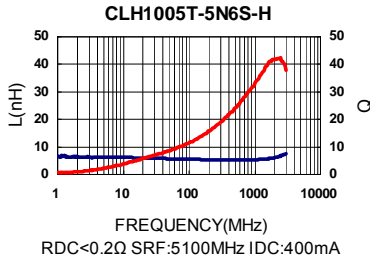
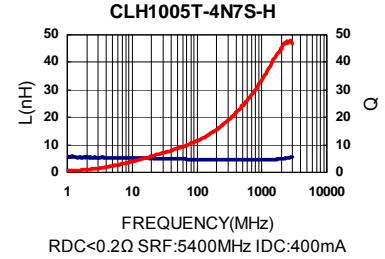
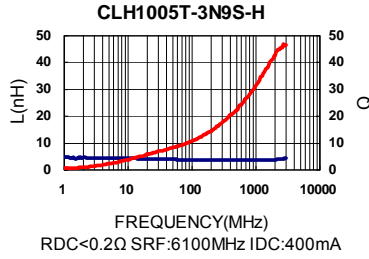
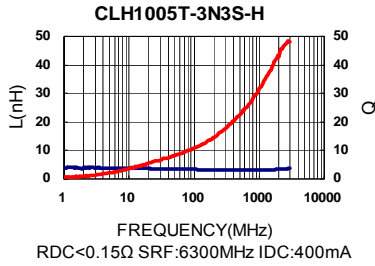
● Tolerance : S = ± 0.3nH , J = ± 5% , K = ± 10%

● Test Instruments : L/Q : Agilent E4991A      Fixture : Agilent 16197A  
 SRF : HP8753D  
 RDC : HP4338B/ CH502BC

## Test Instruments : HP4291A Material/Impedance Analyzer



## Test Instruments : HP4291A Material/Impedance Analyzer

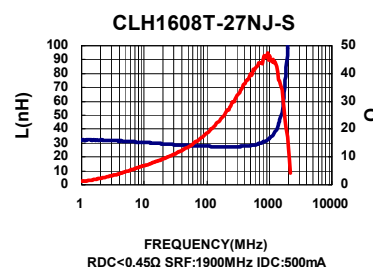
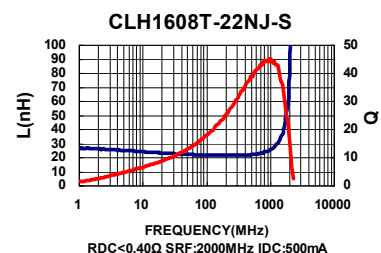
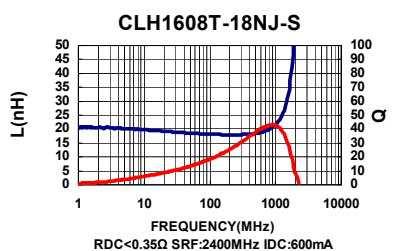
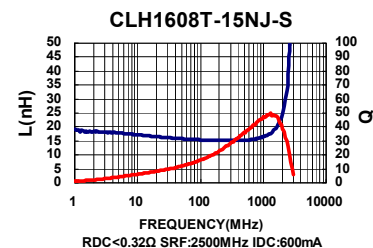
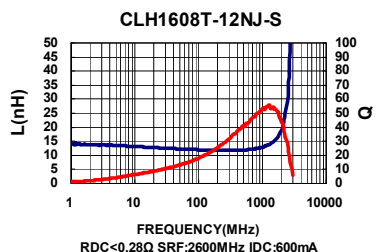
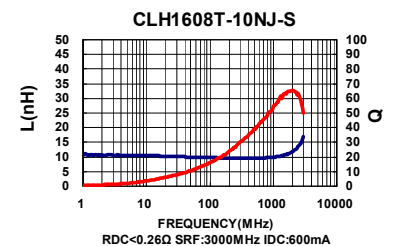
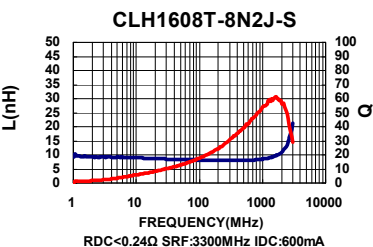
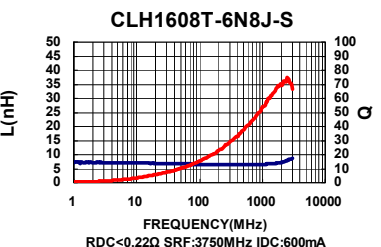
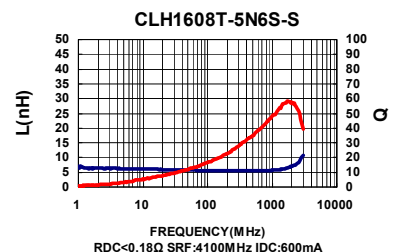
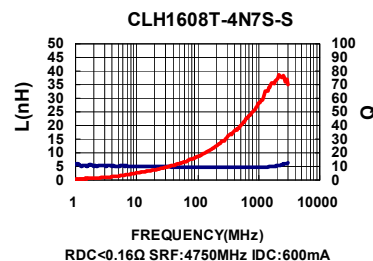
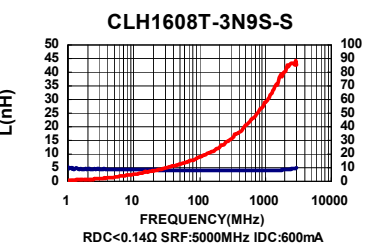
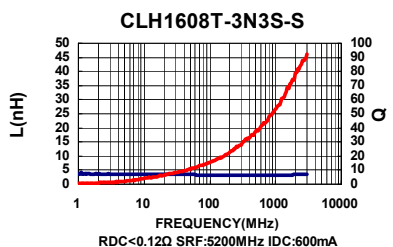
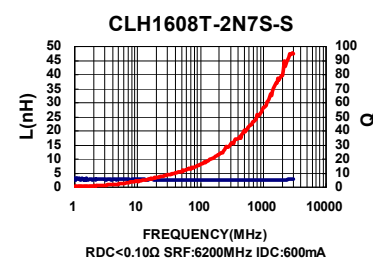
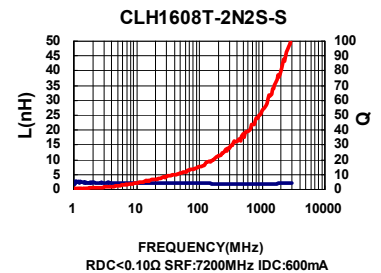
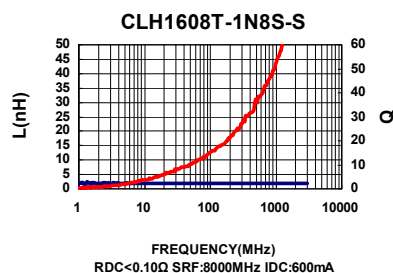
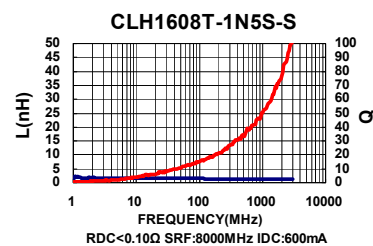
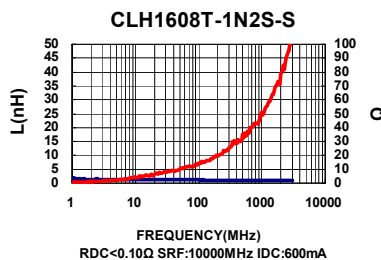
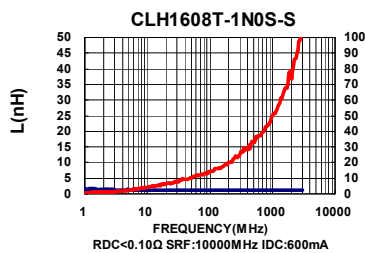


## Electrical Characteristics

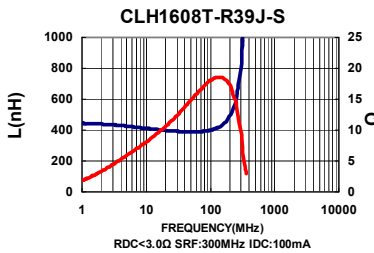
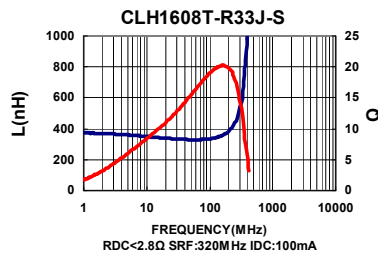
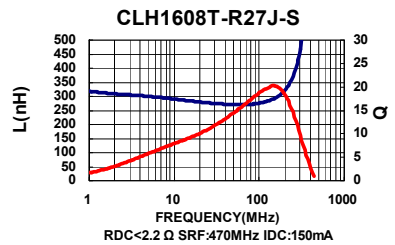
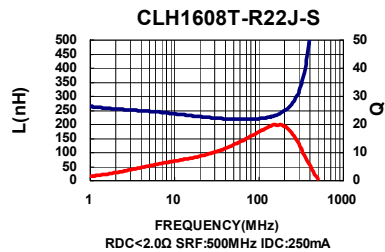
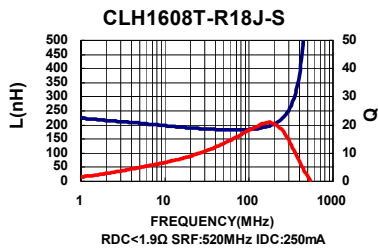
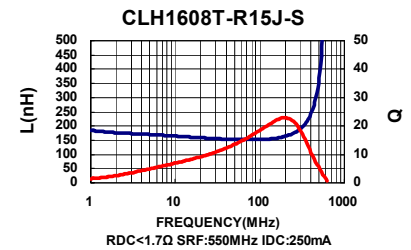
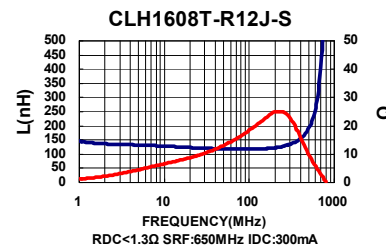
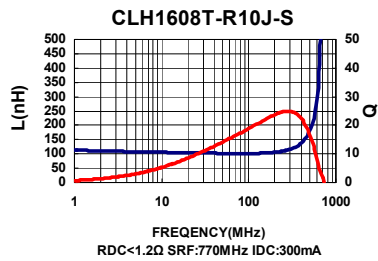
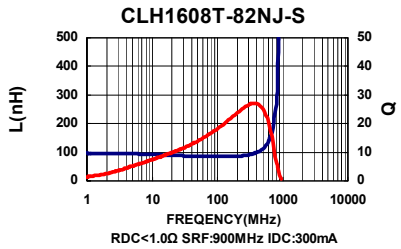
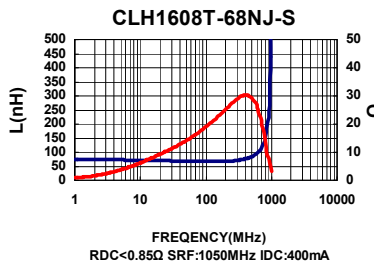
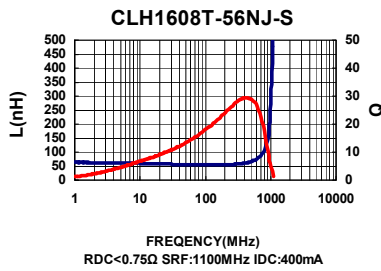
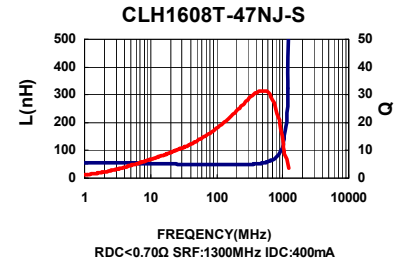
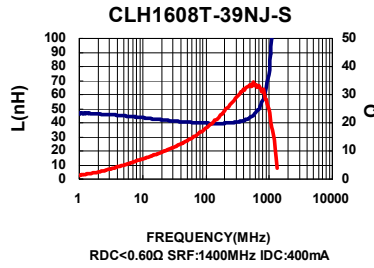
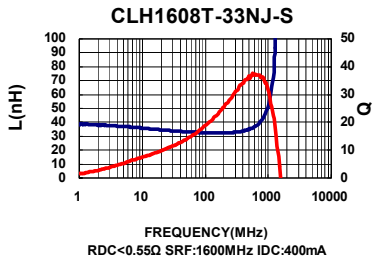
Part Number	Inductance (nH) at 100MHz	Tolerance	Q Min		SRF (MHz) Typ	DC Resistance ( $\Omega$ ) Max	IDC (mA) Max
			at 50MHz	at 100MHz			
CLH1608T-1N0S-S	1.0	S		8	10000	0.10	600
CLH1608T-1N2S-S	1.2	S		8	10000	0.10	600
CLH1608T-1N5S-S	1.5	S		8	8000	0.10	600
CLH1608T-1N8S-S	1.8	S		8	8000	0.10	600
CLH1608T-2N2S-S	2.2	S		8	7200	0.10	600
CLH1608T-2N7S-S	2.7	S		10	6200	0.10	600
CLH1608T-3N3□-S	3.3	S/ K		10	5200	0.12	600
CLH1608T-3N9□-S	3.9	S/ K		10	5000	0.14	600
CLH1608T-4N7□-S	4.7	S/ K		10	4750	0.16	600
CLH1608T-5N6□-S	5.6	S/ K		10	4100	0.18	600
CLH1608T-6N8□-S	6.8	J/ K		10	3750	0.22	600
CLH1608T-8N2□-S	8.2	J/ K		10	3300	0.24	600
CLH1608T-10N□-S	10	J/ K		12	3000	0.26	600
CLH1608T-12N□-S	12	J/ K		12	2600	0.28	600
CLH1608T-15N□-S	15	J/ K		12	2500	0.32	600
CLH1608T-18N□-S	18	J/ K		12	2400	0.35	600
CLH1608T-22N□-S	22	J/ K		12	2000	0.40	500
CLH1608T-27N□-S	27	J/ K		12	1900	0.45	500
CLH1608T-33N□-S	33	J/ K		12	1600	0.55	400
CLH1608T-39N□-S	39	J/ K		12	1400	0.60	400
CLH1608T-47N□-S	47	J/ K		12	1300	0.70	400
CLH1608T-56N□-S	56	J/ K		12	1100	0.75	400
CLH1608T-62N□-S	62	J/ K		12	1050	0.85	400
CLH1608T-68N□-S	68	J/ K		12	1050	0.85	400
CLH1608T-82N□-S	82	J/ K		12	900	1.00	300
CLH1608T-R10□-S	100	J/ K		12	770	1.20	300
CLH1608T-R12□-S	*120	J/ K	8		650	1.30	300
CLH1608T-R15□-S	*150	J/ K	8		550	1.70	250
CLH1608T-R18□-S	*180	J/ K	8		520	1.90	250
CLH1608T-R22□-S	*220	J/ K	8		500	2.00	250
CLH1608T-R27□-S	*270	J/ K	8		470	2.20	150
CLH1608T-R33□-S	*330	J/ K	8		320	2.80	100
CLH1608T-R39□-S	*390	J/ K	8		300	3.00	100

- \* at 50MHz
- Tolerance : S =  $\pm 0.3$  nH ; J =  $\pm 5\%$  ; K =  $\pm 10\%$
- Test Instruments : L/Q : L/Q : Agilent E4991A    Fixture : Agilent 16197A  
SRF : HP8753D    RDC : HP4338B/ CH502BC

## Test Instruments : HP4291A Material/Impedance Analyzer



## Test Instruments : HP4291A Material/Impedance Analyzer



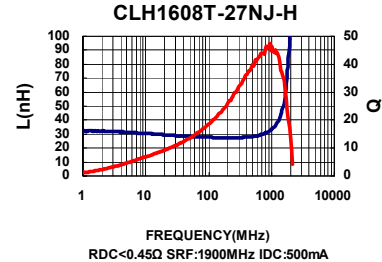
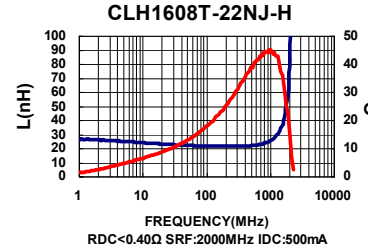
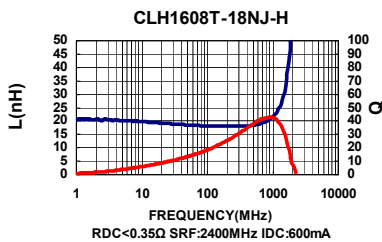
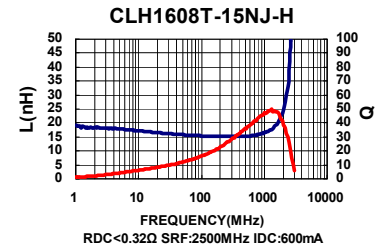
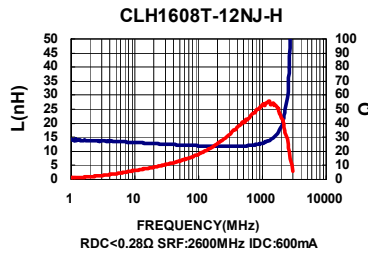
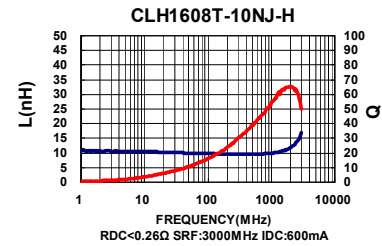
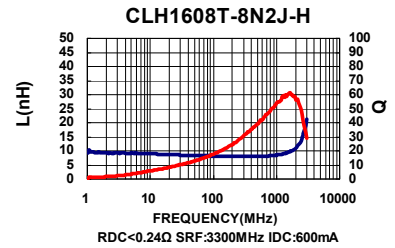
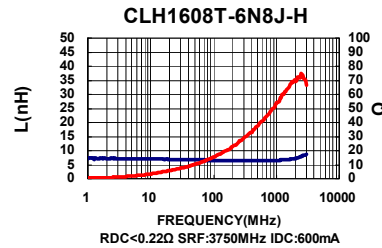
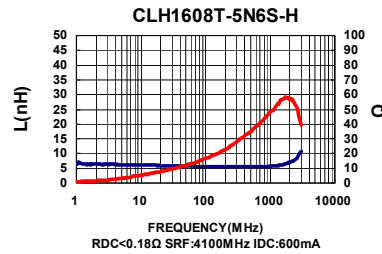
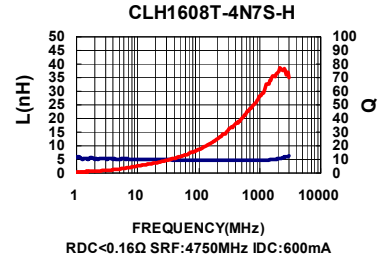
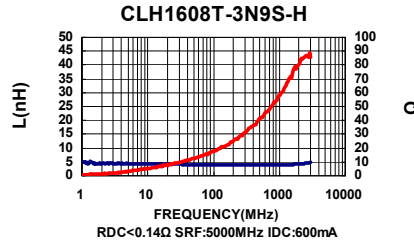
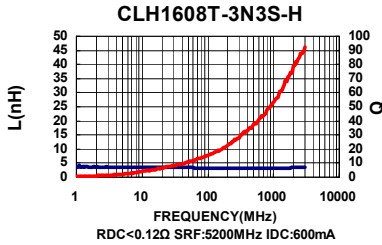
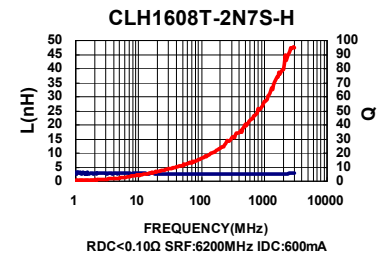
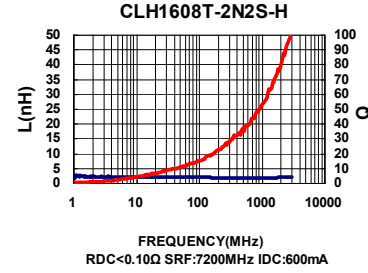
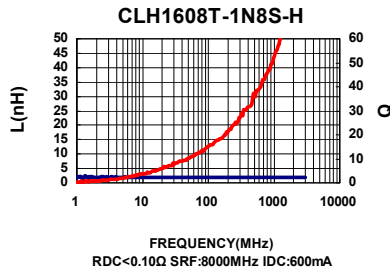
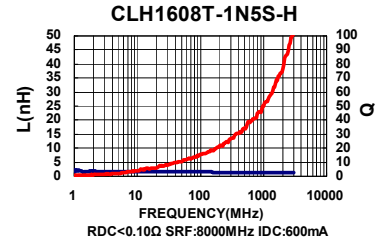
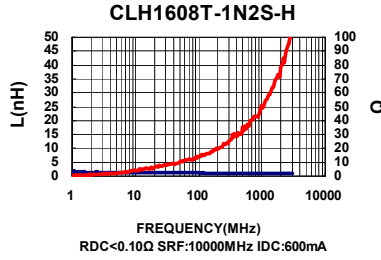
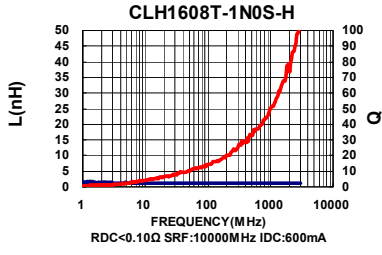
## Electrical Characteristics

Part Number	Inductance (nH) at 100MHz	Tolerance	Q Min		SRF (MHz) Typ	DC Resistance (Ω) Max	IDC (mA) Max
			at 50MHz	at 100MHz			
CLH1608T-1N0S-H	1.0	S		8	10000	0.10	600
CLH1608T-1N2S-H	1.2	S		8	10000	0.10	600
CLH1608T-1N5S-H	1.5	S		8	8000	0.10	600
CLH1608T-1N8S-H	1.8	S		8	8000	0.10	600
CLH1608T-2N2S-H	2.2	S		8	7200	0.10	600
CLH1608T-2N7S-H	2.7	S		10	6200	0.10	600
CLH1608T-3N3□-H	3.3	S/ K		10	5200	0.12	600
CLH1608T-3N9□-H	3.9	S/ K		10	5000	0.14	600
CLH1608T-4N7□-H	4.7	S/ K		10	4750	0.16	600
CLH1608T-5N6□-H	5.6	S/ K		10	4100	0.18	600
CLH1608T-6N8□-H	6.8	J/ K		10	3750	0.22	600
CLH1608T-8N2□-H	8.2	J/ K		10	3300	0.24	600
CLH1608T-10N□-H	10	J/ K		12	3000	0.26	600
CLH1608T-12N□-H	12	J/ K		12	2600	0.28	600
CLH1608T-15N□-H	15	J/ K		12	2500	0.32	600
CLH1608T-18N□-H	18	J/ K		12	2400	0.35	600
CLH1608T-22N□-H	22	J/ K		12	2000	0.40	500
CLH1608T-27N□-H	27	J/ K		12	1900	0.45	500
CLH1608T-33N□-H	33	J/ K		12	1600	0.55	400
CLH1608T-39N□-H	39	J/ K		12	1400	0.60	400
CLH1608T-47N□-H	47	J/ K		12	1300	0.70	400
CLH1608T-56N□-H	56	J/ K		12	1100	0.75	400
CLH1608T-62N□-H	62	J/ K		12	1050	0.85	400
CLH1608T-68N□-H	68	J/ K		12	1050	0.85	400
CLH1608T-82N□-H	82	J/ K		12	900	1.00	300
CLH1608T-R10□-H	100	J/ K		12	770	1.20	300
CLH1608T-R12□-H	*120	J/ K	8		650	1.30	300
CLH1608T-R15□-H	*150	J/ K	8		550	1.70	250
CLH1608T-R18□-H	*180	J/ K	8		520	1.90	250
CLH1608T-R22□-H	*220	J/ K	8		500	2.00	250
CLH1608T-R27□-H	*270	J/ K	8		470	2.20	150
CLH1608T-R33□-H	*330	J/ K	8		320	2.80	100
CLH1608T-R39□-H	*390	J/ K	8		300	3.00	100

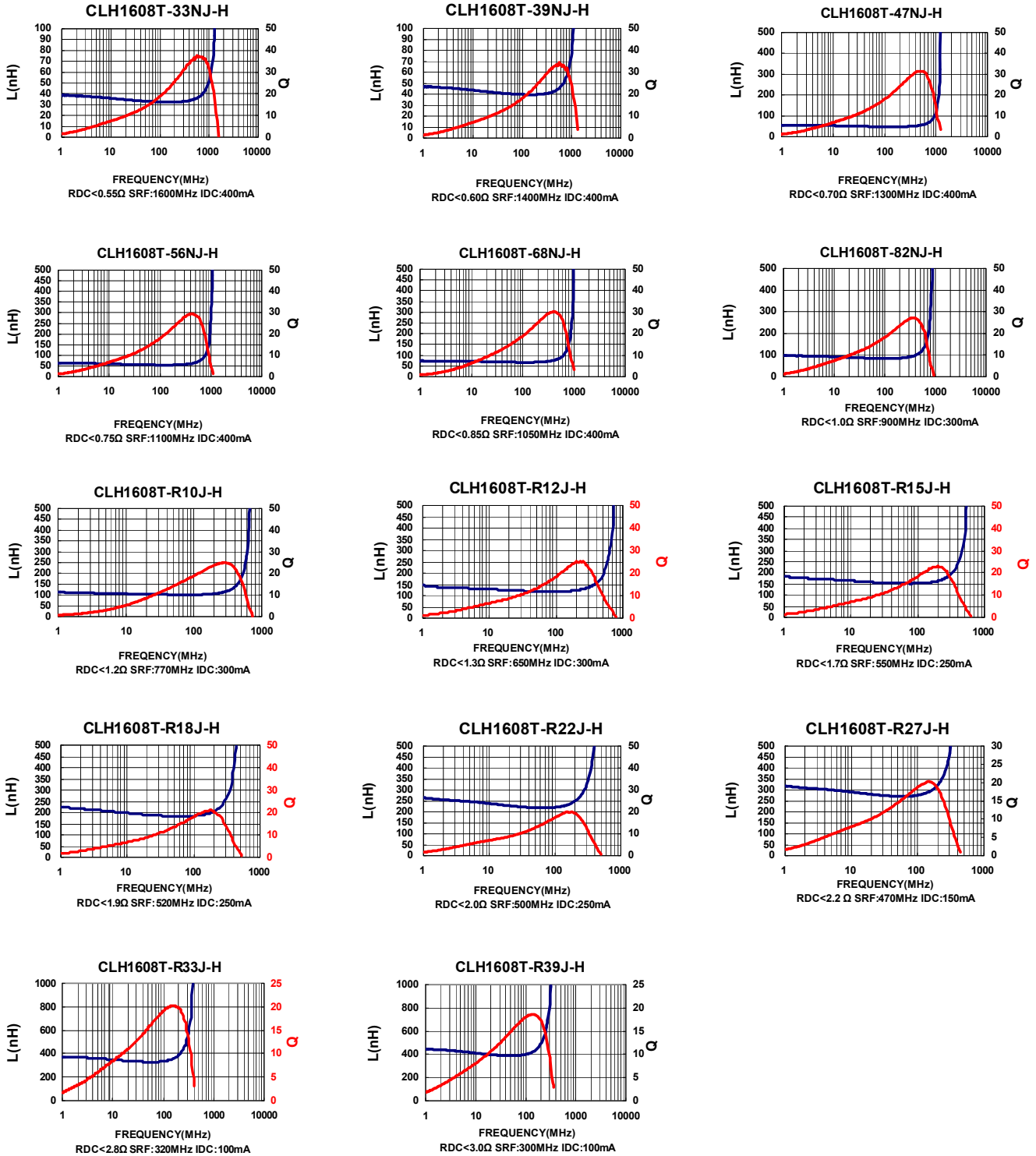
- \* at 50MHz
- Tolerance : S = ± 0.3 nH ; J = ± 5% ; K = ± 10%
- Test Instruments : L/Q : L/Q : Agilent E4991A    Fixture : Agilent 16197A  
                           SRF : HP8753D  
                           RDC : HP4338B/ CH502BC



## Test Instruments : HP4291A Material/Impedance Analyzer



## Test Instruments : HP4291A Material/Impedance Analyzer



## Electrical Characteristics

Part Number	Inductance (nH) at 100MHz	Tolerance	Q Min		SRF (MHz) Typ	DC Resistance (Ω) Max	IDC (mA) Max
			at 50MHz	at 100MHz			
CLH1608T-1N0S-W	1.0	S		8	10000	0.10	600
CLH1608T-1N2S-W	1.2	S		8	10000	0.10	600
CLH1608T-1N5S-W	1.5	S		8	8000	0.10	600
CLH1608T-1N8S-W	1.8	S		8	8000	0.10	600
CLH1608T-2N2S-W	2.2	S		8	7200	0.10	600
CLH1608T-2N7S-W	2.7	S		10	6200	0.10	600
CLH1608T-3N3□-W	3.3	S/ K		10	5200	0.12	600
CLH1608T-3N9□-W	3.9	S/ K		10	5000	0.14	600
CLH1608T-4N7□-W	4.7	S/ K		10	4750	0.16	600
CLH1608T-5N6□-W	5.6	S/ K		10	4100	0.18	600
CLH1608T-6N8□-W	6.8	J/ K		10	3750	0.22	600
CLH1608T-8N2□-W	8.2	J/ K		10	3300	0.24	600
CLH1608T-10N□-W	10	J/ K		12	3000	0.26	600
CLH1608T-12N□-W	12	J/ K		12	2600	0.28	600
CLH1608T-15N□-W	15	J/ K		12	2500	0.32	600
CLH1608T-18N□-W	18	J/ K		12	2400	0.35	600
CLH1608T-22N□-W	22	J/ K		12	2000	0.40	500
CLH1608T-27N□-W	27	J/ K		12	1900	0.45	500
CLH1608T-33N□-W	33	J/ K		12	1600	0.55	400
CLH1608T-39N□-W	39	J/ K		12	1400	0.60	400
CLH1608T-47N□-W	47	J/ K		12	1300	0.70	400
CLH1608T-56N□-W	56	J/ K		12	1100	0.75	400
CLH1608T-62N□-W	62	J/ K		12	1050	0.85	400
CLH1608T-68N□-W	68	J/ K		12	1050	0.85	400
CLH1608T-82N□-W	82	J/ K		12	900	1.00	300
CLH1608T-R10□-W	100	J/ K		12	770	1.20	300
CLH1608T-R12□-W	*120	J/ K	8		650	1.30	300
CLH1608T-R15□-W	*150	J/ K	8		550	1.70	250
CLH1608T-R18□-W	*180	J/ K	8		520	1.90	250
CLH1608T-R22□-W	*220	J/ K	8		500	2.00	250
CLH1608T-R27□-W	*270	J/ K	8		470	2.20	150
CLH1608T-R33□-W	*330	J/ K	8		320	2.80	100
CLH1608T-R39□-W	*390	J/ K	8		300	3.00	100

- \* at 50MHz
- Tolerance : S = ± 0.3 nH ; J = ± 5% ; K = ± 10%
- Test Instruments : L/Q : L/Q : Agilent E4991A    Fixture : Agilent 16197A  
SRF : HP8753D  
RDC : HP4338B/ CH502BC





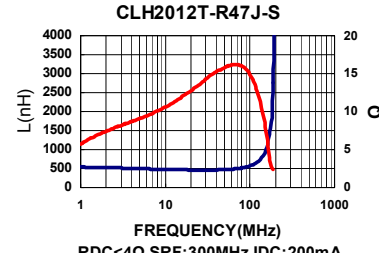
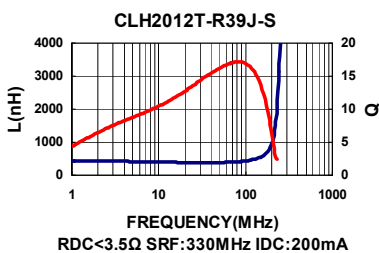
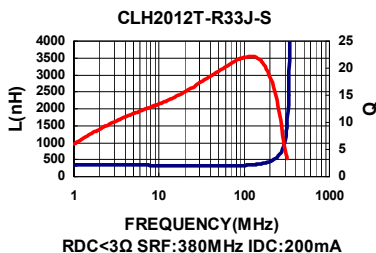
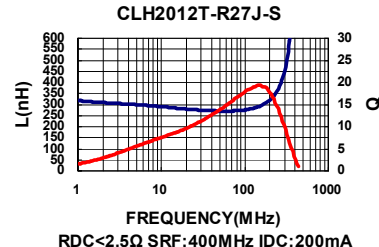
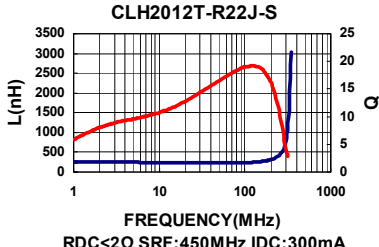
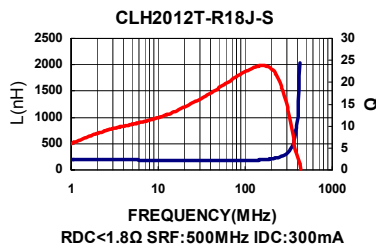
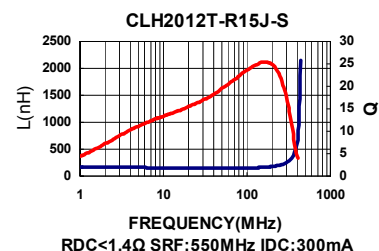
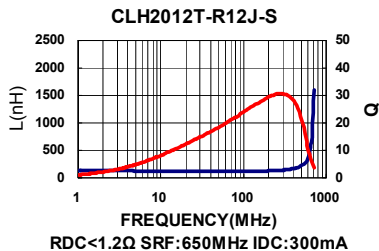
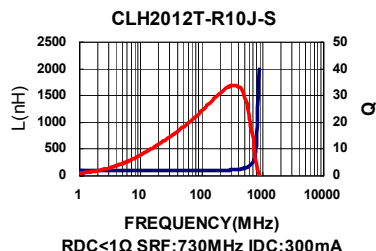
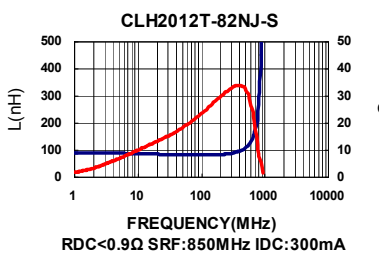
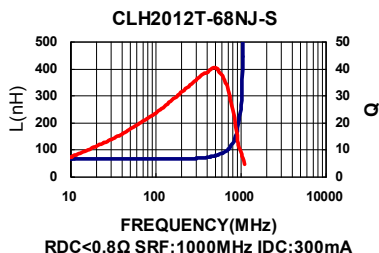
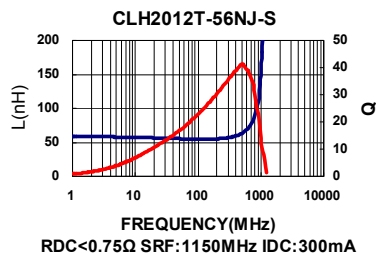
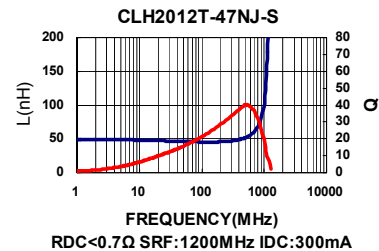
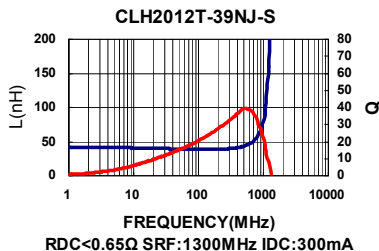
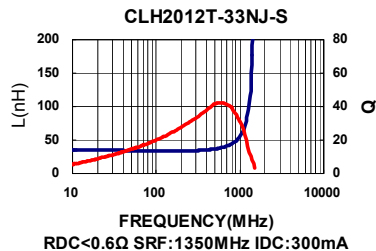
## Electrical Characteristics

Part Number	Inductance (nH) at 100MHz	Tolerance	Q Min at		SRF (MHz) Typ	DC Resistance ( $\Omega$ ) Max	IDC (mA) Max
			50MHz	100MHz			
CLH2012T-1N0□-S	1.0	S		10	> 6000	0.10	300
CLH2012T-1N2□-S	1.2	S		10	> 6000	0.10	300
CLH2012T-1N5□-S	1.5	S		10	> 6000	0.10	300
CLH2012T-1N8□-S	1.8	S		10	> 6000	0.10	300
CLH2012T-2N2□-S	2.2	S		10	> 6000	0.10	300
CLH2012T-2N7□-S	2.7	S		12	> 6000	0.10	300
CLH2012T-3N3□-S	3.3	S / K		12	> 6000	0.13	300
CLH2012T-3N9□-S	3.9	S / K		12	5400	0.15	300
CLH2012T-4N7□-S	4.7	S / K		12	4500	0.20	300
CLH2012T-5N6□-S	5.6	S / K		12	4000	0.23	300
CLH2012T-6N8□-S	6.8	J / K		15	3650	0.25	300
CLH2012T-8N2□-S	8.2	J / K		15	3000	0.28	300
CLH2012T-10N□-S	10	J / K		15	2500	0.30	300
CLH2012T-12N□-S	12	J / K		15	2450	0.35	300
CLH2012T-15N□-S	15	J / K		15	2000	0.40	300
CLH2012T-18N□-S	18	J / K		15	1750	0.45	300
CLH2012T-22N□-S	22	J / K		15	1700	0.50	300
CLH2012T-27N□-S	27	J / K		15	1550	0.55	300
CLH2012T-33N□-S	33	J / K		15	1350	0.60	300
CLH2012T-39N□-S	39	J / K		18	1300	0.65	300
CLH2012T-47N□-S	47	J / K		18	1200	0.70	300
CLH2012T-56N□-S	56	J / K		18	1150	0.75	300
CLH2012T-68N□-S	68	J / K		18	1000	0.80	300
CLH2012T-82N□-S	82	J / K		18	850	0.90	300
CLH2012T-R10□-S	100	J / K		18	730	1.00	300
CLH2012T-R12□-S	* 120	J / K	13		650	1.20	300
CLH2012T-R15□-S	* 150	J / K	13		550	1.40	300
CLH2012T-R18□-S	* 180	J / K	13		500	1.80	300
CLH2012T-R22□-S	* 220	J / K	12		450	2.00	300
CLH2012T-R27□-S	* 270	J / K	12		400	2.50	200
CLH2012T-R33□-S	* 330	J / K	12		380	3.00	200
CLH2012T-R39□-S	* 390	J / K	10		330	3.50	200
CLH2012T-R47□-S	* 470	J / K	10		300	4.00	200

- \* at 50MHz
- Tolerance : S =  $\pm 0.3\text{nH}$  , J =  $\pm 5\%$  , K =  $\pm 10\%$
- Test Instruments : Agilent E4991A : Agilent 16197A  
SRF : HP8753D  
RDC : HP4338B/ CH502BC



## Test Instruments : HP4291A Material/Impedance Analyzer

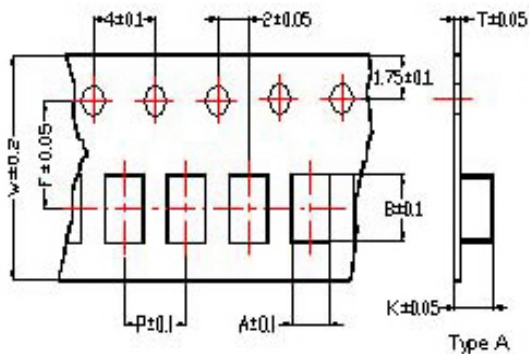




Packaging Specifications

Tape Dimensions

Figure A



Tape Material

Figure A

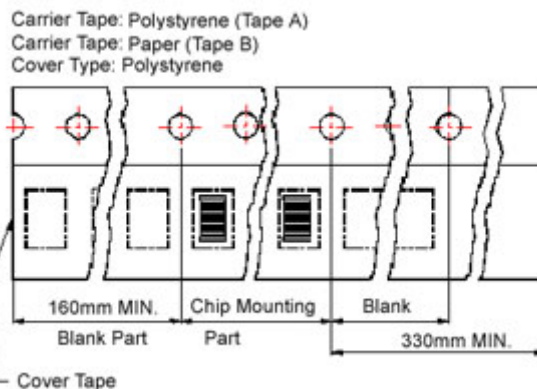


Figure B

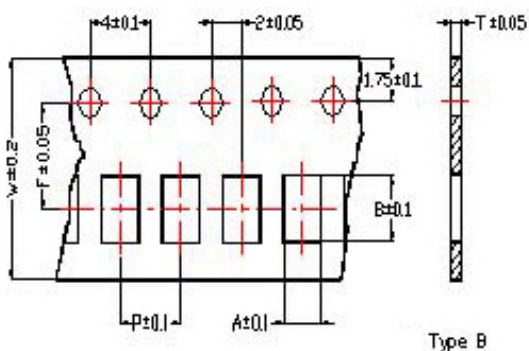
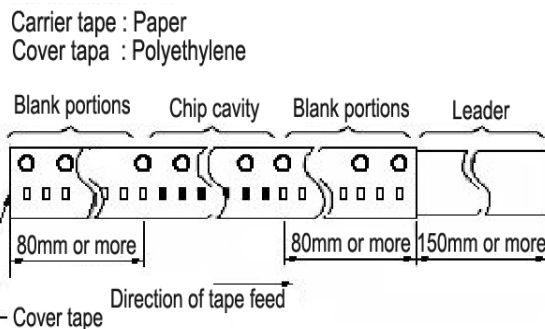
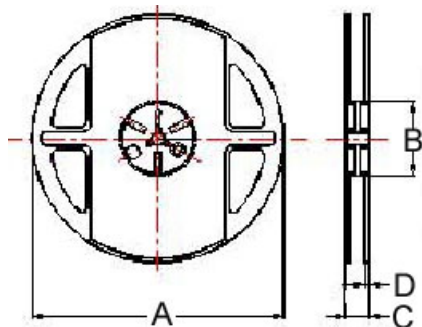


Figure B



Reel Dimensions



Dimensions in mm

TYPE	Tape Dimensions								Tape Material	Reel Dimensions				Quantity PCS / Reel	
	A	B	T	W	P	F	K	Tape		A	B	C	D		
CLH0603	0.37	0.67	0.50	8	2	3.5			B	B	180	60	13	1.5	15000
CLH1005	0.65	1.12	0.60	8	2	3.5			B	A	178	60	12	1.5	10000
CLH1608	1.00	1.80	0.95	8	4	3.5			B	A	178	60	12	1.5	4000
CLH201209	1.58	2.42	0.95	8	4	3.5	1.04		A,B	A	178	60	12	1.5	4000
CLH201212	1.35	2.25	0.22	8	4	3.5	1.35		A	A	178	60	12	1.5	3000