



Karson Electronics Co., Ltd.

New Alloy Toroidal Core

◆ Feature

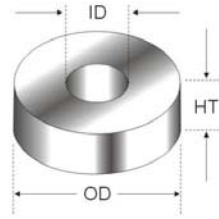
- 1.High saturation flux density to 15000 gauss
- 2.Excellent DC bias characteristic
- 3.Low core loss (~300mW/cm³ @ 50KHz/1000gauss)

◆ Application

- 1.Power factor correction(PFC) chokes
- 2.Buck/boost inductors for high power supply systems
- 3.Chokes for inverters and reactors for electric vehicles

◆ Configuration

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



◆ Dimension & Electrical Specification

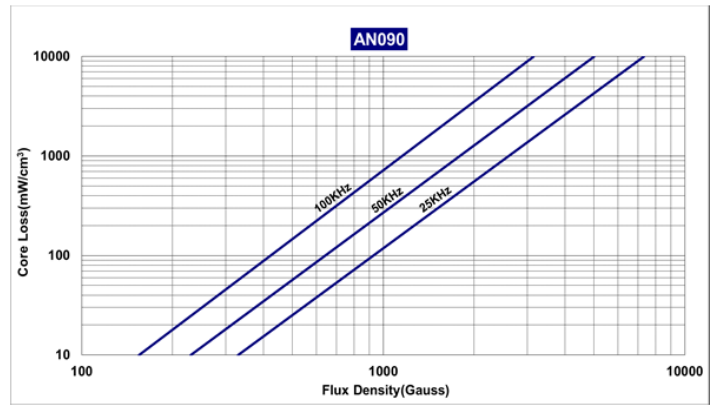
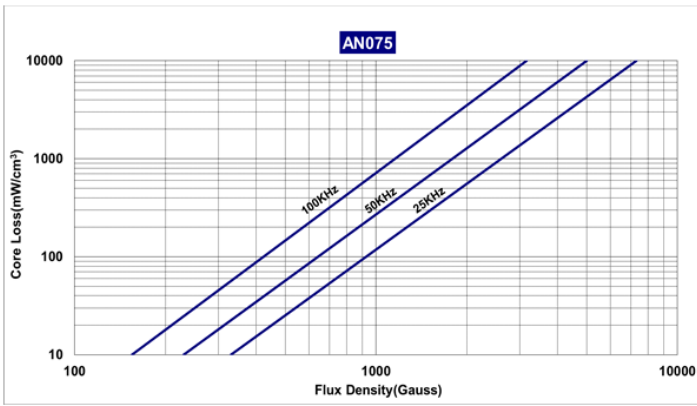
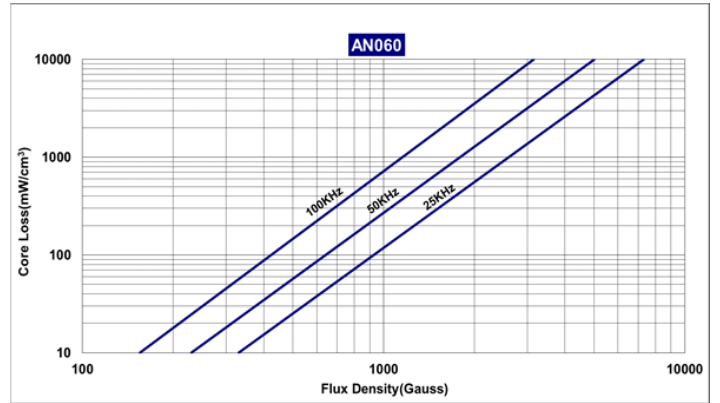
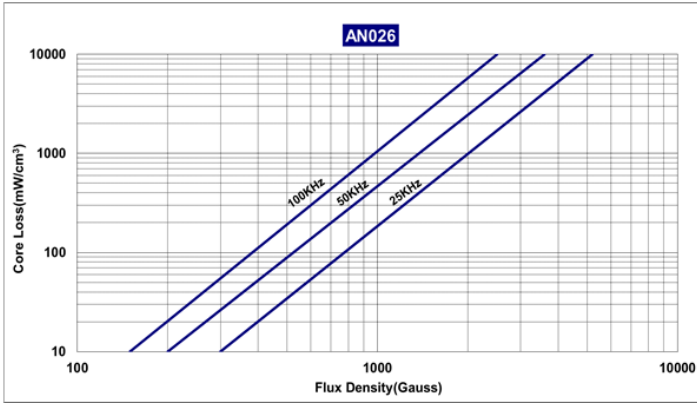
PART NO.	O.D. (Max.)		I.D. (Min.)		HT (Max.)		AL	L	A	V	AMO APH	CSC CH Hihg Flux
	inch	mm	inch	mm	inch	mm	nH/N2	cm	cm ²	cm ³		
T031-AN026	0.335	8.51	0.135	3.43	0.150	3.81	11	1.787	0.0615	0.1099	NA	CH078026
T031-AN060							25				NA	CH078060
T031-AN075							31				NA	CH078075
T031-AN090							37				NA	CH078090
T038-AN026	0.405	10.29	0.168	4.27	0.180	4.57	14	2.18	0.0945	0.2060	NA	CH097026
T038-AN060							32				NA	CH097060
T038-AN075							40				NA	CH097075
T038-AN090							48				NA	CH097090
T038-AN026A	0.405	10.29	0.168	4.27	0.150	3.81	11	2.18	0.0752	0.1639	NA	CH096026
T038-AN060A							25				NA	CH096060
T038-AN075A							32				NA	CH096075
T038-AN090A							38				NA	CH096090
T040-AN026	0.425	10.80	0.180	4.57	0.180	4.57	14	2.38	0.1000	0.2380	NA	CH102026
T040-AN060							32				NA	CH102060
T040-AN075							40				NA	CH102075
T040-AN090							48				NA	CH102090
T044-AN026	0.468	11.90	0.232	5.89	0.186	4.72	11	2.69	0.0906	0.2437	NA	CH112026
T044-AN060							26				NA	CH112060
T044-AN075							32				NA	CH112075
T044-AN090							38				NA	CH112090
T050-AN026	0.530	13.46	0.275	6.99	0.217	5.51	12	3.12	0.1140	0.3557	APH13P26	CH127026
T050-AN060							27				APH13P60	CH127060
T050-AN075							34				APH13P75	CH127075
T050-AN090							40				APH13P90	CH127090
T065-AN026	0.685	17.40	0.375	9.53	0.280	7.11	15	4.11	0.1920	0.7891	APH17P26	CH166026
T065-AN060							36				APH17P60	CH166060
T065-AN075							43				APH17P75	CH166075
T065-AN090							52				APH17P90	CH166090
T068-AN026	0.710	18.03	0.355	9.02	0.280	7.11	19	4.14	0.2320	0.9605	APH18P26	CH172026
T068-AN060							43				APH18P60	CH172060
T068-AN075							53				APH18P75	CH172075
T068-AN090							64				APH18P90	CH172090
T080-AN026	0.830	21.10	0.475	12.07	0.280	7.11	14	5.09	0.2260	1.1510	APH20P26	CH203026
T080-AN060							32				APH20P60	CH203060
T080-AN075							41				APH20P75	CH203075
T080-AN090							49				APH20P90	CH203090
T090-AN026	0.930	23.62	0.527	13.39	0.330	8.38	19	5.67	0.3310	1.8871	APH23P26	CH229026
T090-AN060							43				APH23P60	CH229060
T090-AN075							54				APH23P75	CH229075
T090-AN090							65				APH23P90	CH229090

◆ Dimension & Electrical Specification

PART NO.	O.D (Max.)		I.D. (Min.)		HT (Max.)		AL	L	A	V	AMO APH	CSC CH Hing Flux
	inch	mm	inch	mm	inch	mm	nH/N ²	cm	cm ²	cm ³		
T092-AN026	0.956	24.30	0.542	13.77	0.382	9.70	22	5.88	0.3880	2.2814	APH24P26	CH234026
T092-AN060							51				APH24P60	CH234060
T092-AN075							63				APH24P75	CH234075
T092-AN090							76				APH24P90	CH234090
T106-AN026	1.090	27.70	0.555	14.10	0.472	11.99	32	6.35	0.6540	4.1540	APH27P26	CH270026
T106-AN060							75				APH27P60	CH270060
T106-AN075							94				APH27P75	CH270075
T106-AN090							113				APH27P90	CH270090
T106-AN026A	1.090	27.70	0.555	14.10	0.372	9.45	25	6.35	0.4970	3.1600	NA	CH270026E8
T106-AN060A							59				NA	CH270060E8
T106-AN075A							73				NA	CH270075E8
T106-AN090A							88				NA	CH270090E8
T106-AN026B	1.090	27.70	0.555	14.10	0.591	15.00	40	6.35	0.8190	5.2000	NA	CH270026E14
T106-AN060B							94				NA	CH270060E14
T106-AN075B							117				NA	CH270075E14
T106-AN090B							141				NA	CH270090E14
T106-AN026C	1.090	27.70	0.555	14.10	0.748	19.00	52	6.35	1.0100	6.4300	NA	CH270026E18
T106-AN060C							120				NA	CH270060E18
T106-AN075C							150				NA	CH270075E18
T106-AN090C							180				NA	CH270090E18
T130-AN026	1.332	33.83	0.760	19.30	0.457	11.61	28	8.15	0.6720	5.4768	APH33P26	CH330026
T130-AN060							61				APH33P60	CH330060
T130-AN075							76				APH33P75	CH330075
T130-AN090							91				APH33P90	CH330090
T130-AN026A	1.332	33.83	0.760	19.30	0.382	9.70	22	8.15	0.5511	4.4902	NA	CH330026E8
T130-AN060A							51				NA	CH330060E8
T130-AN075A							63				NA	CH330075E8
T130-AN090A							76				NA	CH330090E8
T130-AN026B	1.332	33.83	0.760	19.30	0.591	15.00	34	8.15	0.8740	7.1200	NA	CH330026E14
T130-AN060B							80				NA	CH330060E14
T130-AN075B							100				NA	CH330075E14
T130-AN090B							120				NA	CH330090E14
T130-AN026C	1.332	33.83	0.760	19.30	0.748	19.00	44	8.15	1.1024	8.9812	NA	CH330026E18
T130-AN060C							102				NA	CH330060E18
T130-AN075C							127				NA	CH330075E18
T130-AN090C							153				NA	CH330090E18
T135-AN026	1.385	35.20	0.888	22.60	0.387	9.83	16	8.95	0.4540	4.0633	NA	CH343026
T135-AN060							38				NA	CH343060
T135-AN075							47				NA	CH343075
T135-AN090							57				NA	CH343090
T141-AN026	1.445	36.70	0.848	21.50	0.444	11.28	24	8.98	0.6780	6.0884	APH36P26	CH358026
T141-AN060							56				APH36P60	CH358060
T141-AN075							70				APH36P75	CH358075
T141-AN090							84				APH36P90	CH358090
T157-AN026	1.602	40.70	0.918	23.30	0.605	15.37	35	9.84	1.0720	10.5485	APH40P26	CH400026
T157-AN060							81				APH40P60	CH400060
T157-AN075							101				APH40P75	CH400075
T157-AN090							121				APH40P90	CH400090
T184-AN026	1.875	47.60	0.918	23.30	0.745	18.92	59	10.74	1.9900	21.3730	APH46P26	CH467026
T184-AN060							135				APH46P60	CH467060
T184-AN075							169				APH46P75	CH467075
T184-AN090							202				APH46P90	CH467090
T185-AN026	1.875	47.60	1.098	27.90	0.635	16.13	37	11.63	1.3400	15.5840	APH47P26	CH468026
T185-AN060							86				APH47P60	CH468060
T185-AN075							107				APH47P75	CH468075
T185-AN090							128				APH47P90	CH468090
T200-AN026	2.035	51.70	1.218	30.90	0.565	14.35	32	12.73	1.2510	15.9290	APH50P26	CH508026
T200-AN060							73				APH50P60	CH508060
T200-AN075							91				APH50P75	CH508075
T200-AN090							109				APH50P90	CH508090
T225-AN026	2.285	58.00	1.368	34.70	0.585	14.86	33	14.3	1.4440	20.6500	NA	CH572026
T225-AN060							75				NA	CH572060
T225-AN075							94				NA	CH572075
T225-AN090							112				NA	CH572090
T226-AN026	2.285	58.00	1.007	25.60	0.635	16.10	60	12.5	2.2900	28.6000	APH57P26	CH571026
T226-AN060							138				APH57P60	CH571060
T226-AN075							172				APH57P75	CH571075
T226-AN090							207				APH57P90	CH571090

* AL tolerance = ± 8%

◆ Core Loss



◆ Permeability V.S. Frequency & DC Bias

