

TSL1112RA-2R2M6R7-PF Datasheet



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DiGi Electronics Part Number TSL1112RA-2R2M6R7-PF-DG

Manufacturer TDK Corporation

Manufacturer Product Number TSL1112RA-2R2M6R7-PF

Description FIXED IND 2.2UH 6.7A 73 MOHM TH

Detailed Description 2.2 µH Unshielded Inductor 6.7 A 73mOhm Max Ra

dial, Vertical Cylinder



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RFQ Email: Info@DiGi-Electronics.com

DiGi is a global authorized distributor of electronic components.



Purchase and inquiry

Manufacturer Product Number:	Manufacturer:
TSL1112RA-2R2M6R7-PF	TDK Corporation
Series:	Product Status:
TSL	Obsolete
Type:	Material - Core:
Inductance:	Tolerance:
2.2 μΗ	±20%
Current Rating (Amps):	Current - Saturation (Isat):
6.7 A	10A
Shielding:	DC Resistance (DCR):
Unshielded	73mOhm Max
Q @ Freq:	Frequency - Self Resonant:
15 @ 7.96MHz	70MHz
Ratings:	Operating Temperature:
	-20°C ~ 85°C
Inductance Frequency - Test:	Mounting Type:
1 kHz	Through Hole
Package / Case:	Supplier Device Package:
Radial, Vertical Cylinder	
Size / Dimension:	Height - Seated (Max):
0.441" Dia (11.20mm)	0.492" (12.50mm)

Environmental & Export classification

Moisture Sensitivity Level (MSL):	ECCN:
1 (Unlimited)	EAR99
HTSUS:	
8504.50.4000	



Inductors for Power Circuits

Radial lead

TSL series

Type: TSL0709

TSL0808 TSL1112 TSL1315

Issue date: September 2011

[•] All specifications are subject to change without notice.

[•] 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.



REMINDERS FOR USING THESE PRODUCTS

Before using these products, be sure to request the delivery specifications.

SAFETY REMINDERS

Please pay sufficient attention to the warnings for safe designing when using these products.

⚠ REMINDERS	
The storage period is less than 12 months. Be sure to follow the storage conditions (Temperature: 5 to 30°C, Humidity: 10 RH or less). If the storage period elapses, the soldering of the terminal electrodes may deteriorate.	to 75%
Do not use or store in locations where there are conditions such as gas corrosion (salt, acid, alkali, etc.).	
Before soldering, be sure to preheat components. The preheating temperature should be set so that the temperature difference between the solder temperature and chip temperature not exceed 150°C.	perature
Soldering corrections after mounting should be within the range of the conditions determined in the specifications. If overheated, a short circuit, performance deterioration, or lifespan shortening may occur.	
When embedding a printed circuit board where a chip is mounted to a set, be sure that residual stress is not given to the chirthe overall distortion of the printed circuit board and partial distortion such as at screw tightening portions.	ip due to
Self heating (temperature increase) occurs when the power is turned ON, so the tolerance should be sufficient for the set the design.	ermal
Carefully lay out the coil for the circuit board design of the non-magnetic shield type. A malfunction may occur due to magnetic interference.	
Use a wrist band to discharge static electricity in your body through the grounding wire.	
Do not expose the products to magnets or magnetic fields.	
Do not use for a purpose outside of the contents regulated in the delivery specifications.	
The products listed on this catalog are intended for use in general electronic equipment (AV equipment, telecommunications equipment, home appliances, amusement equipment, computer equipment, personal equipment, office equipment, measure equipment, industrial robots) under a normal operation and use condition. The products are not designed or warranted to meet the requirements of the applications listed below, whose performance a quality require a more stringent level of safety or reliability, or whose failure, malfunction or trouble could cause serious damas society, person or property.	ement and/or
If you intend to use the products in the applications listed below or if you have special requirements exceeding the range or of set forth in the each catalog, please contact us	conditions

- (1) Aerospace/Aviation equipment
- (2) Transportation equipment (cars, electric trains, ships, etc.)
- (3) Medical equipment
- (4) Power-generation control equipment
- (5) Atomic energy-related equipment
- (6) Seabed equipment
- (7) Transportation control equipment

- (8) Public information-processing equipment
- (9) Military equipment
- (10) Electric heating apparatus, burning equipment
- (11) Disaster prevention/crime prevention equipment
- (12) Safety equipment
- (13) Other applications that are not considered general-purpose applications

When designing your equipment even for general-purpose applications, you are kindly requested to take into consideration securing protection circuit/device or providing backup circuits in your equipment.



Conformity to RoHS Directive

TSL Series TSL0709

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.
- It is a product conforming to RoHS directive.

APPLICATIONS

Televisions, VCRs, personal computers, and other electronic equipment.

SPECIFICATIONS

	-40 to +85°C
Operating temperature range	[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	0709	RA-	1R0	М	5R0	- PF
(1)	(2)	(3)	(4)	(5)	(6)	(7)

- (1)Series name
- (2)Dimensions

0709	a7 70 Emm (load nitch Emm)
0709	ø7.7×9.5mm (lead pitch 5mm)

(3)Packaging style

RA	Taping(Ammo-pack)
S	Bulk

(4)Inductance value

1R0	1μΗ	
100	10uH	

(5)Inductance tolerance

K	±10%	
M	±20%	

(6)Rated current

5R0	5A
R66	0.66A

(7)Lead-free compatible product

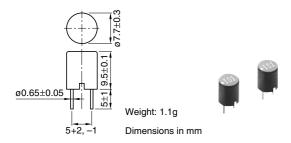
PF	Lead-free compatible product	
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Packaging style	Quantity
Taping (Ammo-pack)	1000 pieces/box
Bulk	500 pieces/10tray

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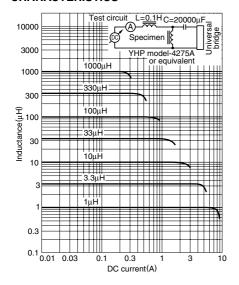
SHAPES AND DIMENSIONS



ELECTRICAL CHARACTERISTICS

			Test	Self-resonant	DC	Rated current(A)*1max.		
Inductance	Inductance	Q min.	frequency	frequency	resistance	Based on inductance	Based on	Part No.
(μH)	tolerance		L/Q (Hz)	(MHz)min.	(Ω) max.	change	temperature rise	
1	±20%	10	1k/7.96M	70	0.006	6.6	5	TSL0709□*2-1R0M5R0-PF
1.5	±20%	10	1k/7.96M	56	0.008	5.4	4.3	TSL0709□-1R5M4R3-PF
2.2	±20%	10	1k/7.96M	45	0.011	4	3.7	TSL0709□-2R2M3R7-PF
3.3	±20%	10	1k/7.96M	36	0.018	3.6	2.9	TSL0709□-3R3M2R9-PF
4.7	±20%	10	1k/7.96M	29	0.022	3.1	2.6	TSL0709□-4R7M2R6-PF
6.8	±20%	10	1k/7.96M	24	0.028	2.5	2.3	TSL0709□-6R8M2R3-PF
10	±10%	20	1k/2.52M	19	0.043	2.1	1.9	TSL0709□-100K1R9-PF
15	±10%	20	1k/2.52M	15	0.056	1.7	1.6	TSL0709□-150K1R6-PF
22	±10%	20	1k/2.52M	12	0.086	1.4	1.3	TSL0709□-220K1R3-PF
33	±10%	20	1k/2.52M	9.4	0.14	1.1	1	TSL0709□-330K1R0-PF
47	±10%	20	1k/2.52M	7.6	0.17	0.96	0.94	TSL0709□-470KR94-PF
68	±10%	20	1k/2.52M	6.2	0.28	0.79	0.73	TSL0709□-680KR73-PF
100	±10%	20	1k/796k	5	0.33	0.66	0.67	TSL0709□-101KR66-PF
150	±10%	20	1k/796k	4	0.56	0.53	0.52	TSL0709□-151KR52-PF
220	±10%	20	1k/796k	3.2	0.72	0.44	0.46	TSL0709□-221KR44-PF
330	±10%	20	1k/796k	2.5	1.1	0.36	0.37	TSL0709□-331KR36-PF
470	±10%	20	1k/796k	2	1.7	0.3	0.3	TSL0709□-471KR30-PF
680	±10%	20	1k/796k	1.7	2.3	0.25	0.26	TSL0709□-681KR25-PF
1000	±10%	70	1k/252k	1.3	4.3	0.2	0.19	TSL0709□-102KR19-PF
1500	±10%	50	1k/252k	1.3	5	0.17	0.16	TSL0709□-152KR16-PF

^{*1} 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.



^{*2 ☐:} Please specify packaging style, S(Bulk) or RA(Taping).

[•] All specifications are subject to change without notice.



Conformity to RoHS Directive

TSL Series TSL0808

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.
- It is a product conforming to RoHS directive.

APPLICATIONS

Televisions, VCRs, personal computers, and other electronic equipment.

SPECIFICATIONS

	-40 to +85°C
Operating temperature range	[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	8080	RA-	3R3	M	3R8	- PF
(1)	(2)	(3)	(4)	(5)	(6)	(7)

(1)Series name

(2)Dimensions

0808	ø8.5×8.3mm (lead pitch 5mm)

(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	

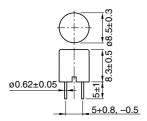
(7)Lead-free compatible product

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

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ATDK

SHAPES AND DIMENSIONS



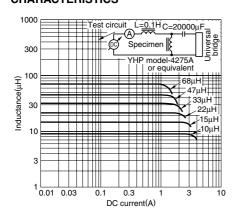


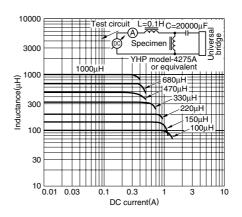


ELECTRICAL CHARACTERISTICS

Industance	Inductance Inductance		Test	Self-resonant	DC	Rated current (A)*1max.		
muuctance (μΗ)	tolerance	Q min.	frequency	frequency	resistance	Based on inductance	Based on	Part No.
(μπ)	tolerance	111111.	L/Q (Hz)	(MHz)min.	(Ω) max.	change	temperature rise	
2.2	±20%	10	1k/7.96M	45	0.015	5.6	3.9	TSL0808 = *2-2R2M3R9-PF
3.3	±20%	10	1k/7.96M	34	0.017	4.5	3.8	TSL0808□-3R3M3R8-PF
4.7	±20%	10	1k/7.96M	27	0.021	3.8	3.5	TSL0808□-4R7M3R5-PF
6.8	±20%	10	1k/7.96M	22	0.025	3.2	3.1	TSL0808□-6R8M3R1-PF
10	±10%	20	1k/2.52M	17	0.031	2.6	2.7	TSL0808 □-100K2R6-PF
15	±10%	20	1k/2.52M	13	0.042	2.1	2.4	TSL0808□-150K2R1-PF
22	±10%	20	1k/2.52M	10	0.07	1.7	1.9	TSL0808□-220K1R7-PF
33	±10%	20	1k/2.52M	8	0.092	1.4	1.5	TSL0808 □-330K1R4-PF
47	±10%	20	1k/2.52M	6.5	0.13	1.2	1.3	TSL0808□-470K1R2-PF
68	±10%	20	1k/2.52M	5.4	0.16	1	1.1	TSL0808□-680K1R0-PF
100	±10%	20	1k/796k	4.4	0.25	0.8	0.94	TSL0808 □-101KR80-PF
150	±10%	20	1k/796k	3.6	0.4	0.67	0.73	TSL0808 □-151KR67-PF
220	±10%	15	1k/796k	2.9	0.53	0.54	0.64	TSL0808□-221KR54-PF
330	±10%	15	1k/796k	2.4	0.78	0.45	0.52	TSL0808□-331KR45-PF
470	±10%	15	1k/796k	2	1	0.38	0.46	TSL0808 □-471KR38-PF
680	±10%	15	1k/796k	1.6	1.5	0.32	0.37	TSL0808 □ -681KR32-PF
1000	±10%	30	1k/252k	1.3	2.2	0.26	0.3	TSL0808 □-102KR26-PF
1500	±10%	30	1k/252k	1.1	3.5	0.21	0.25	TSL0808 □-152KR21-PF
2200	±10%	50	1k/252k	0.88	6.4	0.17	0.21	TSL0808 □-222KR17-PF
3300	±10%	50	1k/252k	0.71	8.5	0.14	0.16	TSL0808 □-332KR14-PF
4700	±5%	50	1k/252k	0.68	12.2	0.15	0.13	TSL0808 □ -472JR13-PF

^{*}¹ 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.





^{*2 :} Please specify packaging style, S(Bulk) or RA(Taping).

[•] All specifications are subject to change without notice.



Conformity to RoHS Directive

TSL Series TSL1112

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.
- It is a product conforming to RoHS directive.

APPLICATIONS

Televisions, VCRs, personal computers, and other electronic equipment.

SPECIFICATIONS

	-40 to +85°C
Operating temperature range	[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)

(3)Packaging style

RA	Taping(Ammo-pack)
S	Bulk

(4)Inductance value

3R3	3.3μΗ	
100	10μH	

(5)Inductance tolerance

J	±5%	
K	±10%	
М	+20%	

(6)Rated current

5R9	5.9A	
R56	0.56A	

(7)Lead-free compatible product

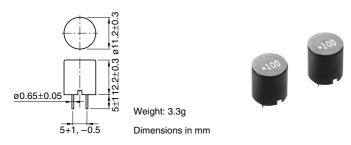
PF	Lead-free compatible product

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

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ATDK

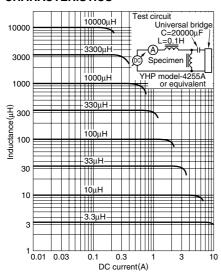
SHAPES AND DIMENSIONS



ELECTRICAL CHARACTERISTICS

la di rata a a a	_	Test	Self-resonant	DC	Rated current (A)*1max	X.	
		frequency	frequency	resistance	Based on inductance	Based on	Part No.
tolerance	111111.	L/Q (Hz)	(MHz)min.	(Ω) max.	change	temperature rise	
±20%	15	1k/7.96M	144	0.058	14	7.7	TSL1112□*2-1R0M7R7-PF
±20%	15	1k/7.96M	70	0.073	10	6.7	TSL1112□-2R2M6R7-PF
±20%	10	1k/7.96M	36	0.01	8.8	5.9	TSL1112□-3R3M5R9-PF
±20%	10	1k/7.96M	28	0.015	7.2	4.8	TSL1112□-4R7M4R8-PF
±20%	10	1k/7.96M	18	0.016	6.1	4.6	TSL1112□-6R8M4R6-PF
±20%	20	1k/2.52M	16	0.025	5	3.7	TSL1112□-100M3R7-PF
±20%	20	1k/2.52M	12	0.029	4.2	3.4	TSL1112 ☐ -150M3R4-PF
±10%	20	1k/2.52M	9.5	0.04	3.4	2.9	TSL1112 ☐ -220K2R9-PF
±10%	30	1k/2.52M	7	0.062	2.8	2.3	TSL1112□-330K2R3-PF
±10%	30	1k/2.52M	5.8	0.075	2.3	2.1	TSL1112□-470K2R1-PF
±10%	20	1k/2.52M	4.7	0.13	1.9	1.6	TSL1112□-680K1R6-PF
±10%	20	1k/796k	3.8	0.16	1.6	1.4	TSL1112□-101K1R4-PF
±10%	20	1k/796k	3.1	0.26	1.3	1.1	TSL1112□-151K1R1-PF
±10%	20	1k/796k	2.5	0.33	1.1	1	TSL1112 ☐ -221K1R0-PF
±10%	20	1k/796k	2	0.52	0.88	0.82	TSL1112□-331KR82-PF
±10%	10	1k/796k	1.6	0.66	0.75	0.72	TSL1112□-471KR72-PF
±10%	10	1k/796k	1.3	1.1	0.61	0.56	TSL1112□-681KR56-PF
±5%	20	1k/252k	1.1	1.4	0.51	0.5	TSL1112 ☐-102JR50-PF
±5%	30	1k/252k	0.82	2.4	0.43	0.38	TSL1112□-152JR38-PF
±5%	20	1k/252k	0.76	3.2	0.35	0.33	TSL1112 □ -222JR33-PF
±5%	30	1k/252k	0.64	4.9	0.28	0.26	TSL1112 ☐-332JR26-PF
±5%	30	1k/252k	0.54	7.6	0.24	0.21	TSL1112 ☐ -472JR21-PF
±5%	30	1k/252k	0.45	9.8	0.2	0.18	TSL1112□-682JR18-PF
±5%	30	1k/79.6k	0.38	18	0.17	0.14	TSL1112□-103JR14-PF
±5%	50	1k/79.6k	0.29	24	0.13	0.12	TSL1112□-153JR12-PF
	±20% ±20% ±20% ±20% ±20% ±20% ±10% ±10% ±10% ±10% ±10% ±10% ±50% ±5% ±5% ±5% ±5% ±5% ±5%	tolerance min. ±20% 15 ±20% 15 ±20% 10 ±20% 10 ±20% 10 ±20% 20 ±10% 20 ±10% 20 ±10% 20 ±10% 20 ±10% 20 ±10% 20 ±10% 20 ±50% 20 ±10% 20 ±50% 20 ±50% 20 ±50% 20 ±50% 30 ±5% 30 ±5% 30 ±5% 30	Inductance tolerance Q min. frequency L/Q (Hz) ±20% 15 1k/7.96M ±20% 15 1k/7.96M ±20% 10 1k/7.96M ±20% 10 1k/7.96M ±20% 10 1k/7.96M ±20% 20 1k/2.52M ±20% 20 1k/2.52M ±10% 20 1k/2.52M ±10% 30 1k/2.52M ±10% 30 1k/2.52M ±10% 20 1k/7.52M ±10% 20 1k/796k ±10% 10 1k/796k ±10% 10 1k/796k ±5% 20 1k/252k ±5% 30 1k/252k ±5% 30 1k/252k ±5% 30 1k/252k ±5% <td>Inductance tolerance Q min. frequency L/Q (Hz) frequency (MHz)min. ±20% 15 1k/7.96M 144 ±20% 15 1k/7.96M 70 ±20% 10 1k/7.96M 36 ±20% 10 1k/7.96M 28 ±20% 10 1k/7.96M 18 ±20% 20 1k/2.52M 16 ±20% 20 1k/2.52M 12 ±10% 20 1k/2.52M 9.5 ±10% 30 1k/2.52M 7 ±10% 30 1k/2.52M 7 ±10% 30 1k/2.52M 4.7 ±10% 20 1k/796k 3.8 ±10% 20 1k/796k 3.8 ±10% 20 1k/796k 3.1 ±10% 20 1k/796k 2.5 ±10% 20 1k/796k 2.5 ±10% 10 1k/796k 1.6 ±10% 10 1k/796k</td> <td>Inductance tolerance Q min. frequency L/Q (Hz) frequency (MHz)min. resistance (Ω)max. ±20% 15 1k/7.96M 144 0.058 ±20% 15 1k/7.96M 70 0.073 ±20% 10 1k/7.96M 36 0.01 ±20% 10 1k/7.96M 28 0.015 ±20% 10 1k/7.96M 18 0.016 ±20% 20 1k/2.52M 16 0.025 ±20% 20 1k/2.52M 12 0.029 ±10% 20 1k/2.52M 9.5 0.04 ±10% 30 1k/2.52M 7 0.062 ±10% 30 1k/2.52M 7 0.062 ±10% 30 1k/2.52M 4.7 0.13 ±10% 20 1k/796k 3.8 0.16 ±10% 20 1k/796k 3.1 0.26 ±10% 20 1k/796k 2.5 0.33 ±10%</td> <td>Inductance tolerance Q min. frequency L/Q (Hz) frequency (MHz)min. resistance (Ω)max. Based on inductance change ±20% 15 1k/7.96M 144 0.058 14 ±20% 15 1k/7.96M 70 0.073 10 ±20% 10 1k/7.96M 36 0.01 8.8 ±20% 10 1k/7.96M 18 0.015 7.2 ±20% 10 1k/7.96M 18 0.016 6.1 ±20% 20 1k/2.52M 16 0.025 5 ±20% 20 1k/2.52M 12 0.029 4.2 ±10% 20 1k/2.52M 9.5 0.04 3.4 ±10% 30 1k/2.52M 7 0.062 2.8 ±10% 30 1k/2.52M 7 0.062 2.8 ±10% 20 1k/796k 3.8 0.16 1.6 ±10% 20 1k/796k 3.1 0.26 1.3 <</td> <td>Inductance tolerance Qmin. frequency L/Q (Hz) frequency (MHz)min. resistance (Ω)max. Based on inductance change Based on temperature rise ±20% 15 1k/7.96M 144 0.058 14 7.7 ±20% 15 1k/7.96M 70 0.073 10 6.7 ±20% 10 1k/7.96M 36 0.01 8.8 5.9 ±20% 10 1k/7.96M 28 0.015 7.2 4.8 ±20% 10 1k/7.96M 18 0.016 6.1 4.6 ±20% 10 1k/7.96M 18 0.016 6.1 4.6 ±20% 20 1k/2.52M 16 0.025 5 3.7 ±20% 20 1k/2.52M 12 0.029 4.2 3.4 ±10% 30 1k/2.52M 7 0.062 2.8 2.3 ±10% 30 1k/2.52M 7 0.062 2.8 2.3 ±10% 20</td>	Inductance tolerance Q min. frequency L/Q (Hz) frequency (MHz)min. ±20% 15 1k/7.96M 144 ±20% 15 1k/7.96M 70 ±20% 10 1k/7.96M 36 ±20% 10 1k/7.96M 28 ±20% 10 1k/7.96M 18 ±20% 20 1k/2.52M 16 ±20% 20 1k/2.52M 12 ±10% 20 1k/2.52M 9.5 ±10% 30 1k/2.52M 7 ±10% 30 1k/2.52M 7 ±10% 30 1k/2.52M 4.7 ±10% 20 1k/796k 3.8 ±10% 20 1k/796k 3.8 ±10% 20 1k/796k 3.1 ±10% 20 1k/796k 2.5 ±10% 20 1k/796k 2.5 ±10% 10 1k/796k 1.6 ±10% 10 1k/796k	Inductance tolerance Q min. frequency L/Q (Hz) frequency (MHz)min. resistance (Ω)max. ±20% 15 1k/7.96M 144 0.058 ±20% 15 1k/7.96M 70 0.073 ±20% 10 1k/7.96M 36 0.01 ±20% 10 1k/7.96M 28 0.015 ±20% 10 1k/7.96M 18 0.016 ±20% 20 1k/2.52M 16 0.025 ±20% 20 1k/2.52M 12 0.029 ±10% 20 1k/2.52M 9.5 0.04 ±10% 30 1k/2.52M 7 0.062 ±10% 30 1k/2.52M 7 0.062 ±10% 30 1k/2.52M 4.7 0.13 ±10% 20 1k/796k 3.8 0.16 ±10% 20 1k/796k 3.1 0.26 ±10% 20 1k/796k 2.5 0.33 ±10%	Inductance tolerance Q min. frequency L/Q (Hz) frequency (MHz)min. resistance (Ω)max. Based on inductance change ±20% 15 1k/7.96M 144 0.058 14 ±20% 15 1k/7.96M 70 0.073 10 ±20% 10 1k/7.96M 36 0.01 8.8 ±20% 10 1k/7.96M 18 0.015 7.2 ±20% 10 1k/7.96M 18 0.016 6.1 ±20% 20 1k/2.52M 16 0.025 5 ±20% 20 1k/2.52M 12 0.029 4.2 ±10% 20 1k/2.52M 9.5 0.04 3.4 ±10% 30 1k/2.52M 7 0.062 2.8 ±10% 30 1k/2.52M 7 0.062 2.8 ±10% 20 1k/796k 3.8 0.16 1.6 ±10% 20 1k/796k 3.1 0.26 1.3 <	Inductance tolerance Qmin. frequency L/Q (Hz) frequency (MHz)min. resistance (Ω)max. Based on inductance change Based on temperature rise ±20% 15 1k/7.96M 144 0.058 14 7.7 ±20% 15 1k/7.96M 70 0.073 10 6.7 ±20% 10 1k/7.96M 36 0.01 8.8 5.9 ±20% 10 1k/7.96M 28 0.015 7.2 4.8 ±20% 10 1k/7.96M 18 0.016 6.1 4.6 ±20% 10 1k/7.96M 18 0.016 6.1 4.6 ±20% 20 1k/2.52M 16 0.025 5 3.7 ±20% 20 1k/2.52M 12 0.029 4.2 3.4 ±10% 30 1k/2.52M 7 0.062 2.8 2.3 ±10% 30 1k/2.52M 7 0.062 2.8 2.3 ±10% 20

^{*1} 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.



[•] All specifications are subject to change without notice.

 $^{^{*2}}$ \square : Please specify packaging style, S(Bulk) or RA(Taping).



Conformity to RoHS Directive

TSL Series TSL1315

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.
- It is a product conforming to RoHS directive.

APPLICATIONS

Televisions, VCRs, personal computers, and other electronic equipment.

SPECIFICATIONS

	-40 to +85°C
Operating temperature range	[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	1315	RA-	100	K	5R1	- PF
(1)	(2)	(3)	(4)	(5)	(6)	(7)

(1)Series name

(2)Dimensions

1315	ø14×17mm (lead pitch 7.5mm)
•	

(3)Packaging style

RA	Taping(Ammo-pack)
S	Bulk

(4)Inductance value

100	10μΗ	
102	1000uH	

(5)Inductance tolerance

J	±5%	
K	+10%	

(6)Rated current

5R1	5.1A	
R99	0.99A	

(7)Lead-free compatible product

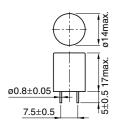
PF Lead-free compatible prod

Packaging style	Quantity
Taping (Ammo-pack)	200 pieces/box
Bulk	50 pieces/pack

[•] 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.

&TDK

SHAPES AND DIMENSIONS







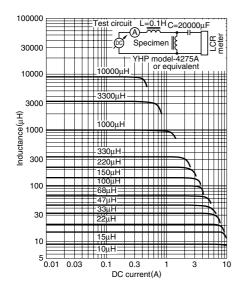
Weight: 7.5g

Dimensions in mm

ELECTRICAL CHARACTERISTICS

Inductance Inductance		Q	Test	Self-resonant DC Rated current (A)*1max.		x.		
(µH)	tolerance		frequency	frequency	resistance	Based on inductance	Based on	Part No.
(μπ)	tolerance	typ.	L/Q (Hz)	(MHz)min.	(Ω) max.	change	temperature rise	
10	±10%	70	1k/2.52M	19	0.023	12	5.1	TSL1315□*2-100K5R1-PF
15	±10%	70	1k/2.52M	12	0.028	9.5	4.5	TSL1315□-150K4R5-PF
22	±10%	60	1k/2.52M	7.6	0.035	8.2	4.2	TSL1315□-220K4R2-PF
33	±10%	50	1k/2.52M	6.9	0.043	6.8	3.7	TSL1315□-330K3R7-PF
47	±10%	50	1k/2.52M	5.6	0.052	5.7	3.4	TSL1315□-470K3R4-PF
68	±10%	40	1k/2.52M	4.4	0.068	4.8	3	TSL1315□-680K3R0-PF
100	±10%	50	1k/796k	3.3	0.097	3.9	2.5	TSL1315□-101K2R5-PF
150	±10%	50	1k/796k	2.6	0.14	3.2	2.1	TSL1315□-151K2R1-PF
220	±10%	40	1k/796k	2.2	0.2	2.7	1.7	TSL1315□-221K1R7-PF
330	±10%	30	1k/796k	1.8	0.3	2.1	1.4	TSL1315□-331K1R4-PF
470	±10%	30	1k/796k	1.5	0.43	1.8	1.1	TSL1315□-471K1R1-PF
680	±10%	30	1k/796k	1.2	0.61	1.5	0.99	TSL1315□-681KR99-PF
1000	±5%	30	1k/252k	1	1	1.2	0.78	TSL1315□-102JR78-PF
1500	±5%	40	1k/252k	0.83	1.3	1	0.68	TSL1315□-152JR68-PF
2200	±5%	40	1k/252k	0.7	2	0.83	0.55	TSL1315□-222JR55-PF
3300	±5%	40	1k/252k	0.6	3.1	0.69	0.44	TSL1315□-332JR44-PF
4700	±5%	40	1k/252k	0.43	4.4	0.58	0.37	TSL1315□-472JR37-PF
6800	±5%	30	1k/252k	0.38	6.5	0.46	0.3	TSL1315□-682JR30-PF
10000	±5%	70	1k/79.6k	0.3	10	0.4	0.24	TSL1315□-103JR24-PF

^{*1} 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.



^{*2 :} Please specify packaging style, S(Bulk) or RA(Taping).

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OUR CERTIFICATE

DiGi provide top-quality products and perfect service for customer worldwide through standardization, technological innovation and continuous improvement. DiGi through third-party certification, we striciy control the quality of products and services. Welcome your RFQ to Email: Info@DiGi-Electronics.com

















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