## Inductors

# For Power Line Radial

#### FEATURES

- The TSL series feature low DC resistance and high current handling capacities, making them ideal for power supply line applications.
- These parts are manufactured to a high degree of dimensional accuracy using non-flammable material (UL94V-0).
- Available in tape packaging to support automated mounting machines.
- This product conforms to the standards that are slated to be introduced under the RoHS Directive.

#### **APPLICATIONS**

Televisions, VCRs, personal computers, and other electronic equipments.

#### **SPECIFICATIONS**

Operating temperature range	–20 to +85°C
	[Including self-temperature rise]
Storage temperature range	-40 to +85°C[Unit of products]
Terminal tensile strength	9.8N min.
Flow soldering condition	260°C /10 seconds

### TSL Series TSL1315 Type

#### PRODUCT IDENTIFICATION

TSL	1315	RA-	100	Κ	5R1	- PF
(1)	(2)	(3)	(4)	(5)	(6)	(7)

#### (1)Series name

#### (2)Dimensions

1315 ø14×17mm (lead pitch 7.5	imm)
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#### (3)Packaging style

RA	Taping(Ammo-pack)	
S	Bulk	

#### (4)Inductance value

100	10μΗ	
102	1000μΗ	

#### (5)Inductance tolerance

J	±5%	
К	±10%	

#### (6)Rated current

. ,	5R1	5.1A
	R99	0.99A

#### (7)Lead-free compatible product

PF Lead-free compatible product

#### PACKAGING STYLE AND QUANTITIES

Packaging style	Quantity
Taping (Ammo-pack)	200 pieces/box
Bulk	50 pieces/pack

• Conformity to RoHS Directive: This means that, in conformity with EU Directive 2002/95/EC, lead, cadmium, mercury, hexavalent chromium, and specific bromine-based flame retardants, PBB and PBDE, have not been used, except for exempted applications.

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#### SHAPES AND DIMENSIONS





Dimensions in mm

Weight: 7.5g

#### **ELECTRICAL CHARACTERISTICS**

$\begin{array}{c} \text{Inductance} \\ (\mu\text{H}) \\ \text{tolerance} \\ \text{tolerance} \\ \text{tolerance} \\ \text{min.} \\ \begin{array}{c} \text{frequency} \\ L/Q \\ (\text{Hz}) \\ (\text{MHz})\text{min.} \\ \begin{array}{c} \text{resistance} \\ (\Omega)\text{max.} \\ (\Omega)\text{max.} \\ \begin{array}{c} \text{Based on inductance} \\ \text{change} \\ \begin{array}{c} \text{Based on} \\ \text{temperature rise} \\ \end{array} \\ \begin{array}{c} \text{Part Ne} \\ \text{temperature rise} \\ \end{array} \\ \begin{array}{c} \text{TSL13} \\ \text{TSL13} \\ \end{array} \end{array}$	). 15⊡*²-100K5R1-PF
10 ±10% 90 1k/2.52M 19 0.023 12 5.1 TSL13	15 <sup>1</sup> *2-100K5R1-PF
	150-150K/B5-DE
15 ±10% 90 1k/2.52M 12 0.028 9.5 4.5 TSL13	
22 ±10% 80 1k/2.52M 7.6 0.035 8.2 4.2 TSL13	15□-220K4R2-PF
33 ±10% 70 1k/2.52M 6.9 0.043 6.8 3.7 TSL13	15□-330K3R7-PF
47 ±10% 50 1k/2.52M 5.6 0.052 5.7 3.4 TSL13	15□-470K3R4-PF
68 ±10% 40 1k/2.52M 4.4 0.068 4.8 3 TSL13	15□-680K3R0-PF
100 ±10% 50 1k/796k 3.3 0.097 3.9 2.5 TSL13	15□-101K2R5-PF
150 ±10% 50 1k/796k 2.6 0.14 3.2 2.1 TSL13	15□-151K2R1-PF
220 ±10% 40 1k/796k 2.2 0.2 2.7 1.7 TSL13	I5□-221K1R7-PF
330 ±10% 30 1k/796k 1.8 0.3 2.1 1.4 TSL13	15□-331K1R4-PF
470 ±10% 30 1k/796k 1.5 0.43 1.8 1.1 TSL13	15□-471K1R1-PF
680 ±10% 30 1k/796k 1.2 0.61 1.5 0.99 TSL13	15□-681KR99-PF
1000 ±5% 30 1k/252k 1 1 1 1.2 0.78 TSL13	15□-102JR78-PF
1500 ±5% 40 1k/252k 0.83 1.3 1 0.68 TSL13	15□-152JR68-PF
2200 ±5% 40 1k/252k 0.7 2 0.83 0.55 TSL13	15222JR55-PF
3300 ±5% 40 1k/252k 0.6 3.1 0.69 0.44 TSL13	15332JR44-PF
4700 ±5% 40 1k/252k 0.43 4.4 0.58 0.37 TSL13	15472JR37-PF
6800 ±5% 30 1k/252k 0.38 6.5 0.46 0.3 TSL13	15□-682JR30-PF
10000 ±5% 70 1k/79.6k 0.3 10 0.4 0.24 TSL13	15 -103 JR24-PF

\*1 Rated current: Value obtained when current flows and the temperature has risen to 25°C or when DC current flows and the initial value of inductance has fallen by 10%, whichever is smaller.

\*2 : Please specify packaging style, S(Bulk) or RA(Taping).

#### TYPICAL ELECTRICAL CHARACTERISTICS INDUCTANCE CHANGE vs. DC SUPERPOSITION CHARACTERISTICS



• All specifications are subject to change without notice.

## TSL Series TSL1315 Type