

# Inductors

## For Power Line

### Radial

## TSL Series TSL1112 Type

### 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

### PRODUCT IDENTIFICATION

TSL	1112	RA-	3R3	M	5R9	-	PF
(1)	(2)	(3)	(4)	(5)	(6)	(7)	

(1)Series name

(2)Dimensions

1112	ø11.2×12.2mm (lead pitch 5mm)
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(3)Packaging style

RA	Taping(Ammo-pack)
S	Bulk

(4)Inductance value

3R3	3.3μH
100	10μH

(5)Inductance tolerance

J	±5%
K	±10%
M	±20%

(6)Rated current

5R9	5.9A
R56	0.56A

(7)Lead-free compatible product

PF	Lead-free compatible product
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### PACKAGING STYLE AND QUANTITIES

Packaging style	Quantity
Taping (Ammo-pack)	500 pieces/box
Bulk	400 pieces/8tray

- 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.

- All specifications are subject to change without notice.

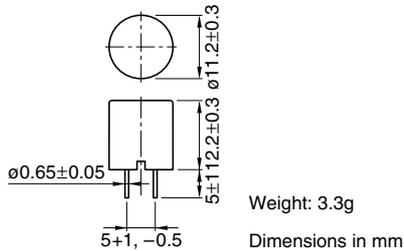
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### SHAPES AND DIMENSIONS



### ELECTRICAL CHARACTERISTICS

Inductance (μH)	Inductance tolerance	Q min.	Test frequency L/Q (Hz)	Self-resonant frequency (MHz)min.	DC resistance (Ω)max.	Rated current (A) <sup>*1</sup> max.		Part No.
						Based on inductance change	Based on temperature rise	
1.0	±20%	15	1k/7.96M	144	0.058	14	7.7	TSL1112□ <sup>*2</sup> -1R0M7R7-PF
2.2	±20%	15	1k/7.96M	70	0.073	10	6.7	TSL1112□-2R2M6R7-PF
3.3	±20%	10	1k/7.96M	36	0.01	8.8	5.9	TSL1112□-3R3M5R9-PF
4.7	±20%	10	1k/7.96M	28	0.015	7.2	4.8	TSL1112□-4R7M4R8-PF
6.8	±20%	10	1k/7.96M	18	0.016	6.1	4.6	TSL1112□-6R8M4R6-PF
10	±20%	20	1k/2.52M	16	0.025	5	3.7	TSL1112□-100M3R7-PF
15	±20%	20	1k/2.52M	12	0.029	4.2	3.4	TSL1112□-150M3R4-PF
22	±10%	20	1k/2.52M	9.5	0.04	3.4	2.9	TSL1112□-220K2R9-PF
33	±10%	30	1k/2.52M	7	0.062	2.8	2.3	TSL1112□-330K2R3-PF
47	±10%	30	1k/2.52M	5.8	0.075	2.3	2.1	TSL1112□-470K2R1-PF
68	±10%	20	1k/2.52M	4.7	0.13	1.9	1.6	TSL1112□-680K1R6-PF
100	±10%	20	1k/796k	3.8	0.16	1.6	1.4	TSL1112□-101K1R4-PF
150	±10%	20	1k/796k	3.1	0.26	1.3	1.1	TSL1112□-151K1R1-PF
220	±10%	20	1k/796k	2.5	0.33	1.1	1	TSL1112□-221K1R0-PF
330	±10%	20	1k/796k	2	0.52	0.88	0.82	TSL1112□-331KR82-PF
470	±10%	10	1k/796k	1.6	0.66	0.75	0.72	TSL1112□-471KR72-PF
680	±10%	10	1k/796k	1.3	1.1	0.61	0.56	TSL1112□-681KR56-PF
1000	±5%	20	1k/252k	1.1	1.4	0.51	0.5	TSL1112□-102JR50-PF
1500	±5%	30	1k/252k	0.82	2.4	0.43	0.38	TSL1112□-152JR38-PF
2200	±5%	20	1k/252k	0.76	3.2	0.35	0.33	TSL1112□-222JR33-PF
3300	±5%	30	1k/252k	0.64	4.9	0.28	0.26	TSL1112□-332JR26-PF
4700	±5%	30	1k/252k	0.54	7.6	0.24	0.21	TSL1112□-472JR21-PF
6800	±5%	30	1k/252k	0.45	9.8	0.2	0.18	TSL1112□-682JR18-PF
10000	±5%	30	1k/79.6k	0.38	18	0.17	0.14	TSL1112□-103JR14-PF
15000	±5%	50	1k/79.6k	0.29	24	0.13	0.12	TSL1112□-153JR12-PF

<sup>\*1</sup> 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.

<sup>\*2</sup> □: Please specify packaging style, S(Bulk) or RA(Taping).

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

