

Inductors

For Power Line

Radial

TSL Series TSL0709 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)
0808	ø8.5×8.3mm (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
	TSL0808RA	1000 pieces/box
	TSL1112RA	500 pieces/box
	TSL1315RA	200 pieces/box
Bulk	TSL0709S	500 pieces/10tray*
	TSL0808S	500 pieces/10tray
	TSL1112S	400 pieces/8tray
	TSL1315S	50 pieces/pack

*50 pieces/tray

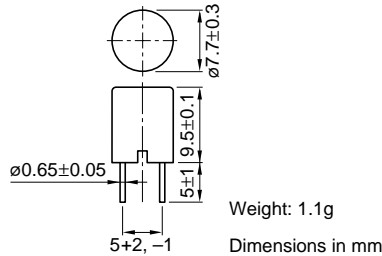
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SHAPES AND DIMENSIONS



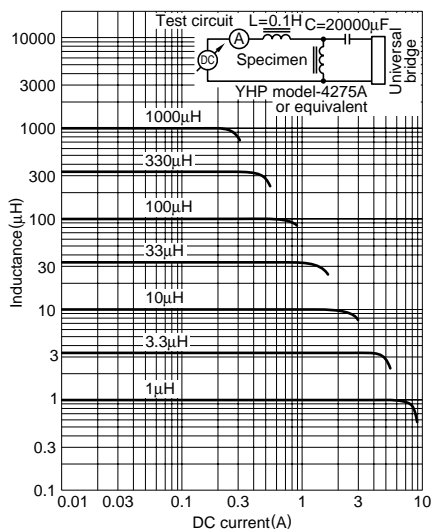
ELECTRICAL CHARACTERISTICS

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	
1	±20%	10	1k/7.96M	70	0.006	6.6	5	TSL0709-1R0M5R0
1.5	±20%	10	1k/7.96M	56	0.008	5.4	4.3	TSL0709-1R5M4R3
2.2	±20%	10	1k/7.96M	45	0.011	4	3.7	TSL0709-2R2M3R7
3.3	±20%	10	1k/7.96M	36	0.018	3.6	2.9	TSL0709-3R3M2R9
4.7	±20%	10	1k/7.96M	29	0.022	3.1	2.6	TSL0709-4R7M2R6
6.8	±20%	10	1k/7.96M	24	0.028	2.5	2.3	TSL0709-6R8M2R3
10	±10%	20	1k/2.52M	19	0.043	2.1	1.9	TSL0709-100K1R9
15	±10%	20	1k/2.52M	15	0.056	1.7	1.6	TSL0709-150K1R6
22	±10%	20	1k/2.52M	12	0.086	1.4	1.3	TSL0709-220K1R3
33	±10%	20	1k/2.52M	9.4	0.14	1.1	1	TSL0709-330K1R0
47	±10%	20	1k/2.52M	7.6	0.17	0.96	0.94	TSL0709-470KR94
68	±10%	20	1k/2.52M	6.2	0.28	0.79	0.73	TSL0709-680KR73
100	±10%	20	1k/796k	5	0.33	0.66	0.67	TSL0709-101KR66
150	±10%	20	1k/796k	4	0.56	0.53	0.52	TSL0709-151KR52
220	±10%	20	1k/796k	3.2	0.72	0.44	0.46	TSL0709-221KR44
330	±10%	20	1k/796k	2.5	1.1	0.36	0.37	TSL0709-331KR36
470	±10%	20	1k/796k	2	1.7	0.3	0.3	TSL0709-471KR30
680	±10%	20	1k/796k	1.7	2.3	0.25	0.26	TSL0709-681KR25
1000	±10%	70	1k/252k	1.3	4.3	0.2	0.19	TSL0709-102KR19
1500	±10%	50	1k/252k	1.3	5	0.17	0.16	TSL0709-152KR16

* 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



• All specifications are subject to change without notice.