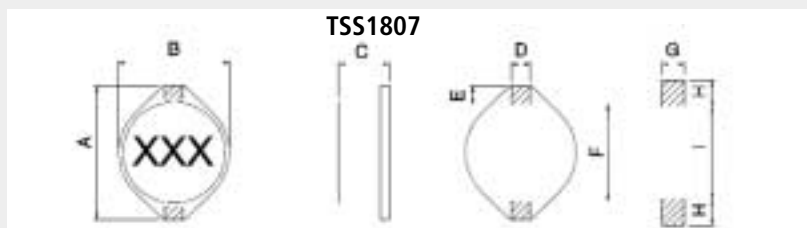
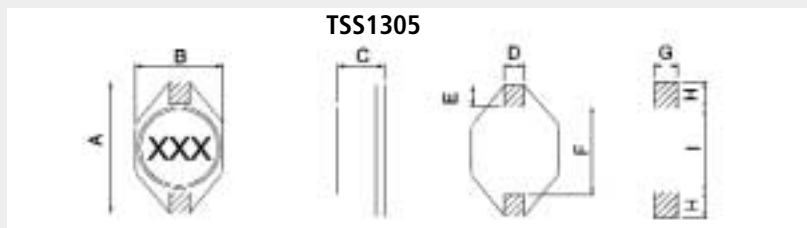
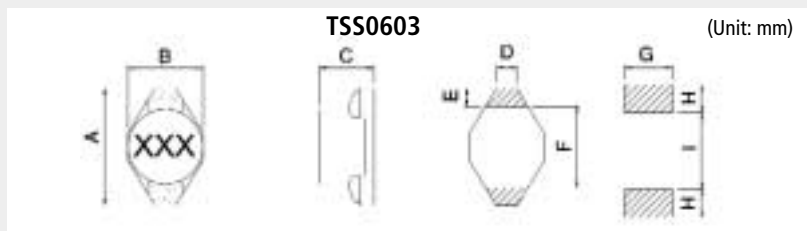




EXTERNAL DIMENSIONS



Features

- Low profile and shielded very effective in space-conscious applications.
- Low resistance and high energy storage.
- Suitable for lead free soldering.
- ROHS Compliant.

Applications

- Excellent as DC-DC converter used in notebooks computers, PDA and mobile handphones. Step-up or step-down converters, flash memory.

Solder Land Information

Type	A	B	C	D	E	F	G	H	I
TSS0603 ^{*1}	6.6max.	4.45max.	2.92max.	1.27	1.0	4.32	2.64	1.14	4.57
TSS1305 ^{*2}	12.95max.	9.4max.	5.08max.	2.54	2.54	7.62	2.79	2.92	7.37
TSS1807 ^{*3}	18.54max.	15.24max.	7.11max.	2.54	2.54	12.7	2.79	2.92	12.45

Test Equipment and Conditions

- Inductance is measured with HP-4284A LCR meter or equivalent.
- 1. Maximum allowable DC current which causes 25% inductance reduction of the initial value , or coil temperature to rise by 30°C, whichever is smaller. (Reference ambient temperature 20°C).
- 2. Inductance drops 10% typical at Isat level with temperature rise under 30°C in accordance with Irms measurement.
- 3. Inductance drops 15% typical at Isat level with temperature rise under 40°C in accordance with Irms measurement.
- Operating Temperature Range : -25°C to +85°C.

POWER INDUCTOR (SHIELDED)

POWER CHOKE - TSS0603/ TSS1305 SERIES

Specifications

Part Number	Inductance (μH)	Test Frequency (KHz)	DC Resistance (Ω) max.	S.R.F (MHz)	Rated DC Current (A) max.
TSS0603-1R0 □	1.0	100	0.052	250	3.00
TSS0603-1R5 □	1.5	100	0.059	125	2.80
TSS0603-2R2 □	2.2	100	0.065	120	1.80
TSS0603-3R3 □	3.3	100	0.072	120	1.60
TSS0603-4R7 □	4.7	100	0.078	105	1.40
TSS0603-6R8 □	6.8	100	0.085	50	1.20
TSS0603-100 □	10	100	0.098	38	1.00
TSS0603-150 □	15	100	0.117	33	0.80
TSS0603-220 □	22	100	0.221	25	0.70
TSS0603-330 □	33	100	0.247	20	0.60
TSS0603-470 □	47	100	0.349	20	0.50
TSS0603-680 □	68	100	0.552	15	0.40
TSS0603-101 □	100	100	0.785	10	0.30
TSS0603-151 □	150	100	1.180	9	0.26
TSS0603-221 □	220	100	1.640	6	0.22
TSS0603-331 □	330	100	2.470	5	0.20
TSS0603-471 □	470	100	3.700	4	0.19
TSS0603-681 □	680	100	5.700	3	0.18
TSS0603-102 □	1000	100	10.32	2	0.15

NOTE: □ Tolerance value: K = ±10%, M = ±20%, N = ±30%

Specifications

Part Number	Inductance (μH)	Test Frequency (KHz)	DC Resistance (Ω) max.	Isat (A) max.	Irms (A) max.
TSS1305-1R0 □	1.0	100	0.021	5.6	5.0
TSS1305-1R5 □	1.5	100	0.022	5.2	4.5
TSS1305-2R2 □	2.2	100	0.032	5.0	3.8
TSS1305-3R3 □	3.3	100	0.039	3.9	3.3
TSS1305-4R7 □	4.7	100	0.054	3.2	2.7
TSS1305-6R8 □	6.8	100	0.075	2.8	2.2
TSS1305-100 □	10	100	0.101	2.4	2.0
TSS1305-150 □	15	100	0.150	2.0	1.5
TSS1305-220 □	22	100	0.207	1.6	1.3
TSS1305-330 □	33	100	0.334	1.4	1.1
TSS1305-470 □	47	100	0.472	1.0	0.8
TSS1305-560 □	56	100	0.650	0.9	0.7
TSS1305-680 □	68	100	0.715	0.8	0.7

NOTE: □ Tolerance value: K = ±10%, M = ±20%, N = ±30%

POWER INDUCTOR (SHIELDED)

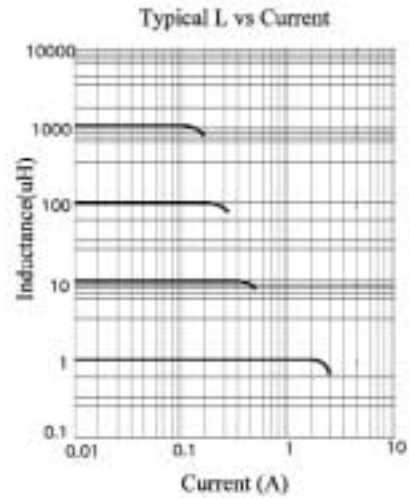
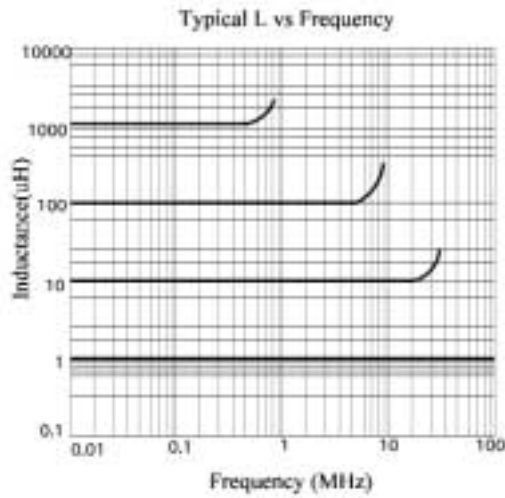
POWER CHOKE - TSS1807 SERIES

Specifications

Part Number	Inductance (μH)	Test Frequency (KHz)	DC Resistance (Ω) max.	Isat (A) max.	Irms (A) max.
TSS1807-100 □	10	100	0.040	8.0	3.9
TSS1807-150 □	15	100	0.048	7.0	3.4
TSS1807-220 □	22	100	0.059	6.0	3.1
TSS1807-330 □	33	100	0.075	5.0	2.8
TSS1807-470 □	47	100	0.097	4.0	2.4
TSS1807-680 □	68	100	0.138	3.0	2.0
TSS1807-101 □	100	100	0.207	2.4	1.7
TSS1807-151 □	150	100	0.293	2.1	1.3
TSS1807-221 □	220	100	0.470	1.9	1.1
TSS1807-331 □	330	100	0.780	1.1	0.86
TSS1807-471 □	470	100	1.080	1.1	0.73
TSS1807-681 □	680	100	1.400	0.96	0.64
TSS1807-102 □	1000	100	2.010	0.80	0.53

NOTE: □ Tolerance value: K = $\pm 10\%$, M = $\pm 20\%$, N = $\pm 30\%$

TSS0603 Series



TSS1305 Series

