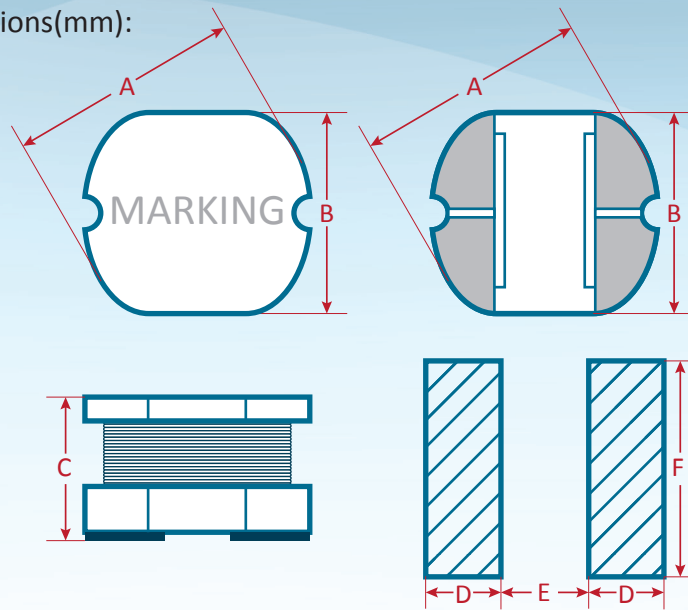




# LTR Series

## Unshielded SMT Power Inductor

Shape and Dimensions(mm):



Item	A	B	C	D	E	F
LTR0502	5.8±0.3	5.2±0.3	2.5±0.3	2.15 Typ.	1.7 Typ.	5.5 Typ.
LTR0503	5.8±0.3	5.2±0.3	3.0±0.3	2.15 Typ.	1.7 Typ.	5.5 Typ.
LTR0504	5.8±0.3	5.2±0.3	4.5±0.35	2.15 Typ.	1.7 Typ.	5.5 Typ.

### LTR0502

Part No.	Inductance (uH)	Test Freq. (0.25V)	DCR(mΩ) Max.	Rated Current(A) Max.	Tolerance (±%)
LTR0502MT1R2	1.2	7.96 MHz	50	4.2	20
LTR0502MT1R5	1.5	7.96 MHz	60	4.0	20
LTR0502MT1R8	1.8	7.96 MHz	65	3.7	20
LTR0502MT2R2	2.2	7.96 MHz	70	3.5	20
LTR0502MT2R7	2.7	7.96 MHz	80	3.2	20
LTR0502MT3R3	3.3	7.96 MHz	100	2.7	20
LTR0502MT3R9	3.9	7.96 MHz	120	2.4	20
LTR0502MT4R7	4.7	7.96 MHz	140	2.0	20
LTR0502MT5R6	5.6	7.96 MHz	150	1.8	20
LTR0502MT6R8	6.8	7.96 MHz	160	1.5	20
LTR0502MT8R2	8.2	7.96 MHz	170	1.4	20
LTR0502MT100	10	2.52 MHz	200	1.3	20
LTR0502MT120	12	2.52 MHz	230	1.1	20
LTR0502MT150	15	2.52 MHz	250	1.05	20
LTR0502MT180	18	2.52 MHz	300	1.0	20
LTR0502KT220	22	2.52 MHz	350	0.9	10
LTR0502KT270	27	2.52 MHz	400	0.85	10
LTR0502KT330	33	2.52 MHz	500	0.75	10
LTR0502KT390	39	2.52 MHz	550	0.7	10
LTR0502KT470	47	2.52 MHz	650	0.6	10
LTR0502KT560	56	2.52 MHz	750	0.55	10
LTR0502KT680	68	2.52 MHz	950	0.5	10





Part No.	Inductance (uH)	Test Freq. (0.25V)	DCR(mΩ) Max.	Rated Current(A) Max.	Tolerance (±%)
LTR0502KT820	82	2.52 MHz	1200	0.45	10
LTR0502KT101	100	1.0 KHz	1400	0.4	10
LTR0502KT121	120	1.0 KHz	1750	0.35	10
LTR0502KT151	150	1.0 KHz	2000	0.25	10
LTR0502KT181	180	1.0 KHz	2600	0.22	10
LTR0502KT221	220	1.0 KHz	3000	0.2	10
LTR0502KT271	270	1.0 KHz	3700	0.18	10
LTR0502KT331	330	1.0 KHz	4300	0.17	10
LTR0502KT391	390	1.0 KHz	6000	0.16	10
LTR0502KT471	470	1.0 KHz	6700	0.15	10

**LTR0503**



Part No.	Inductance (uH)	Test Freq. (0.25V)	DCR(mΩ) Max.	Rated Current(A) Max.	Tolerance (±%)
LTR0503MT1R0	1.0	7.96 MHz	30	4.5	20
LTR0503MT1R2	1.2	7.96 MHz	30	4.2	20
LTR0503MT1R5	1.5	7.96 MHz	30	4.1	20
LTR0503MT1R8	1.8	7.96 MHz	30	3.7	20
LTR0503MT2R2	2.2	7.96 MHz	30	3.5	20
LTR0503MT2R7	2.7	7.96 MHz	40	3.2	20
LTR0503MT3R3	3.3	7.96 MHz	50	2.8	20
LTR0503MT3R9	3.9	7.96 MHz	60	2.6	20
LTR0503KT4R7	4.7	1.0 KHz	70	2.15	10
LTR0503MT5R6	5.6	7.96 MHz	80	2.4	20
LTR0503KT6R8	6.8	1.0 KHz	90	1.98	10
LTR0503MT8R2	8.2	7.96 MHz	100	2.0	20
LTR0503KT100	10	2.52 MHz	130	1.8	10
LTR0503MT120	12	2.52 MHz	160	1.75	20
LTR0503MT150	15	2.52 MHz	190	1.7	20
LTR0503MT180	18	2.52 MHz	210	1.6	20
LTR0503KT220	22	2.52 MHz	280	1.5	10
LTR0503KT270	27	2.52 MHz	320	1.4	10
LTR0503KT330	33	2.52 MHz	380	1.1	10
LTR0503KT390	39	2.52 MHz	420	1.0	10
LTR0503KT470	47	2.52 MHz	520	0.9	10
LTR0503KT560	56	2.52 MHz	560	0.85	10
LTR0503KT680	68	2.52 MHz	680	0.8	10
LTR0503KT820	82	2.52 MHz	820	0.65	10
LTR0503KT101	100	1.0 KHz	1100	0.6	10
LTR0503KT121	120	1.0 KHz	1200	0.58	10
LTR0503KT151	150	1.0 KHz	1500	0.43	10
LTR0503KT181	180	1.0 KHz	1800	0.41	10
LTR0503KT221	220	1.0 KHz	2000	0.38	10
LTR0503KT271	270	1.0 KHz	2900	0.35	10
LTR0503KT331	330	1.0 KHz	3300	0.28	10
LTR0503KT391	390	1.0 KHz	3700	0.26	10
LTR0503KT471	470	1.0 KHz	4900	0.2	10

LTR0504  

Part No.	Inductance (uH)	Test Freq. (0.25V)	DCR(mΩ) Max.	Rated Current(A) Max.	Tolerance (±%)
LTR0504KT6R8	6.8	100 KHz	90	2.0	10
LTR0504MT100	10	2.52 MHz	100	1.44	20
LTR0504MT120	12	2.52 MHz	120	1.4	20
LTR0504KT150	15	100 KHz	140	1.6	10
LTR0504MT180	18	2.52 MHz	150	1.23	20
LTR0504MT220	22	2.52 MHz	180	1.11	20
LTR0504MT270	27	2.52 MHz	200	0.97	20
LTR0504KT330	33	100 KHz	230	1.15	10
LTR0504KT390	39	2.52 MHz	320	0.8	10
LTR0504KT470	47	2.52 MHz	370	0.72	10
LTR0504KT560	56	2.52 MHz	420	0.68	10
LTR0504KT680	68	2.52 MHz	460	0.61	10
LTR0504KT820	82	2.52 MHz	600	0.58	10
LTR0504KT101	100	100 KHz	700	0.75	10
LTR0504KT121	120	1.0 KHz	930	0.48	10
LTR0504KT151	150	1.0 KHz	1100	0.4	10
LTR0504KT181	180	1.0 KHz	1380	0.38	10
LTR0504KT221	220	1.0 KHz	1570	0.35	10

**Ordering information**

**LTR - 0502 - M - T - 1R2**

(1) (2) (3) (4) (5)

- ( 1 ) Type : Surface Mountable Type
- ( 2 ) Size : 0502 is size
- ( 3 ) Tolerance : M=20%, K=10%
- ( 4 ) Packaging style : Taping Reel
- ( 5 ) Inductance : 1R0 for 1.0uH, 100 for 10uH, 101 for 100uH...

**Characteristics**

- Rated Current : It is either the inductance is 10% lower than its initial value in DC. saturation characteristics or temperature raise becomes  $\Delta T=40^{\circ}C$  ( $T_a=20^{\circ}C$ ), whichever is lower.
- Operating temperature  $-30^{\circ}C$  to  $105^{\circ}C$

**Test equipment**

- Inductance measured at 0A<sub>dc</sub> on HP 4284A LCR meter or equivalent
- DCR measured on Chroma 16502 micro-ohmmeter or equivalent
- Electrical specifications at  $25^{\circ}C$

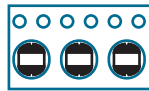
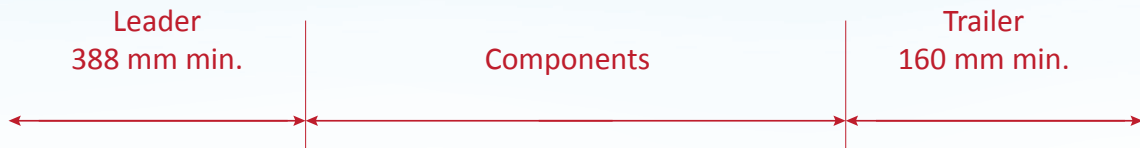
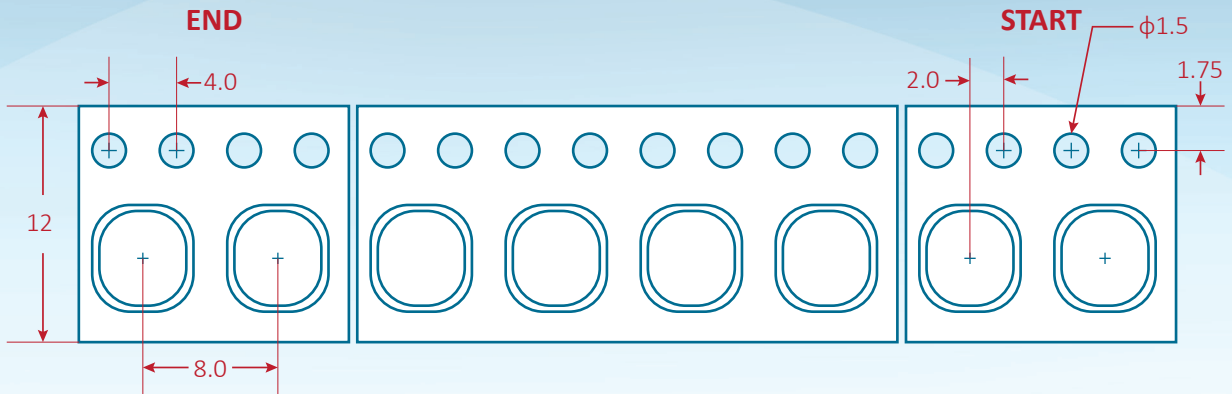
LTR0502

LTR0503

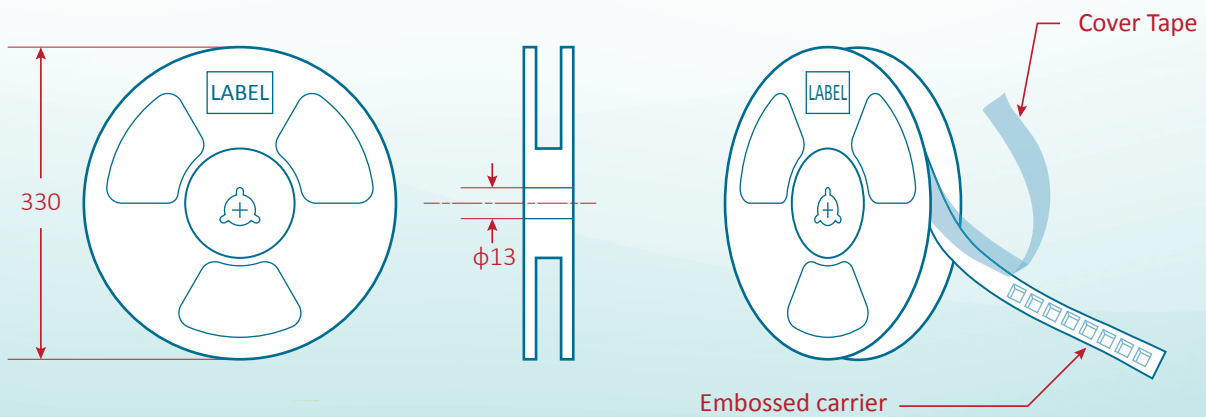
LTR0504

# Packing

Dimensions in mm



Bottom View



	Reel		Reel		Reel
LTR0502	Q'ty(Pcs) 2,000	LTR0503	Q'ty(Pcs) 2,000	LTR0504	Q'ty(Pcs) 1,500