

Inductors

For Power Line

Radial

TSL Series TSL0809 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

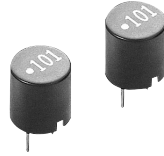
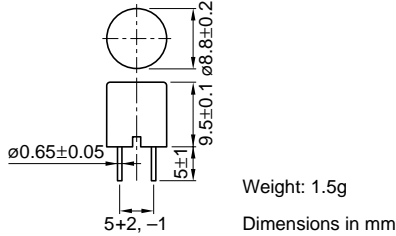
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SHAPES AND DIMENSIONS



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	
2.2	±20%	10	1k/7.96M	60	0.011	5.5	4	TSL0809-2R2M4R0
3.3	±20%	10	1k/7.96M	38	0.013	3.8	3.4	TSL0809-3R3M3R4
4.7	±20%	10	1k/7.96M	30	0.017	3.7	3	TSL0809-4R7M3R0
6.8	±20%	10	1k/7.96M	24	0.023	2.8	2.6	TSL0809-6R8M2R6
10	±10%	20	1k/2.52M	19	0.031	2.5	2.2	TSL0809-100K2R2
15	±10%	20	1k/2.52M	15	0.042	2	1.9	TSL0809-150K1R9
22	±10%	20	1k/2.52M	12	0.07	1.6	1.5	TSL0809-220K1R5
33	±10%	20	1k/2.52M	10	0.092	1.3	1.2	TSL0809-330K1R2
47	±10%	20	1k/2.52M	8.2	0.13	1.1	1	TSL0809-470K1R0
68	±10%	20	1k/2.52M	6.6	0.16	0.91	0.97	TSL0809-680KR91
100	±10%	15	1k/796k	5.4	0.23	0.75	0.81	TSL0809-101KR75
150	±10%	15	1k/796k	4.3	0.4	0.61	0.61	TSL0809-151KR61
220	±10%	15	1k/796k	3.5	0.53	0.5	0.53	TSL0809-221KR50
330	±10%	15	1k/796k	2.8	0.78	0.41	0.44	TSL0809-331KR41
470	±10%	10	1k/796k	2.3	1	0.34	0.39	TSL0809-471KR34
680	±10%	10	1k/796k	1.9	1.5	0.28	0.32	TSL0809-681KR28
1000	±10%	20	1k/252k	1.5	2.2	0.23	0.26	TSL0809-102KR23
1500	±10%	30	1k/252k	1.2	3.5	0.18	0.21	TSL0809-152KR18

* 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 20%, whichever is smaller.

TYPICAL ELECTRICAL CHARACTERISTICS

INDUCTANCE CHANGE vs. DC SUPERPOSITION CHARACTERISTICS

