TDK

Radial Lead Inductors(Coils)
For Power Line

TSL Series TSL1315

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.

APPLICATIONS

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

SPECIFICATIONS

Operating temperature range	–40 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

PRODUCT IDENTIFICATION

TSL	1315	RA-	100	K	5R1
(1)	(2)	(3)	(4)	(5)	(6)

(1)Series name

(2)Dimensions

1315	ø14×17mm (lead pitch 7.5mm)

(3)Packaging style

RA	Taping(Ammo-pack)
S	Bulk

(4)Inductance value

100	10μH
102	1000μH

(5)Inductance tolerance

J	±5%
K	±10%

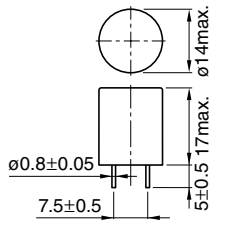
(6)Rated current

5R1	5.1A
R99	0.99A

PACKAGING STYLE AND QUANTITIES

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

SHAPES AND DIMENSIONS



Weight: 7.5g

Dimensions in mm

ELECTRICAL CHARACTERISTICS

Inductance (μH)	Inductance tolerance	Q typ.	Test frequency L/Q (Hz)	Self-resonant frequency (MHz)min.	DC resistance (Ω)max.	Rated current (A)*1max.		Part No.
						Based on inductance change	Based on temperature rise	
10	±10%	70	1k/2.52M	19	0.023	12	5.1	TSL1315□*2-100K5R1
15	±10%	70	1k/2.52M	12	0.028	9.5	4.5	TSL1315□-150K4R5
22	±10%	60	1k/2.52M	7.6	0.035	8.2	4.2	TSL1315□-220K4R2
33	±10%	50	1k/2.52M	6.9	0.043	6.8	3.7	TSL1315□-330K3R7
47	±10%	50	1k/2.52M	5.6	0.052	5.7	3.4	TSL1315□-470K3R4
68	±10%	40	1k/2.52M	4.4	0.068	4.8	3	TSL1315□-680K3R0
100	±10%	50	1k/796k	3.3	0.097	3.9	2.5	TSL1315□-101K2R5
150	±10%	50	1k/796k	2.6	0.14	3.2	2.1	TSL1315□-151K2R1
220	±10%	40	1k/796k	2.2	0.2	2.7	1.7	TSL1315□-221K1R7
330	±10%	30	1k/796k	1.8	0.3	2.1	1.4	TSL1315□-331K1R4
470	±10%	30	1k/796k	1.5	0.43	1.8	1.1	TSL1315□-471K1R1
680	±10%	30	1k/796k	1.2	0.61	1.5	0.99	TSL1315□-681KR99
1000	±5%	30	1k/252k	1	1	1.2	0.78	TSL1315□-102JR78
1500	±5%	40	1k/252k	0.83	1.3	1	0.68	TSL1315□-152JR68
2200	±5%	40	1k/252k	0.7	2	0.83	0.55	TSL1315□-222JR55
3300	±5%	40	1k/252k	0.6	3.1	0.69	0.44	TSL1315□-332JR44
4700	±5%	40	1k/252k	0.43	4.4	0.58	0.37	TSL1315□-472JR37
6800	±5%	30	1k/252k	0.38	6.5	0.46	0.3	TSL1315□-682JR30
10000	±5%	70	1k/79.6k	0.3	10	0.4	0.24	TSL1315□-103JR24

*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