

## Cautions and Warnings

Please be noted that this spec is only for reference if you have projects designed with the product number listed in. If you are looking for new project design-in, please find BWLD Series specification/datasheet on Chilisin website. Or you may find our sales contact for more information on old part number at your convenience. Appreciated your attention and understanding.

**Note:** Please be sure to request approval specifications that provide further details of the products. Kindly note that the content of these specifications are subject to change or may be discontinued without prior notice. This product may not be designed/used in medical or high risk applications without Chilisin approval. Please contact our sales department before ordering.

## LD Series



LD series is the newest open type ferrite wire wound chip inductors. The wire wound ferrite construction supports lower DCR than other open type inductors.

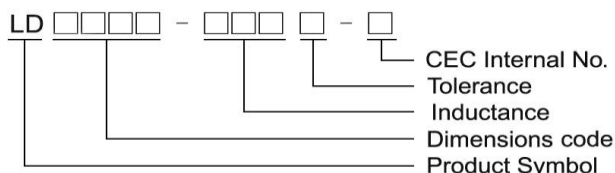
### Features

- RoHS compliant
- SMD type wire-wound chip inductor with low DC resistance
- Wide inductance range (0.9uH~100uH)

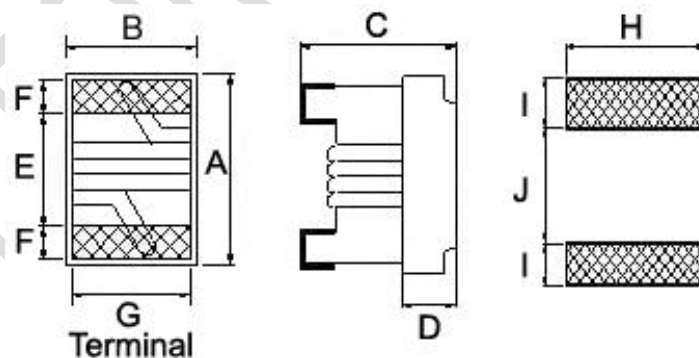
### Applications

- DSC, DVC, MD, PDA
- Portable digital devices

### Product Identification



### Shape and Dimensions / Recommended Pattern



Dimensions in mm

TYPE	A Max	B Max	C Max	D	E	F	G	H	I	J
LD0805	2.4	1.72	1.52	0.70	1.00	0.50	1.27	1.78	1.02	0.76
LD1008	2.99	2.50	2.20	0.70	1.52	0.51	2.03	2.54	1.02	1.27

# SMD Wire Wound Chip Inductors – LD Series

## Electrical Characteristics

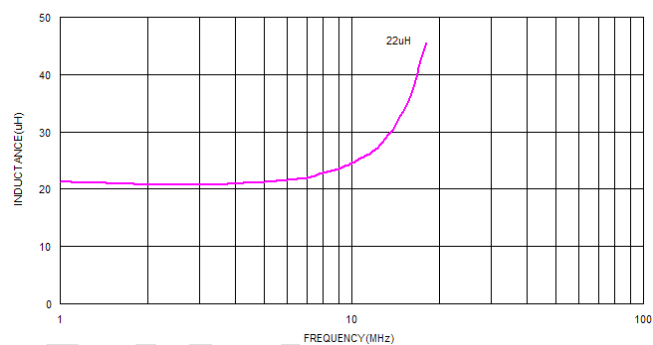
Part Number	Inductance (uH)	Tolerance (±%)	Test Frequency (MHz)	Q Typ.	SRF (MHz) Min	RDC (Ω±30%)	IDC (mA)	Color
LD0805-1R0□-N	1.0	10 / 20	7.96	18	100	0.10	800	Black
LD0805-1R5□-N	1.5	10 / 20	7.96	18	90	0.18	650	Brown
LD0805-2R2□-N	2.2	10 / 20	7.96	18	70	0.24	550	Red
LD0805-3R3□-N	3.3	10 / 20	7.96	18	55	0.30	450	Orange
LD0805-4R7□-N	4.7	10 / 20	7.96	18	50	0.47	360	Yellow
LD0805-6R8□-N	6.8	10 / 20	7.96	24	60	0.75	290	Green
LD0805-100□-N	10	10 / 20	2.52	18	25	0.90	290	Blue
LD0805-150□-N	15	10 / 20	2.52	18	25	1.60	230	Violet
LD0805-220□-N	22	10 / 20	2.52	18	17	1.95	190	Gray
LD0805-330□-N	33	10 / 20	2.52	17	15	2.60	120	White
LD0805-470□-N	47	10 / 20	2.52	17	11	3.90	95	Black
LD0805-680□-N	68	10 / 20	2.52	17	11	5.50	95	Brown
LD0805-101□-N	100	10 / 20	1.00	12	9	9.00	70	Red

**Note:** When ordering, please specify tolerance code. Tolerance: K=±10% , M=±20%

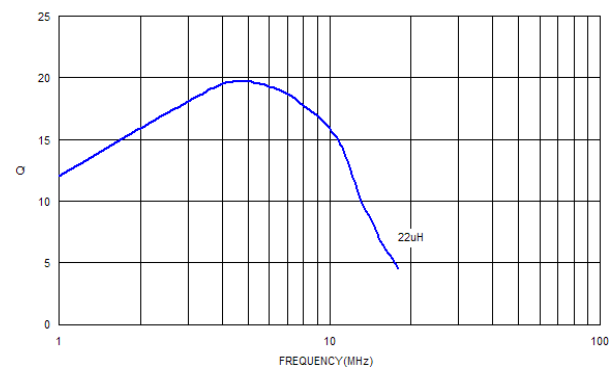
- Operating temperature range - 25°C ~ 105°C(Including self - temperature rise)
- IDC for Inductance drop 10% from its value with current
- Measure Equipment :  
 L & Q : Agilent E4991A+Agilent HP16197A(over 1MHz)/Agilent HP4285A(under 1MHz)  
 SRF : HP8753D/Agilent E4991A  
 RDC : Chroma 16502  
 IDC : HP4284A+HP42841A/HP4285A+HP42841A

**Test Instruments :** Agilent E4991A Material/Impedance Analyzer

**Typical L vs. Frequency**



**Typical Q vs. Frequency**



# SMD Wire Wound Chip Inductors – LD Series

## Electrical Characteristics

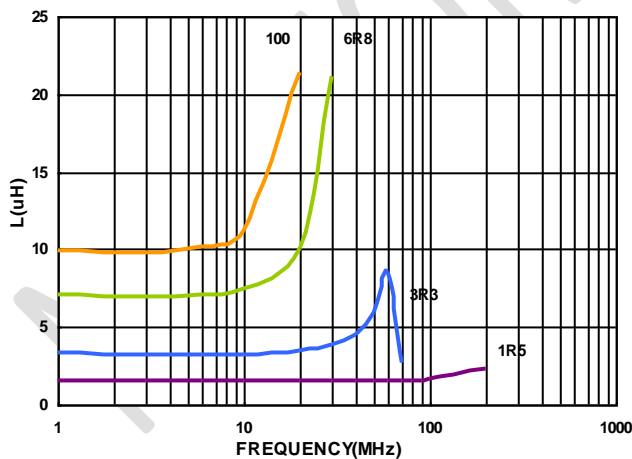
Part Number	Inductance (uH)	Tolerance (±%)	Test Frequency (MHz)	Q Typ.	SRF (MHz) Min	RDC (Ω) Max	IDC (mA) Typ.	Irms (mA) Max	Color		
									1 <sup>ST</sup>	2 <sup>ND</sup>	3 <sup>RD</sup>
LD1008-R90□-N	0.9	10	2.5	25	300	0.1	1400	1300	White	Black	Brown
LD1008-1R1□-N	1.1	10	2.5	24	275	0.105	1300	1200	Brown	Brown	Red
LD1008-1R3□-N	1.3	5 / 10	2.5	24	220	0.11	1200	1100	Brown	Orange	Red
LD1008-1R5□-N	1.5	5 / 10	2.5	22	210	0.125	1100	1000	Brown	Yellow	Red
LD1008-1R9□-N	1.9	5 / 10	2.5	22	165	0.14	1000	1000	Brown	White	Red
LD1008-2R2□-N	2.2	5 / 10	2.5	21	75	0.155	950	950	Red	Red	Red
LD1008-2R7□-N	2.7	5 / 10	2.5	22	57	0.19	800	900	Red	Violet	Red
LD1008-3R3□-N	3.3	5 / 10	2.5	21	54	0.21	750	800	Orange	Orange	Red
LD1008-3R9□-N	3.9	5 / 10	2.5	21	50	0.22	700	800	Orange	White	Red
LD1008-4R7□-N	4.7	5 / 10	2.5	27	48	0.435	700	650	Yellow	Violet	Red
LD1008-5R8□-N	5.8	5 / 10	2.5	21	33	0.28	550	750	Green	Gray	Red
LD1008-6R8□-N	6.8	5 / 10	2.5	20	28	0.315	500	700	Blue	Gray	Red
LD1008-8R2□-N	8.2	5 / 10	2.5	20	24	0.395	500	650	Gray	Red	Red
LD1008-100□-N	10	5 / 10	2.5	22	20	0.48	450	550	Brown	Black	Orange

**Note:** When ordering, please specify tolerance code. Tolerance: J=±5% , K=±10%

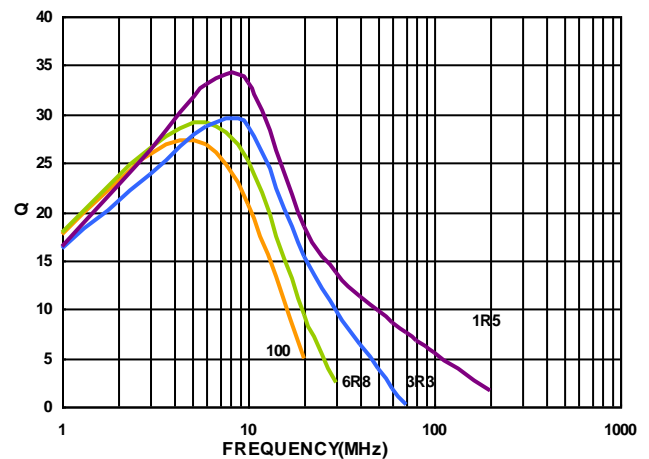
- Operating temperature range - 25°C ~ 105°C(Including self - temperature rise)
- IDC for Inductance drop 10% from its value with current
- I rms for a 40°C temperature rise from 25°C ambient with current
- Measure Equipment :  
 L : Agilent E4991A/HP4287A+16197A  
 SRF : HP8753D/Agilent E4991A  
 RDC : Chroma 16502  
 IDC : HP4284A+HP42841A/HP4285A+HP42841A

**Test Instruments :** Agilent E4991A Material/Impedance Analyzer

### Typical L vs. Frequency

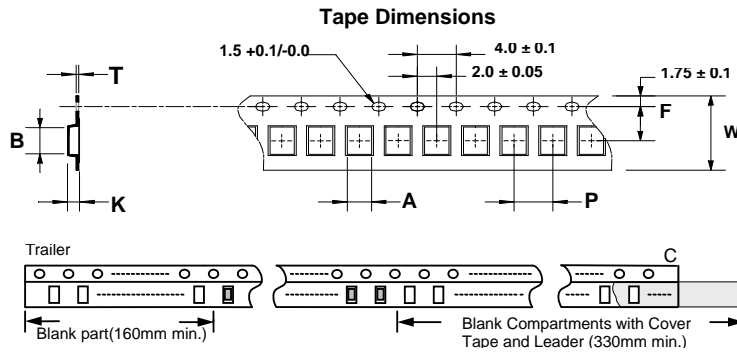


### Typical Q vs. Frequency

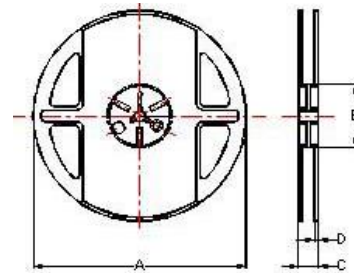


# SMD Wire Wound Chip Inductors - LD Series

## Packaging Specifications



## Reel Dimensions



### Dimensions in mm

TYPE	Tape Dimensions							Reel Dimensions				Quantity
	A	B	T	W	P	F	K	A	B	C	D	PCS / REEL
LD 0805	1.60	2.42	0.22	8	4	3.5	1.45	178	60	12	1.5	2000
LD 1008	2.40	2.93	0.26	8	4	3.5	2.25	178	60	12	1.5	2000



CHILISIN ELECTRONICS CORP.

单击下面可查看定价，库存，交付和生命周期等信息

[>>CHILISIN\(奇力新\)](#)