

# Inductors

## For Power Line

### Radial

## TSL Series TSL0808 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	0808	RA-	3R3	M	3R8
(1)	(2)	(3)	(4)	(5)	(6)

(1)Series name

(2)Dimensions

0808	ø8.5×8.3mm (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

K	±10%
M	±20%

(6)Rated current

3R8	3.8A
R67	0.67A

### PACKAGING STYLE AND QUANTITIES

Packaging style	Quantity
Taping (Ammo-pack)	1000 pieces/box
Bulk	500 pieces/10tray

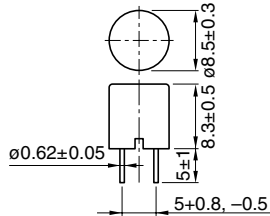
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### SHAPES AND DIMENSIONS



Weight: 1.5g

Dimensions in mm



### 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	34	0.017	4.5	3.8	TSL0808-3R3M3R8
4.7	±20%	10	1k/7.96M	27	0.021	3.8	3.5	TSL0808-4R7M3R5
6.8	±20%	10	1k/7.96M	22	0.025	3.2	3.1	TSL0808-6R8M3R1
10	±10%	20	1k/2.52M	17	0.031	2.6	2.7	TSL0808-100K2R6
15	±10%	20	1k/2.52M	13	0.042	2.1	2.4	TSL0808-150K2R1
22	±10%	20	1k/2.52M	10	0.07	1.7	1.9	TSL0808-220K1R7
33	±10%	20	1k/2.52M	8	0.092	1.4	1.5	TSL0808-330K1R4
47	±10%	20	1k/2.52M	6.5	0.13	1.2	1.3	TSL0808-470K1R2
68	±10%	20	1k/2.52M	5.4	0.16	1	1.1	TSL0808-680K1R0
100	±10%	20	1k/796k	4.4	0.25	0.8	0.94	TSL0808-101KR80
150	±10%	20	1k/796k	3.6	0.4	0.67	0.73	TSL0808-151KR67
220	±10%	15	1k/796k	2.9	0.53	0.54	0.64	TSL0808-221KR54
330	±10%	15	1k/796k	2.4	0.78	0.45	0.52	TSL0808-331KR45
470	±10%	15	1k/796k	2	1	0.38	0.46	TSL0808-471KR38
680	±10%	15	1k/796k	1.6	1.5	0.32	0.37	TSL0808-681KR32
1000	±10%	30	1k/252k	1.3	2.2	0.26	0.3	TSL0808-102KR26
1500	±10%	30	1k/252k	1.1	3.5	0.21	0.25	TSL0808-152KR21

\* 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.

### TYPICAL ELECTRICAL CHARACTERISTICS

#### INDUCTANCE CHANGE vs. DC SUPERPOSITION CHARACTERISTICS

