

LT Series



LT series is the newest open type ferrite wire wound chip inductors. This wire wound ferrite construction supports thinness for low profile application.

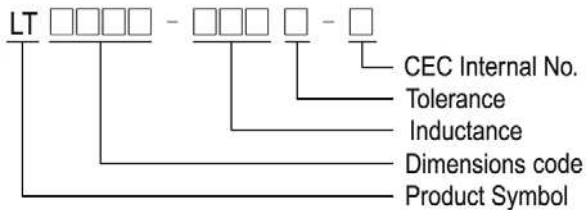
Features

- RoHS compliant
- At just 1.05mm in height, these are one of Chilisin's lowest profile surface mount inductors
- Wire wound ferrite design supports lower R_{dc}, higher current ratings and exceptional Q values
- Inductance values from 0.12 to 39uH

Applications

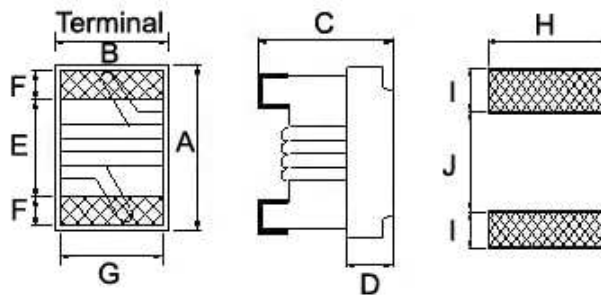
- Boost IC for tiny panels of C-STN, TFT-LCD and OLED in backlight
- Buck/Boost IC using in DC to DC converter
- LC filter in power as well as signal lines

Product Identification



Shape and Dimensions / Recommended Pattern

LT0805/1210



Dimensions in mm

TYPE	A Max	B Max	C Max	D Ref	E	F	G	H	I	J
LT0805	2.40	1.85	1.05	0.70	1.02	0.50	1.27	1.78	1.02	0.76
LT1210	3.75	3.10	1.05	0.65	1.80	0.65	2.35	2.70	1.00	2.00

SMD Wire Wound Ferrite Chip Inductors - LT Series

Electrical Characteristics

Part Number	Inductance (uH)	Test Frequency (MHz)	Tolerance (±%)	Q Min	SRF (MHz) Min	Rdc (Ω)Max	Idc (mA) Max	Color
LT0805-R12□-N	0.12	25.2	10 / 5	22	1500	0.33	1200	Black
LT0805-R15□-N	0.15	25.2	10 / 5	22	1100	0.33	1200	Brown
LT0805-R18□-N	0.18	25.2	10 / 5	22	1100	0.36	1100	Red
LT0805-R22□-N	0.22	25.2	10 / 5	22	1100	0.39	1100	Orange
LT0805-R27□-N	0.27	25.2	10 / 5	22	950	0.43	1050	Yellow
LT0805-R33□-N	0.33	25.2	10 / 5	22	650	0.46	900	Green
LT0805-R39□-N	0.39	25.2	10 / 5	22	640	0.48	850	Blue
LT0805-R47□-N	0.47	25.2	10 / 5	22	570	0.65	800	Violet
LT0805-R56□-N	0.56	25.2	10 / 5	22	540	0.67	770	Gray
LT0805-R68□-N	0.68	25.2	10 / 5	22	500	0.73	750	White
LT0805-R82□-N	0.82	25.2	10 / 5	22	480	0.85	730	Black
LT0805-1R0□-N	1.0	7.96	10 / 5	15	470	0.87	720	Brown
LT0805-1R2□-N	1.2	7.96	10 / 5	15	450	0.97	690	Red
LT0805-1R5□-N	1.5	7.96	10 / 5	15	400	1.10	670	Orange
LT0805-1R8□-N	1.8	7.96	10 / 5	15	340	1.15	650	Yellow
LT0805-2R2□-N	2.2	7.96	10 / 5	15	265	1.28	630	Green
LT0805-2R7□-N	2.7	7.96	10 / 5	15	235	1.40	620	Blue
LT0805-3R3□-N	3.3	7.96	10 / 5	15	190	1.62	580	Violet
LT0805-3R9□-N	3.9	7.96	10 / 5	15	180	1.75	570	Gray
LT0805-4R7□-N	4.7	7.96	10 / 5	13	160	1.95	550	White
LT0805-5R6□-N	5.6	7.96	10 / 5	15	120	2.14	540	Black
LT0805-6R8□-N	6.8	7.96	10 / 5	15	45	2.28	520	Brown
LT0805-8R2□-N	8.2	7.96	10 / 5	15	42	2.55	500	Red
LT0805-100□-N	10	2.52	10 / 5	10	38	2.70	450	Orange
LT0805-120□-N	12	2.52	10 / 5	10	33	4.20	400	Yellow
LT0805-150□-N	15	2.52	10 / 5	10	30	4.80	380	Green
LT0805-180□-N	18	2.52	10 / 5	10	25	5.74	300	Blue
LT0805-220□-N	22	2.52	10 / 5	10	23	7.75	260	Violet
LT0805-270□-N	27	2.52	10 / 5	10	21	10.0	230	Gray
LT0805-330□-N	33	2.52	10 / 5	10	16	13.5	200	White
LT0805-390□-N	39	2.52	10 / 5	10	15	16.0	190	Black

- When ordering, please specify tolerance and packaging codes.
- Tolerance : J = ±5% , K = ±10%
- L , Q : Agilent E4991A + Agilent HP16197A
- 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)

SMD Wire Wound Ferrite Chip Inductors - LT Series

Electrical Characteristics

Part Number	Inductance (μ H)	Test Frequency (MHz)	Tolerance (\pm %)	Q Typ.	SRF (MHz) Min	Rdc (Ω) Max	Idc (mA) Max	Color Coding		
								1 ST	2 ND	3 RD
LT1210-1R0□-N	1.0	7.96	10 / 5	20	350	0.45	1500	Brown	Black	Red
LT1210-1R2□-N	1.2	7.96	10 / 5	20	330	0.49	1300	Brown	Red	Red
LT1210-1R5□-N	1.5	7.96	10 / 5	20	310	0.68	1200	Brown	Green	Red
LT1210-1R8□-N	1.8	7.96	10 / 5	20	290	0.72	1150	Brown	Gray	Red
LT1210-2R2□-N	2.2	7.96	10 / 5	20	270	1.02	1020	Red	Red	Red
LT1210-2R7□-N	2.7	7.96	10 / 5	20	265	1.15	1000	Red	Violet	Red
LT1210-3R3□-N	3.3	7.96	10 / 5	20	195	1.20	970	Orange	Orange	Red
LT1210-3R9□-N	3.9	7.96	10 / 5	20	170	1.35	910	Orange	White	Red
LT1210-4R7□-N	4.7	7.96	10 / 5	20	155	1.48	880	Yellow	Violet	Red
LT1210-5R6□-N	5.6	7.96	10 / 5	20	125	1.65	820	Green	Blue	Red
LT1210-6R8□-N	6.8	7.96	10 / 5	20	110	1.68	750	Blue	Gray	Red
LT1210-8R2□-N	8.2	7.96	10 / 5	20	100	1.88	700	Gray	Red	Red
LT1210-100□-N	10	2.52	10 / 5	16	85	2.90	610	Brown	Black	Orange
LT1210-120□-N	12	2.52	10 / 5	16	70	3.05	540	Brown	Red	Orange
LT1210-150□-N	15	2.52	10 / 5	16	65	3.45	500	Brown	Green	Orange
LT1210-180□-N	18	2.52	10 / 5	16	55	4.79	420	Brown	Gray	Orange
LT1210-220□-N	22	2.52	10 / 5	16	50	5.20	350	Red	Red	Orange

- When ordering, please specify tolerance and packaging codes.
- Tolerance : J = \pm 5% , K = \pm 10%
- L , Q : Agilent E4991A + Agilent HP16197A
- 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)