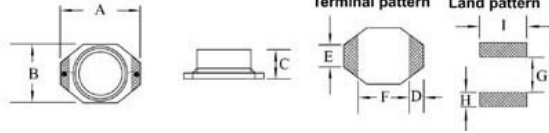


TSS0603Type
 TSS1305Type
 TSS1807Type

- * Magnetically shielded.
- * For high currents very low DCR & high efficiency.
- * 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.
- * For use at switching frequencies from 50 KHz TO 1 MHz.
- * Customer designed available.



Construction:



Unit : (m/m)

Type	A(MAX)	B(MAX)	C(MAX)	D	E	F	G	H	I
TSS0603	6.60	4.45	2.92	1.02	1.27	4.32	4.06	1.40	3.56
TSS1305	12.95	9.40	5.08	2.54	2.54	7.62	7.37	2.92	2.79
TSS1807	18.54	15.24	7.62	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)	Q min	DCR Max (Ohms)	SRF typ (MHz)	Current max. (A)
TSS0603-1R0	1.0	30 @ 200 KHz	0.040	250	3.0
TSS0603-1R5	1.5	30 @ 200 KHz	0.045	125	2.8
TSS0603-2R2	2.2	40 @ 200 KHz	0.050	120	1.8
TSS0603-3R3	3.3	40 @ 200 KHz	0.055	120	1.6
TSS0603-4R7	4.7	40 @ 200 KHz	0.060	105	1.4
TSS0603-6R8	6.8	40 @ 200 KHz	0.065	50	1.2
TSS0603-100	10	40 @ 200 KHz	0.075	38	1.0
TSS0603-150	15	40 @ 100 KHz	0.090	33	0.8
TSS0603-220	22	40 @ 100 KHz	0.11	25	0.7
TSS0603-330	33	40 @ 100 KHz	0.19	20	0.6
TSS0603-470	47	40 @ 100 KHz	0.23	20	0.5
TSS0603-680	68	40 @ 100 KHz	0.29	15	0.4
TSS0603-101	100	40 @ 100 KHz	0.48	10	0.3
TSS0603-151	150	40 @ 100 KHz	0.59	9	0.26
TSS0603-221	220	40 @ 100 KHz	0.77	6	0.22
TSS0603-331	330	40 @ 100 KHz	1.4	5	0.20
TSS0603-471	470	40 @ 100 KHz	1.8	4	0.19
TSS0603-681	680	40 @ 100 KHz	2.2	3	0.18
TSS0603-102	1000	40 @ 100 KHz	3.4	2	0.15
TSS0603-152	1500	50 @ 100 KHz	4.2	2	0.12
TSS0603-222	2200	50 @ 100 KHz	8.5	2	0.10
TSS0603-332	3300	50 @ 100 KHz	11.0	1	0.08
TSS0603-472	4700	50 @ 100 KHz	13.9	1	0.06
TSS0603-682	6800	50 @ 100 KHz	25.0	1	0.04
TSS0603-103	10000	50 @ 100 KHz	32.8	0.8	0.02

1. Inductance tested at 100KHz, 0.1Vrms.
2. 30°C temperature rise.
3. Operating temperature range -40°C to +85°C.
4. Electrical specifications at 25°C.

Electrical Specification

Unit : (m/m)

Part number	L ± 20% (M) (μH)	DCR Max (Ohms)	SRF typ (MHz)	Isat2 (A)	Irms3 (A)
TSS1305-1R0	1	0.021	140	5.6	5.0
TSS1305-1R5	1.5	0.022	120	5.2	4.5
TSS1305-2R2	2.2	0.032	80	5.0	3.8
TSS1305-3R3	3.3	0.039	70	3.9	3.3
TSS1305-4R7	4.7	0.054	40	3.2	2.7
TSS1305-6R8	6.8	0.075	38	2.8	2.2
TSS1305-100	10	0.101	35	2.4	2.0
TSS1305-150	15	0.150	25	2.0	1.5
TSS1305-220	22	0.207	19	1.6	1.3
TSS1305-330	33	0.334	15	1.4	1.1
TSS1305-470	47	0.472	13	1.0	0.8

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

Electrical Specification

Unit :(m/m)

Part number	L±20%(M) (μH)	DCR Max (Ohms)	SRF typ (MHz)	Isat2 (A)	Irms3 (A)
TSS1807-100	10	0.040	30	8.0	3.9
TSS1807-150	15	0.048	20	7.0	3.4
TSS1807-220	22	0.059	18	6.0	3.1
TSS1807-330	33	0.075	14	5.0	2.8
TSS1807-470	47	0.097	10	4.0	2.4
TSS1807-680	68	0.138	9	3.0	2.0
TSS1807-101	100	0.207	7	2.4	1.7
TSS1807-151	150	0.293	6	2.1	1.3
TSS1807-221	220	0.470	5	1.9	1.1
TSS1807-331	330	0.780	4	1.1	0.86
TSS1807-471	470	1.080	3	1.1	0.73
TSS1807-681	680	1.400	2.5	0.96	0.64
TSS1807-102	1000	2.010	2.0	0.80	0.53

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