



Karson Electronics Co., Ltd.

Sendust Toroidal Core

◆ Feature

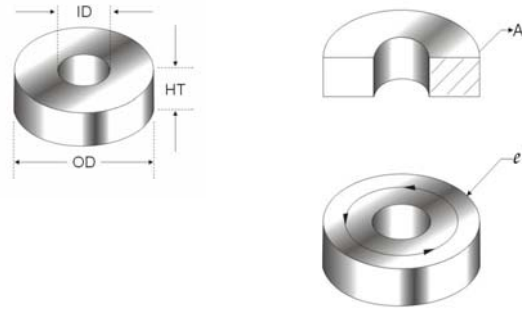
1. High saturation flux density to 10000 gauss
2. Excellent DC bias characteristic
3. Low core loss (~300mW/cm³ @ 50KHz/1000gauss)

◆ Application

1. Switch mode power supply
2. Power factor correction (PFC) chokes for general applications
3. DC/DC converter chokes
4. Pulse and flyback transformers

◆ Configuration

- I 106 - SD 060 (1) Core Type (T: toroidal core)
 (1) (2) (3) (4) (2) Size designation (O.D. size in inch)
 (3) Material Code
 (4) Permeability Code



◆ Dimension & Electrical Specification

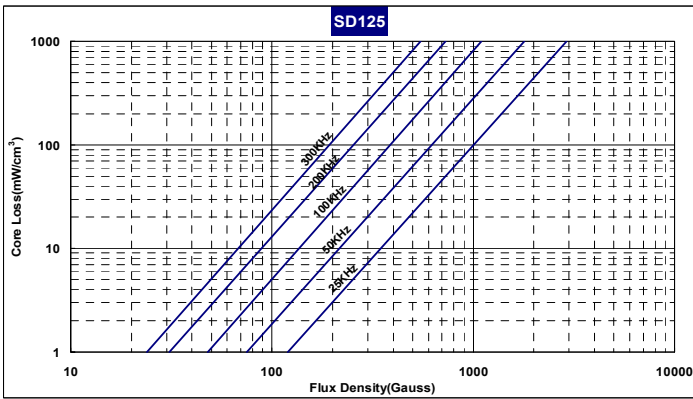
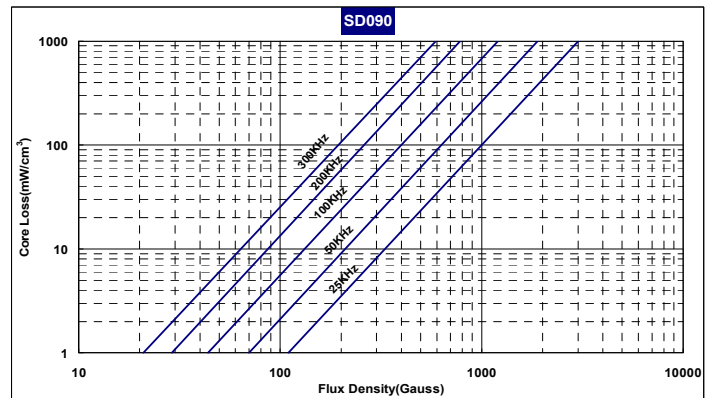
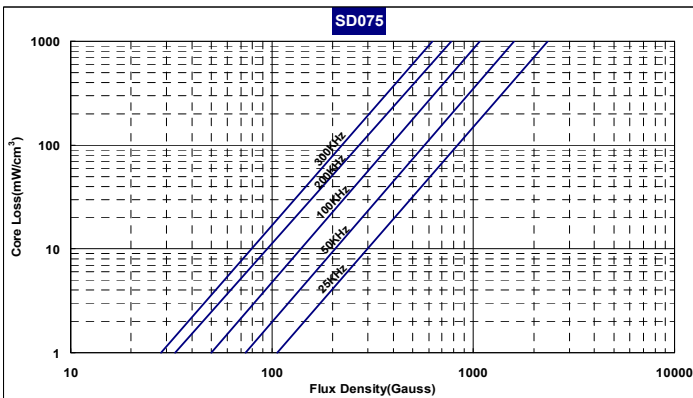
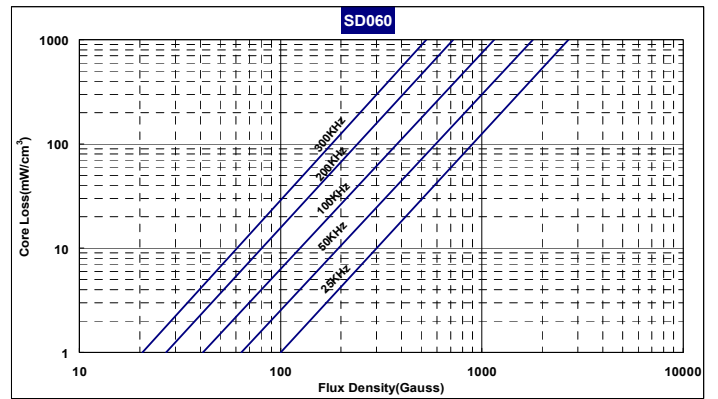
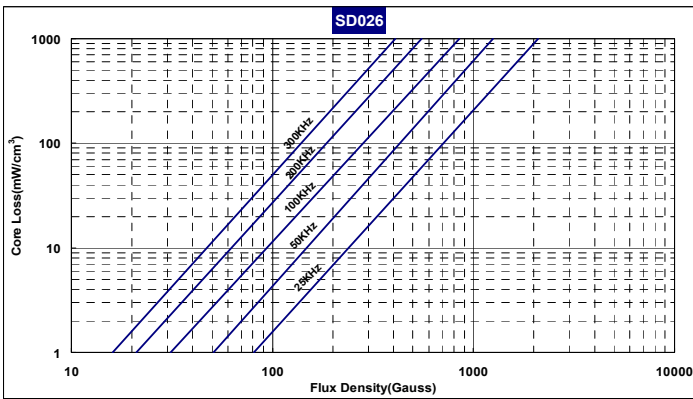
PART NO.	O.D. (Max.)		I.D. (Min.)		HT (Max.)		AL nH/N2	L cm	A cm ²	V cm ³	Dongbu P/N	Mag-Inc P/N	Arnold P/N	CSC P/N
	inch	mm	inch	mm	inch	mm								
T031-SD026							11				S031011A	NA	MS-031026-8	NA
T031-SD060							25				S031025A	77031	MS-031060-8	CS078060
T031-SD075	0.335	8.51	0.135	3.43	0.150	3.81	31	1.787	0.0615	0.1099	S031031A	77835	MS-031075-8	CS078075
T031-SD090							37				S031037A	77834	MS-031090-8	CS078090
T031-SD125							52				S031052A	77030	MS-031125-8	CS078125
T038-SD026							14				S038014A	NA	MS-038026-8	NA
T038-SD060							32				S038032A	77291	MS-038060-8	CS097060
T038-SD075	0.405	10.29	0.168	4.27	0.180	4.57	40	2.18	0.0945	0.2060	S038040A	77295	MS-038075-8	CS097075
T038-SD090							48				S038048A	77294	MS-038090-8	CS097090
T038-SD125							66				S038066A	77290	MS-038125-8	CS097125
T038-SD026A							11				S038011A	NA	MS-039026-8	NA
T038-SD060A							25				S038025A	77281	MS-039060-8	CS096060
T038-SD075A	0.405	10.29	0.168	4.27	0.150	3.81	32	2.18	0.0752	0.1639	S038032A	77885	MS-039075-8	CS096075
T038-SD090A							38				S038038A	77884	MS-039090-8	CS096090
T038-SD125A							53				S038053A	77280	MS-039125-8	CS096125
T040-SD026							14				S040014A	NA	MS-040026-2	NA
T040-SD060							32				S040032A	77041	MS-040060-2	CS102060
T040-SD075	0.425	10.80	0.180	4.57	0.180	4.57	40	2.38	0.1000	0.2380	S040040A	77845	MS-040075-2	CS102075
T040-SD090							48				S040048A	77844	MS-040090-2	CS102090
T040-SD125							66				S040066A	77040	MS-040125-2	CS102125
T044-SD026							11				S044011A	NA	MS-044026-2	CS112026
T044-SD060							26				S044026A	77131	MS-044060-2	CS112060
T044-SD075	0.468	11.90	0.232	5.89	0.186	4.72	32	2.69	0.0906	0.2437	S044032A	77335	MS-044075-2	CS112075
T044-SD090							38				S044038A	77334	MS-044090-2	CS112090
T044-SD125							53				S044053A	77130	MS-044125-2	CS112125
T050-SD026							12				S050012A	NA	MS-050026-2	CS127026
T050-SD060							27				S050027A	77051	MS-050060-2	CS127060
T050-SD075	0.530	13.46	0.275	6.99	0.217	5.51	34	3.12	0.1140	0.3557	S050034A	77055	MS-050075-2	CS127075
T050-SD090							40				S050040A	77054	MS-050090-2	CS127090
T050-SD125							56				S050056A	77050	MS-050125-2	CS127125
T065-SD026							15				S065015A	NA	MS-065026-2	CS166026
T065-SD060							36				S065035A	77121	MS-065060-2	CS166060
T065-SD075	0.685	17.40	0.375	9.53	0.280	7.11	43	4.11	0.1920	0.7891	S065043A	77225	MS-065075-2	CS166075
T065-SD090							52				S065052A	77224	MS-065090-2	CS166090
T065-SD125							72				S065072A	77120	MS-065125-2	CS166125
T068-SD026							19				S068019A	NA	MS-068026-2	CS172026
T068-SD060							43				S068043A	77381	MS-068060-2	CS172060
T068-SD075	0.710	18.03	0.355	9.02	0.280	7.11	53	4.14	0.2320	0.9605	S068053A	77385	MS-068075-2	CS172075
T068-SD090							64				S068064A	77384	MS-068090-2	CS172090
T068-SD125							89				S068089A	77380	MS-068125-2	CS172125
T080-SD026							14				S080014A	NA	MS-080026-2	CS203026
T080-SD060							32				S080032A	77848	MS-080060-2	CS203060
T080-SD075	0.830	21.10	0.475	12.07	0.280	7.11	41	5.09	0.2260	1.1510	S080041A	77211	MS-080075-2	CS203075
T080-SD090							49				S080049A	77210	MS-080090-2	CS203090
T080-SD125							68				S080068A	77206	MS-080125-2	CS203125
T090-SD026							19				S090019A	77312	MS-090026-2	CS229026
T090-SD060							43				S090043A	77059	MS-090060-2	CS229060
T090-SD075	0.930	23.62	0.527	13.39	0.330	8.38	54	5.67	0.3310	1.8871	S090054A	77315	MS-090075-2	CS229075
T090-SD090							65				S090065A	77314	MS-090090-2	CS229090
T090-SD125							90				S090090A	77310	MS-090125-2	CS229125
T092-SD026							22				S092022A	77352	MS-092026-2	CS234026
T092-SD060							51				S092051A	77351	MS-092060-2	CS234060
T092-SD075	0.956	24.30	0.542	13.77	0.382	9.70	63	5.88	0.3880	2.2814	S092063A	77355	MS-092075-2	CS234075
T092-SD090							76				S092076A	77354	MS-092090-2	CS234090
T092-SD125							105				S092105A	77350	MS-092125-2	CS234125

◆ Dimension & Electrical Specification

PART NO.	O.D. (Max.)		I.D. (Min.)		HT (Max.)		AL	L	A	V	Dongbu P/N	Mag-Inc P/N	Arnold P/N	CSC P/N
	inch	mm	inch	mm	inch	mm	nH/N ²	cm	cm ²	cm ³				
T106-SD026	1.090	27.70	0.555	14.10	0.472	11.99	32	6.35	0.6540	4.1540	S106032A	77932	MS-106026-2	CS270026
T106-SD060							75				S106075A	77894	MS-106060-2	CS270060
T106-SD075							94				S106094A	77935	MS-106075-2	CS270075
T106-SD090							113				S106113A	77934	MS-106090-2	CS270090
T106-SD125							157				S106157A	77930	MS-106125-2	CS270125
T106-SD026A	1.090	27.70	0.555	14.10	0.372	9.45	25	6.35	0.4970	3.1600	NA	NA	MS-107026-2	CS270026E8
T106-SD060A							59				NA	NA	MS-107060-2	CS270060E8
T106-SD075A							73				NA	NA	MS-107075-2	CS270075E8
T106-SD090A							88				NA	NA	MS-107090-2	CS270090E8
T106-SD125A							123				NA	NA	MS-107125-2	CS270125E8
T106-SD026B	1.090	27.70	0.555	14.10	0.591	15.00	40	6.35	0.8190	5.2000	NA	NA	MS-108026-2	CS270026E14
T106-SD060B							94				NA	NA	MS-108060-2	CS270060E14
T106-SD075B							117				NA	NA	MS-108075-2	CS270075E14
T106-SD090B							141				NA	NA	MS-108090-2	CS270090E14
T106-SD125B							195				NA	NA	MS-108125-2	CS270125E14
T106-SD026C	1.090	27.70	0.555	14.10	0.748	19.00	52	6.35	1.0100	6.4300	NA	NA	MS-109026-2	CS270026E18
T106-SD060C							120				S106115A	NA	MS-109060-2	CS270060E18
T106-SD075C							150				NA	NA	MS-109075-2	CS270075E18
T106-SD090C							180				NA	NA	MS-109090-2	CS270090E18
T106-SD125C							250				S106251A	NA	MS-109125-2	CS270125E18
T130-SD026	1.332	33.83	0.760	19.30	0.457	11.61	28	8.15	0.6720	5.4768	S130028A	77550	MS-130026-2	CS330026
T130-SD060							61				S130061A	77071	MS-130060-2	CS330060
T130-SD075							76				S130076A	77553	MS-130075-2	CS330075
T130-SD090							91				S130091A	77552	MS-130090-2	CS330090
T130-SD125							127				S130127A	77548	MS-130125-2	CS330125
T130-SD026A	1.332	33.83	0.760	19.30	0.382	9.70	22	8.15	0.5511	4.4902	NA	NA	MS-131026-2	CS330026E8
T130-SD060A							51				NA	NA	MS-131060-2	CS330060E8
T130-SD075A							63				NA	NA	MS-131075-2	CS330075E8
T130-SD090A							76				NA	NA	MS-131090-2	CS330090E8
T130-SD125A							109				NA	NA	MS-131125-2	CS330125E8
T130-SD026B	1.332	33.83	0.760	19.30	0.591	15.00	34	8.15	0.8740	7.1200	NA	NA	MS-133026-2	CS330026E14
T130-SD060B							80				NA	NA	MS-133060-2	CS330060E14
T130-SD075B							100				NA	NA	MS-133075-2	CS330075E14
T130-SD090B							120				NA	NA	MS-133090-2	CS330090E14
T130-SD125B							166				NA	NA	MS-133125-2	CS330125E14
T130-SD026C	1.332	33.83	0.760	19.30	0.748	19.00	44	8.15	1.1024	8.9812	NA	NA	MS-134026-2	CS330026E18
T130-SD060C							102				NA	NA	MS-134060-2	CS330060E18
T130-SD075C							127				NA	NA	MS-134075-2	CS330075E18
T130-SD090C							153				NA	NA	MS-134090-2	CS330090E18
T130-SD125C							214				NA	NA	MS-134125-2	CS330125E18
T135-SD026	1.385	35.20	0.888	22.60	0.387	9.83	16	8.95	0.4540	4.0633	S135016A	77587	MS-135026-2	CS343026
T135-SD060							38				S135038A	77586	MS-135060-2	CS343060
T135-SD075							47				S135047A	77590	MS-135075-2	CS343075
T135-SD090							57				S135057A	77589	MS-135090-2	CS343090
T135-SD125							79				S135079A	77585	MS-135125-2	CS343125
T141-SD026	1.445	36.70	0.848	21.50	0.444	11.28	24	8.98	0.6780	6.0884	S141024A	77326	MS-141026-2	CS358026
T141-SD060							56				S141056A	77076	MS-141060-2	CS358060
T141-SD075							70				S141070A	77329	MS-141075-2	CS358075
T141-SD090							84				S141084A	77328	MS-141090-2	CS358090
T141-SD125							117				S141117A	77324	MS-141125-2	CS358125
T157-SD026	1.602	40.70	0.918	23.30	0.605	15.37	35	9.84	1.0720	10.5485	S157035A	77256	MS-157026-2	CS400026
T157-SD060							81				S157081A	77083	MS-157060-2	CS400060
T157-SD075							101				S157101A	77259	MS-157075-2	CS400075
T157-SD090							121				S157121A	77258	MS-157090-2	CS400090
T157-SD125							168				S157168A	77254	MS-157125-2	CS400125
T184-SD026	1.875	47.60	0.918	23.30	0.745	18.92	59	10.74	1.9900	21.3730	S184059A	77440	MS-184026-2	CS467026
T184-SD060							135				S184135A	77439	MS-184060-2	CS467060
T184-SD075							169				S184169A	77443	MS-184075-2	CS467075
T184-SD090							202				S184202A	77442	MS-184090-2	CS467090
T184-SD125							281				S184281A	77438	MS-184125-2	CS467125
T185-SD026	1.875	47.60	1.098	27.90	0.635	16.13	37	11.63	1.3400	15.5840	S184037A	77091	MS-185026-2	CS468026
T185-SD060							86				S184086A	77090	MS-185060-2	CS468060
T185-SD075							107				S184107A	77094	MS-185075-2	CS468075
T185-SD090							128				S184128A	77093	MS-185090-2	CS468090
T185-SD125							178				S184178A	77089	MS-185125-2	CS468125
T200-SD026	2.035	51.70	1.218	30.90	0.565	14.35	32	12.73	1.2510	15.9290	S200032A	77717	MS-200026-2	CS508026
T200-SD060							73				S200073A	77716	MS-200060-2	CS508060
T200-SD075							91				S200091A	77720	MS-200075-2	CS508075
T200-SD090							109				S200109A	77719	MS-200090-2	CS508090
T200-SD125							152				S200152A	77715	MS-200125-2	CS508125
T225-SD026	2.285	58.00	1.368	34.70	0.585	14.86	33	14.3	1.4440	20.6500	S225033A	77111	MS-225026-2	CS572026
T225-SD060							75				S225075A	77110	MS-225060-2	CS572060
T225-SD075							94				S225094A	77214	MS-225075-2	CS572075
T225-SD090							112				S225112A	77213	MS-225090-2	CS572090
T225-SD125							156				S225156A	77109	MS-225125-2	CS572125
T226-SD026	2.285	58.00	1.007	25.60	0.635	16.10	60	12.5	2.2900	28.6000	S225060A	77191	MS-226026-2	CS571026
T226-SD060							138				S225138A	77192	MS-226060-2	CS571060
T226-SD075							172				S225172A	77193	MS-226075-2	CS571075
T226-SD090							207				S225207A	77194	MS-226090-2	CS571090
T226-SD125							287				S225287A	77195	MS-226125-2	CS571125

* AL tolerance:
 ±12% for size smaller than T044. (Including T044)
 ± 8% for size larger than T050. (Including T050)

◆ Core Loss



◆ Permeability V.S. Frequency & DC Bias

