

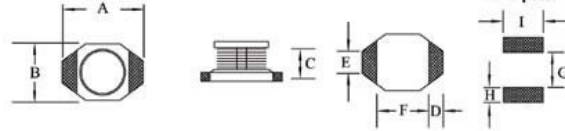
TSL0603Type  
 TSL1303Type  
 TSL1305Type  
 TSL1311Type  
 TSL1807Type

- \* SMD type, small size.
- \* Low cost.
- \* For high currents and very low DCR.
- \* Have a swing inductance vs current characteristic.
- \* Flat bottom for reliable surface mounting.
- \* Reflow soldering & hand soldering are available.
- \* Good solder fillets and easy inspection.
- \* Good temperature character prevent damage during solder reflow.
- \* Customer designed available.



Land pattern

**Construction:**



Unit : ( m/m)

Type	A(MAX)	B(MAX)	C(MAX)	D	E	F	G	H	I
TSL0603	6.60	4.45	2.92	1.02	1.27	4.32	4.06	1.40	3.56
TSL1303	12.95	9.40	3.00	2.54	2.54	7.62	7.37	2.92	2.79
TSL1305	12.95	9.40	5.40	2.54	2.54	7.62	7.37	2.92	2.79
TSL1311	12.95	9.40	11.43	2.54	2.54	7.62	7.37	2.92	2.79
TSL1807	18.54	15.24	7.11	2.54	2.54	12.70	12.45	2.92	2.79

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**Electrical Specification**

Unit : ( m/m)

Part number	L ± 20%(M) (μH)	DCR Max (Ohms)	Isat2 (A)	Irms3 (A)
TSL0603-1R0	1.0	0.05	2.9	2.9
TSL0603-1R5	1.5	0.05	2.6	2.8
TSL0603-2R2	2.2	0.07	2.3	2.4
TSL0603-3R3	3.3	0.08	2.0	2.0
TSL0603-4R7	4.7	0.09	1.5	1.5
TSL0603-6R8	6.8	0.13	1.2	1.4
TSL0603-100	10	0.16	1.1	1.1
TSL0603-150	15	0.23	0.90	1.2
TSL0603-220	22	0.37	0.70	0.8
TSL0603-330	33	0.51	0.58	0.6
TSL0603-470	47	0.64	0.50	0.5
TSL0603-680	68	0.86	0.40	0.4
TSL0603-101	100	1.27	0.31	0.3
TSL0603-151	150	2.00	0.27	0.25
TSL0603-221	220	3.11	0.22	0.20
TSL0603-331	330	3.80	0.18	0.16
TSL0603-471	470	5.06	0.16	0.15
TSL0603-681	680	9.20	0.14	0.12
TSL0603-102	1000	13.8	0.10	0.07

1. Tested at 100KHz, 0.1 Vrms
2. Inductance drop = 10% typ. at rated Isat
3. For 15°C temperature rise typ. at Irms.
4. Operating temperature range -40°C to +85°C
5. Electrical specifications at 25°C

**Electrical Specification**

Unit :( m/m)

Part number	L±20%(M) (μH)	DCR Max (Ohms)	Isat2 (A)	Irms3 (A)
TSL1303-100	10	0.11	2.4	2.0
TSL1303-150	15	0.15	2.0	1.5
TSL1303-220	22	0.23	1.6	1.3
TSL1303-330	33	0.30	1.4	1.1
TSL1303-470	47	0.39	1.0	0.8
TSL1303-680	68	0.66	0.9	0.7
TSL1303-101	100	0.84	0.7	0.6
TSL1303-151	150	1.2	0.6	0.5
TSL1303-221	220	1.9	0.5	0.4
TSL1303-331	330	2.7	0.4	0.3
TSL1303-471	470	4.0	0.3	0.2
TSL1303-681	680	5.3	0.2	0.1
TSL1303-102	1000	8.4	0.1	0.05

1. Tested at 100KHz, 0.1 Vrms
2. Inductance drop = 10% typ. at rated Isat
3. For 30°C temperature rise typ. at Irms.
4. Operating temperature range -40°C to +85°C
5. Electrical specifications at 25°C

**Electrical Specification**

Unit :( m/m)

Part number	L ± 20%(M) (µH)	DCR Max (Ohms)	Isat2 (A)	Irms3 (A)
TSL1305-1R0	1.0	0.009	9	6.8
TSL1305-1R5	1.5	0.010	8	6.4
TSL1305-2R2	2.2	0.012	7	6.1
TSL1305-3R3	3.3	0.170	6.4	5.4
TSL1305-4R7	4.7	0.180	5.4	4.8
TSL1305-6R8	6.8	0.027	4.6	4.4
TSL1305-100	10	0.038	3.8	3.9
TSL1305-150	15	0.046	3.0	3.1
TSL1305-220	22	0.085	2.6	2.7
TSL1305-330	33	0.10	2.0	2.1
TSL1305-470	47	0.14	1.6	1.8
TSL1305-680	68	0.20	1.4	1.5
TSL1305-101	100	0.28	1.2	1.3
TSL1305-151	150	0.40	1.0	1.0
TSL1305-221	220	0.61	0.8	0.8
TSL1305-331	330	1.02	0.6	0.6
TSL1305-471	470	1.27	0.5	0.5
TSL1305-681	680	2.02	0.4	0.4
TSL1305-102	1000	3.00	0.3	0.3

1. Tested at 100KHz, 0.1 Vrms
2. Inductance drop = 10% typ. at rated Isat
3. For 40°C temperature rise typ. at Irms.
4. Operating temperature range -40°C to +85°C
5. Electrical specifications at 25°C

**Electrical Specification**

Unit :( m/m)

Part number	L ± 20%(M) (µH)	DCR Max (Ohms)	Isat2 (A)	Irms3 (A)
TSL1311-100	10	0.040	8	3.5
TSL1311-150	15	0.050	7	3.0
TSL1311-220	22	0.066	5.5	2.5
TSL1311-330	33	0.080	4.0	2.0
TSL1311-470	47	0.11	3.8	1.6
TSL1311-680	68	0.17	3.0	1.2
TSL1311-101	100	0.22	2.5	1.2
TSL1311-151	150	0.34	2.0	0.9
TSL1311-221	220	0.44	1.6	0.7
TSL1311-331	330	0.70	1.2	0.6
TSL1311-471	470	0.95	1.0	0.3
TSL1311-681	680	1.20	1.0	0.2
TSL1311-102	1000	2.00	0.8	0.1

1. Tested at 100KHz, 0.1 Vrms
2. Inductance drop = 10% typ. at rated Isat
3. For 20°C temperature rise typ. at Irms.
4. Operating temperature range -40°C to +85°C
5. Electrical specifications at 25°C

**Electrical Specification**

Unit :( m/m)

Part number	L ± 20%(M) (µH)	DCR Max (Ohms)	Isat2 (A)	Irms3 (A)
TSL1807-1R0	1.0	0.009	20	8.6
TSL1807-2R2	2.2	0.014	16	7.1
TSL1807-3R3	3.3	0.018	14	6.2
TSL1807-5R6	5.6	0.020	12	5.3
TSL1807-100	10	0.031	10	4.3
TSL1807-150	15	0.036	8	4.0
TSL1807-220	22	0.047	7	3.5
TSL1807-330	33	0.066	5.5	3.0
TSL1807-470	47	0.086	4.5	2.6
TSL1807-680	68	0.13	3.5	2.3
TSL1807-101	100	0.19	3.0	1.8
TSL1807-151	150	0.25	2.6	1.5
TSL1807-221	220	0.38	2.4	1.2
TSL1807-331	330	0.56	1.9	1.0
TSL1807-471	470	0.85	1.4	0.82
TSL1807-681	680	1.10	1.2	0.72
TSL1807-102	1000	1.05	1.0	0.56

1. Tested at 100KHz, 0.1 Vrms
2. Inductance drop = 10% typ. at rated Isat
3. For 40°C temperature rise typ. at Irms.
4. Operating temperature range -40°C to +85°C
5. Electrical specifications at 25°C.