CSC
Chang Sung Corporation

Nominal Inductance Table (A_L Value)

(nH/N²)

Permeability / Part No.	26μ 026	60μ 060	75μ 075	90μ 090	125μ 125	147μ 147	160μ 160	173μ 173	200μ 200
C□ 035 □□□	-	13	16	19	26	31	33	36	42
C□ 039 □□□	-	17	21	25	35	41	45	48	56
C□ 046 □□□	-	20	25	30	42	49	53	57	67
C□ 063 □□□	10	24	30	36	50	59	64	69	80
C□ 066 □□□	11	26	32	39	54	64	69	75	86
C□ 067 □□□	21	50	62	74	103	122	132	144	165
C□ 068 □□□	14	33	42	50	70	81	89	95	112
C□ 078 □□□	11	25	31	37	52	62	66	73	83
C□ 096 □□□	11	25	32	38	53	63	68	74	84
C□ 097 □□□	14	32	40	48	66	78	84	92	105
C□ 102 □□□	14	32	40	48	66	78	84	92	105
C□ 112 □□□	11	26	32	38	53	63	68	74	85
C□ 127 □□□	12	27	34	40	56	67	72	79	90
C□ 166 □□□	15	35	43	52	72	88	92	104	115
C□ 172 □□□	19	43	53	64	89	105	114	123	142
C□ 203 □□□	14	32	41	49	68	81	87	96	109
C□ 229 □□□	19	43	54	65	90	106	115	124	144
C□ 234 □□□	22	51	63	76	105	124	135	146	169
C□ 270 □□□	32	75	94	113	157	185	201	217	251
C□ 330 □□□	28	61	76	91	127	150	163	176	-
C□ 343 □□□	16	38	47	57	79	93	101	109	-
C□ 358 □□□	24	56	70	84	117	138	150	162	-
C□ 400 □□□	35	81	101	121	168	198	215	233	-
C□ 467 □□□	59	135	169	202	281	330	360	-	-
C□ 468 □□□	37	86	107	128	178	210	228	-	-
C□ 508 □□□	32	73	91	109	152	179	195	-	-
C□ 571 □□□	60	138	172	206	287	306	333	-	-
C□ 572 □□□	33	75	94	112	156	185	200	-	-
C□ 610 □□□	83	192	240	288	400	-	-	-	-
C□ 740 □□□	89	206	257	309	429	-	-	-	-
C□ 777 □□□	30	68	85	102	142	-	-	-	-
C□ 778 □□□	37	85	107	128	178				

※ example) A_L value of CM270125 is 157(nH/N²)

Nominal Inductances of cores are numerical value which can calculate Inductance at give number of turns. A_L value means the inductance (nanohenries) of a core for 1turn winding. It is measured at peak AC flux density of 10 gauss and frequency of 10kHz.
The values of Nominal inductance table are determined by dimension & permeability of core.
For example A_L values of CM270125, CH270125 and CS270125 are all the same 157(nH/N²). Following equation is much convenient to calculate inductance at number of turns.

$$L_N = A_L \times N^2 \times 10^{-3} (\mu H)$$

A_L Value Tolerance

Core Size	Tolerance of A_L value			
	Sendust	MPP	High Flux	Mega Flux
OD 035 ~ OD 046	±15%	±12%		NA
OD 063 ~ OD 112	±12%	±8%		±8%
OD 127 ~ OD 777	±8%			
E core	±12%	NA	NA	±12%