

# 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.

### 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.

### PRODUCT IDENTIFICATION

TSL	0709	RA-	1R0	M	5R0
(1)	(2)	(3)	(4)	(5)	(6)

(1)Series name

(2)Dimensions

0709	ø7.7×9.5mm (lead pitch 5mm)
0809	ø8.8×9.5mm (lead pitch 5mm)
1112	ø11.2×12.2mm (lead pitch 5mm)
1315	ø14×17mm (lead pitch 7.5mm)

(3)Packaging style

RA	Taping(Ammo-pack)
S	Bulk

(4)Inductance value

1R0	1μH
100	10μH

(5)Inductance tolerance

J	±5%
K	±10%
M	±20%

(6)Rated current

5R0	5A
R66	0.66A

### PACKAGING STYLE AND QUANTITIES

Packaging style	Type	Quantity
Taping (Ammo-pack)	TSL0709RA	1000 pieces/box
	TSL0809RA	500 pieces/box
	TSL1112RA	500 pieces/box
	TSL1315RA	200 pieces/box
Bulk	TSL0709S	500 pieces/10tray*
	TSL0809S	500 pieces/10tray
	TSL1112S	400 pieces/8tray
	TSL1315S	50 pieces/pack

\*50 pieces/tray

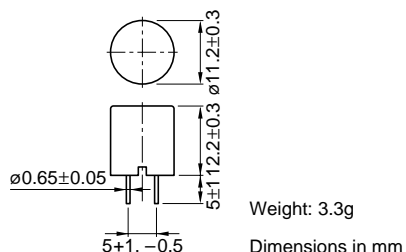
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### SHAPES AND DIMENSIONS



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

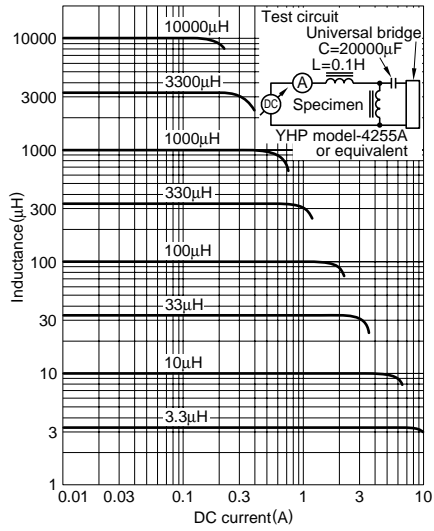
\* Rated current: Value obtained when current flows and the temperature has risen to 25°C or when DC current flows and the initial value of inductance has fallen by 10%, whichever is smaller.

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



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980917