SCHOTT CORPORATION

Low Profile Inductors

- Based on EFD core style with thru-hole or surface mount options.
- Extremely low profile package.
- Extremely low DCR coil design used for gapped and ungapped versions.
- 130°C temperature rating (UL class B).
- Packaging for options include tape-and-reel, tubes or trays.
- Custom inductance values (and transformer designs) available.

Specifications for Ungapped Inductance

Schott P/N	Coil Number	Ungapped Inductance µH (±30%)	Pins	DCR Max Ohms	Temp Rise Current Amps
24494	1	100	(1,2,3,4-5,6,7)	0.02	4.36
24495	2	150	(1,2,3,4-5,6,7)	0.03	3.85
24496	3	220	(1,2,3,4-5,6,7)	0.03	3.54
24497	4	330	(1,2,3,4-5,6,7)	0.04	3.16
24498	5	470	(1,2,3,4-5,6,7)	0.05	2.92
24499	6	680	(1,2,3,4-5,6,7)	0.06	2.67
24500	7	1000	(1,2,3,4-5,6,7,8)	0.09	2.10
24501	8	1500	(1,2,3,4-5,6,7,8)	0.17	1.53
24502	9	2200	(1,2,3,4-5,6,7,8)	0.26	1.25
24503	10	3300	(1,2-5)	0.45	0.94
24504	11	4700	(1,2-5)	0.66	0.78
24505	12	6800	(1,2-5)	0.66	0.78
24506	13	10000	(1,2-5,6)	1.08	0.61
24507	14	15000	(1,2-5,6)	1.32	0.55
24508	15	22000	(1,2-5,6)	2.43	0.41
24509	16	33000	(1,2-5,6)	3.54	0.34
24510	17	47000	(1,2-5,6,7)	5.60	0.27
24511	18	68000	(1,2-5,6,7)	7.00	0.24

Specifications for Gapped Inductance

Schott P/N	Coil Number	Gapped Inductance µH (±10%)	Saturating Current Amps	Pins	DCR Max Ohms	Temp Rise Current Amps
24512	1	10	5.58	(1,2,3,4-5,6,7)	0.02	4.36
24513	2	15	4.65	(1,2,3,4-5,6,7)	0.03	3.85
24514	3	22	3.80	(1,2,3,4-5,6,7)	0.03	3.54
24515	4	33	3.10	(1,2,3,4-5,6,7)	0.04	3.16
24516	5	47	2.57	(1,2,3,4-5,6,7)	0.05	2.92
24517	6	68	2.12	(1,2,3,4-5,6,7)	0.06	2.67
24518	7	100	1.77	(1,2,3,4-5,6,7,8)	0.09	2.10
24519	8	150	1.43	(1,2,3,4-5,6,7,8)	0.17	1.53
24520	9	220	1.18	(1,2,3,4-5,6,7,8)	0.26	1.25
24521	10	330	0.97	(1,2-5)	0.45	0.94
24522	11	470	0.81	(1,2-5)	0.66	0.78
24523	12	680	0.68	(1,2-5)	0.66	0.78
24524	13	1000	0.56	(1,2-5,6)	1.08	0.61
24525	14	1500	0.45	(1,2-5,6)	1.32	0.55
24526	15	2200	0.37	(1,2-5,6)	2.43	0.41
24527	16	3300	0.31	(1,2-5,6)	3.54	0.34
24528	17	4700	0.26	(1,2-5,6,7)	5.60	0.27
24529	18	6800	0.21	(1,2-5,6,7)	7.00	0.24

Parts availability subject to Schott manufacturing schedules and leadtimes. Not all parts available from stock. Please contact us for more details and availability. The Adobe Acrobat Reader is required to view these linked documents.

Frequency	Approx. Po (W)
100 kHz	17
300 kHz	30
500 kHz	37
1 MHz	35

Electrical Specifications Test Criteria

1. Saturating current (Isat) is the approximate DC current which causes the gapped inductance to drop 20%.
2. Temperature rise current represents the current which causes approximately 30°C rise in the unit based on an ambient temperature of 25°C and copper losses only.
3. Inductance is tested at 0.1 Vms, 10kHz, 25°C.
4. Pin numbers with a comma between them are to be shorted. (Example: Coil #1 should have pins 1,2,3 & 4 shorted together and pins 5,6 & 7 shorted together on the PC board.)
5. For transformer applications (single-ended forward converter):

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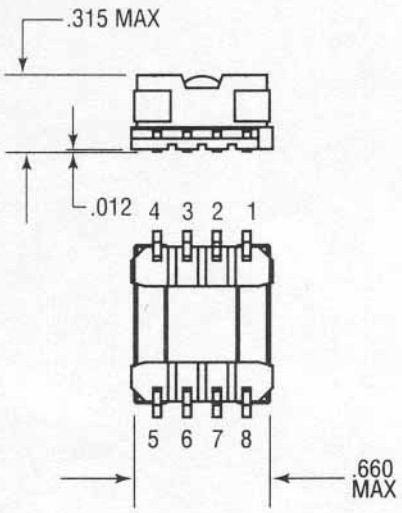
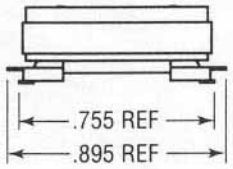
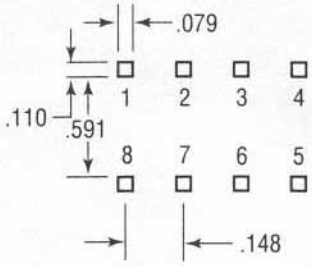
SURFACE MOUNT SERIES



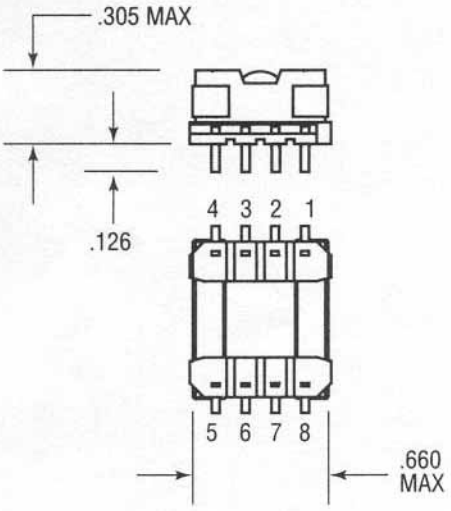


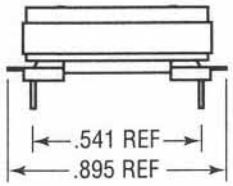


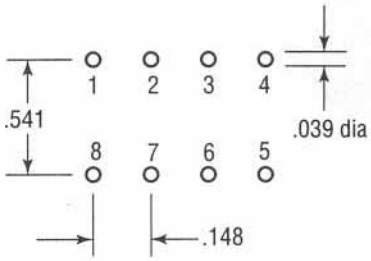
RECOMMENDED LAND PATTERN

Note: Schott part numbers shown on the opposite side are for surface mount versions. Contact Schott sales office for thru-hole part numbers.

THRU-HOLE SERIES







RECOMMENDED PIN LAYOUT

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