

## 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.

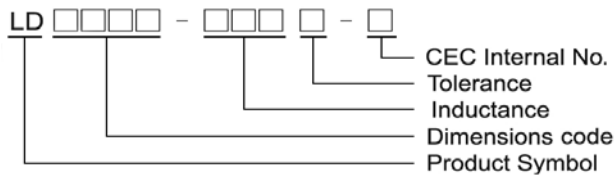
### Features

- RoHS compliant
- Miniature SMD type 0805 wire-wound chip inductor with low DC resistance
- Wide inductance range (1uH~100uH)

### Applications

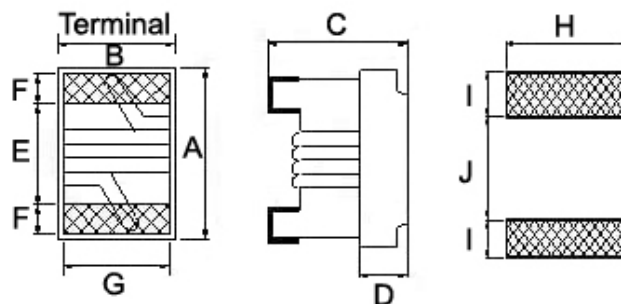
- DSC, DVC, MD, PDA
- Portable digital devices

### Product Identification



### Shape and Dimensions / Recommended Pattern

#### LD0805



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

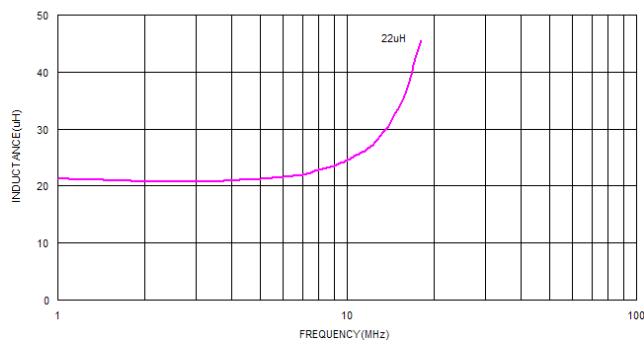
## Electrical Characteristics

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

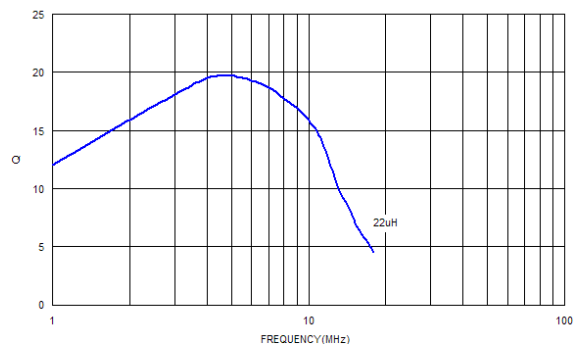
- When ordering, please specify tolerance and packaging codes.
- Tolerance : K = ±10%, M = ±20%
- L , Q : Agilent E4991A+Agilent HP16197A(over 1MHz) or Agilent HP4285A(under 1MHz)
- SRF : Agilent E4991A
- Rdc :CH502BC/ HP4338B
- Idc for Inductance drop 10% from its value without current.
- Operating temperature range from -25°C to 105°C . (Including self - temperature rise)

## Test Instruments : Agilent E4991A Material/Impedance Analyzer

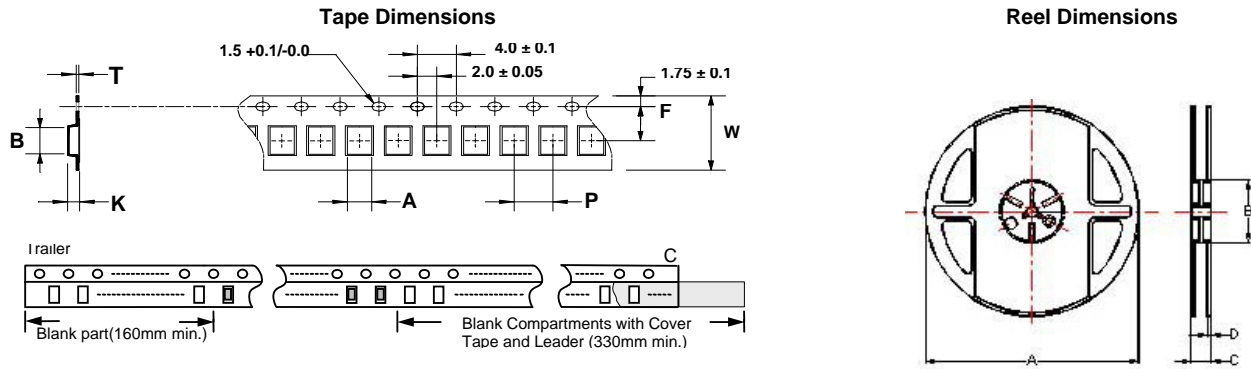
### Typical L vs. Frequency



### Typical Q vs. Frequency



## Packaging Specifications



### 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