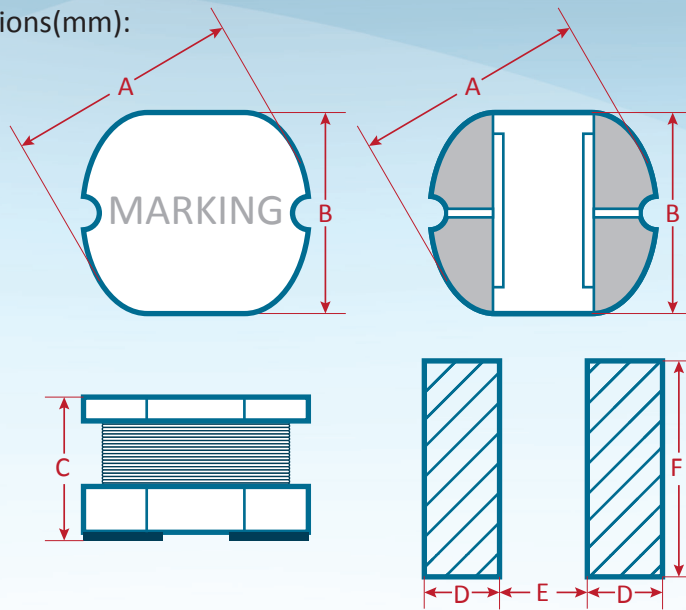




# LTR Series

## Unshielded SMT Power Inductor

Shape and Dimensions(mm):



Item	A	B	C	D	E	F
LTR1004	10±0.3	9.0±0.3	4.0±0.5	3.75 Typ.	2.5 Typ.	9.5 Typ.
LTR1005	10±0.3	9.0±0.3	5.4±0.4	3.75 Typ.	2.5 Typ.	9.5 Typ.
LTR1007	10±0.3	9.0±0.3	7.5 Max.	3.75 Typ.	2.5 Typ.	9.5 Typ.

### LTR1004

Part No.	Inductance (uH)	Test Freq. (0.25V)	DCR(mΩ) Max.	Rated Current(A) Max.	Tolerance (±%)
LTR1004MT100	10	2.52 MHz	53	2.38	20
LTR1004MT120	12	2.52 MHz	61	2.13	20
LTR1004MT150	15	2.52 MHz	70	1.87	20
LTR1004MT180	18	2.52 MHz	81	1.73	20
LTR1004MT220	22	2.52 MHz	88	1.6	20
LTR1004MT270	27	2.52 MHz	100	1.44	20
LTR1004MT330	33	2.52 MHz	120	1.26	20
LTR1004MT390	39	2.52 MHz	151	1.2	20
LTR1004MT470	47	2.52 MHz	170	1.1	20
LTR1004KT560	56	2.52 MHz	199	1.01	10
LTR1004KT680	68	2.52 MHz	223	0.91	10
LTR1004KT820	82	2.52 MHz	252	0.85	10
LTR1004KT101	100	1.0 KHz	344	0.74	10
LTR1004KT121	120	1.0 KHz	396	0.69	10
LTR1004KT151	150	1.0 KHz	544	0.61	10
LTR1004KT181	180	1.0 KHz	621	0.56	10
LTR1004KT221	220	1.0 KHz	721	0.53	10
LTR1004KT271	270	1.0 KHz	949	0.45	10
LTR1004KT331	330	1.0 KHz	1100	0.42	10
LTR1004KT391	390	1.0 KHz	1245	0.38	10
LTR1004KT471	470	1.0 KHz	1526	0.35	10
LTR1004KT561	560	1.0 KHz	1904	0.32	10

**LTR1005**


Part No.	Inductance (uH)	Test Freq. (0.25V)	DCR(mΩ) Max.	Rated Current(A) Max.	Tolerance (±%)
LTR1005MT100	10	2.52 MHz	60	2.6	20
LTR1005MT120	12	2.52 MHz	70	2.45	20
LTR1005MT150	15	2.52 MHz	80	2.27	20
LTR1005MT180	18	2.52 MHz	90	2.15	20
LTR1005MT220	22	2.52 MHz	100	1.95	20
LTR1005MT270	27	2.52 MHz	110	1.76	20
LTR1005MT330	33	2.52 MHz	120	1.5	20
LTR1005MT390	39	2.52 MHz	140	1.37	20
LTR1005KT470	47	2.52 MHz	170	1.28	10
LTR1005KT560	56	2.52 MHz	190	1.17	10
LTR1005KT680	68	2.52 MHz	220	1.11	10
LTR1005KT820	82	2.52 MHz	250	1.0	10
LTR1005KT101	100	1.0 KHz	350	0.97	10
LTR1005KT121	120	1.0 KHz	400	0.89	10
LTR1005KT151	150	1.0 KHz	470	0.78	10
LTR1005KT181	180	1.0 KHz	630	0.72	10
LTR1005KT221	220	1.0 KHz	730	0.66	10
LTR1005KT271	270	1.0 KHz	970	0.57	10
LTR1005KT331	330	1.0 KHz	1150	0.52	10
LTR1005KT391	390	1.0 KHz	1300	0.48	10
LTR1005KT471	470	1.0 KHz	1480	0.42	10
LTR1005KT561	560	1.0 KHz	1900	0.33	10
LTR1005KT681	680	1.0 KHz	2250	0.28	10
LTR1005KT821	820	1.0 KHz	2550	0.24	10

**LTR1007**


Part No.	Inductance (uH)	Test Freq. (0.25V)	DCR(mΩ) Max.	Isat(A) Max.	Irms(A) Max.	Tolerance (±%)
LTR1007MT100	10	2.52 MHz	34	8.0	5.0	20
LTR1007MT120	12	2.52 MHz	37	7.5	4.0	20
LTR1007MT150	15	2.52 MHz	46	6.5	3.5	20
LTR1007MT180	18	2.52 MHz	52	6.2	3.2	20
LTR1007MT220	22	2.52 MHz	66	5.6	3.0	20
LTR1007MT270	27	2.52 MHz	78	5.1	2.8	20
LTR1007MT330	33	2.52 MHz	89	4.7	2.7	20
LTR1007MT390	39	2.52 MHz	116	4.4	2.4	20
LTR1007MT470	47	2.52 MHz	124	3.9	2.2	20
LTR1007MT560	56	2.52 MHz	153	3.5	2.0	20
LTR1007MT680	68	2.52 MHz	185	3.3	1.6	20
LTR1007MT820	82	2.52 MHz	207	3.0	1.5	20
LTR1007KT101	100	1.0 KHz	272	2.7	1.45	10
LTR1007KT121	120	1.0 KHz	299	2.5	1.4	10
LTR1007KT151	150	1.0 KHz	381	2.3	1.3	10
LTR1007KT181	180	1.0 KHz	431	2.1	1.25	10
LTR1007KT221	220	1.0 KHz	549	1.8	1.1	10
LTR1007KT271	270	1.0 KHz	621	1.7	1.05	10
LTR1007KT331	330	1.0 KHz	815	1.5	0.9	10
LTR1007KT391	390	1.0 KHz	906	1.4	0.85	10

Part No.	Inductance (uH)	Test Freq. (0.25V)	DCR(mΩ) Max.	Isat(A) Max.	Irms(A) Max.	Tolerance (±%)
LTR1007KT561	560	1.0 KHz	1295	1.1	0.7	10
LTR1007KT681	680	1.0 KHz	1662	1.0	0.61	10
LTR1007KT821	820	1.0 KHz	1924	0.9	0.57	10

**Ordering information**

**LTR - 1004 - M - T - 100**

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

- ( 1 ) Type : Surface Mountable Type
- ( 2 ) Size : 1004 is size
- ( 3 ) Tolerance : M=20%, K=10%
- ( 4 ) Packaging style : Taping Reel
- ( 5 ) Inductance : 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  $105^{\circ}C$

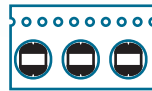
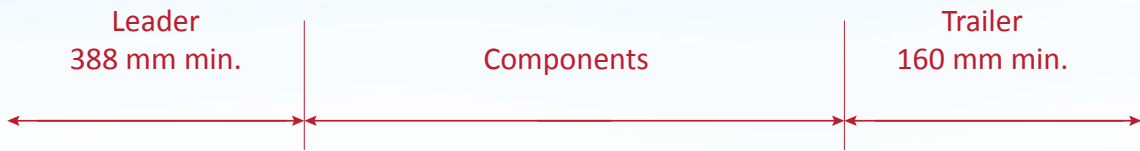
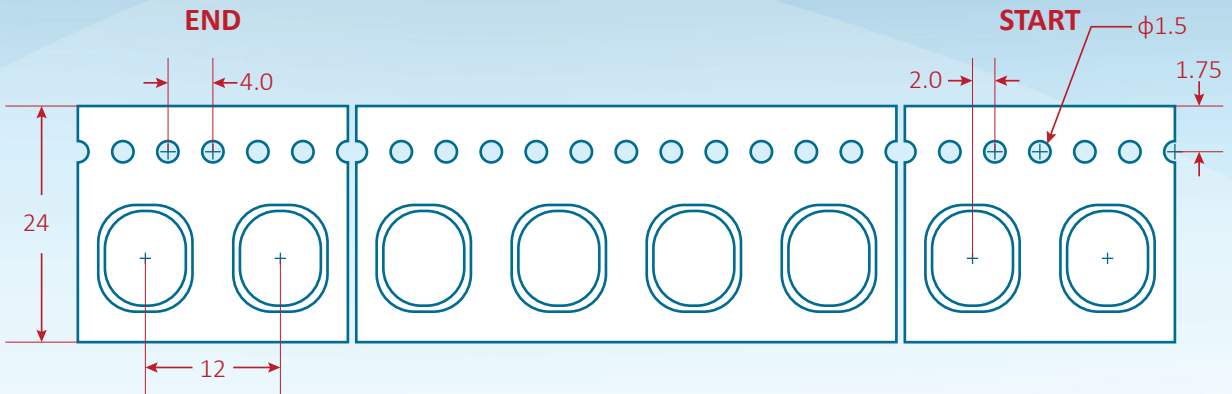
**Test equipment**

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

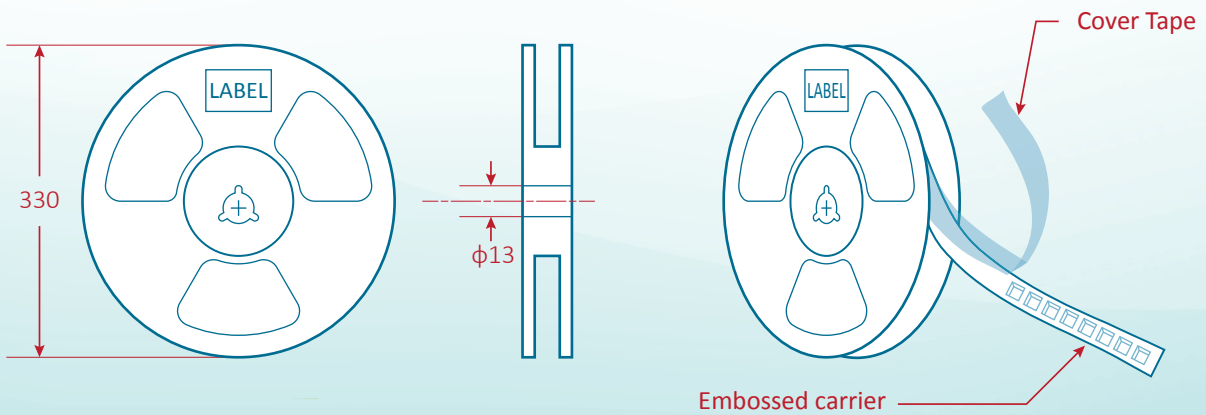


# Packing

Dimensions in mm



Bottom View



	Reel		Reel		Reel
LTR1004	Q'ty(Pcs) 750	LTR1005	Q'ty(Pcs) 750	LTR1007	Q'ty(Pcs) 500