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Iron-based Amorphous Ribbon

Amorphous alloy is a new soft magnetic material. It is produced through the advanced technology of rapid solidification of molten metal at a cooling rate of about a million °C/sec. During this process the metal is rapidly quenched as a form of ribbon with 25~35 µm thickness, and the micro-structure of the alloy is the amorphous due to the high quenching rate.

Iron-based amorphous ribbon has many advantages, such as high permeability, high saturate induction, high electrical resistivity, high density, low core loss and good stability. It can replace the materials of silicon steel, permalloy and ferrite. It is widely used in electronics products that high accuracy and good stability are the most required.



Application

- Inverter reactor, transformer core.
- Wide constant permeable inductor core, PFC inductor core.
- Mid-frequency transformer core, distribution transformer core.
- Amorphous electromagnetic shielding material for digital devices.

Performance Index

Item	Performance	Item	Performance
Bs (T) Saturate induction	1.56	λ s Magnetostriction	27×10^{-6}
Tc (°C) Curie temerature	400	ρ (g/cm ³) Density	7.18
Tx (°C) Crystallization	515	δ (μΩ.cm) Resistivity	130
Hv Hardness	960	Hc (A/m) Coercivity	< 4

Specification

Code introduction: J 1K101 250 28 2
Slitting strip(P-spraying strip) Amorphous Width(incl. a decimal) Thickness Thickness deviation

Part No.	Width (mm)	Thickness (μm)
J1K101030282	3	28
J1K101035282	3.5	28
J1K101045282	4.5	28
J1K101050282	5	28
J1K101060282	6	28
J1K101065282	6.5	28
J1K101080282	8	28
J1K101100282	10	28
J1K101150282	15	28
J1K101200282	20	28
J1K101250282	25	28
J1K101300282	30	28
J1K101350282	35	28
J1K101400282	40	28
J1K101450282	45	28
J1K101500282	50	28
J1K101550282	55	28
J1K101600282	60	28
J1K101650282	65	28
J1K101700282	70	28
J1K1017800282	80	28

Note:

- 1、Ribbon width $\pm 2\mu\text{m}$;
- 2、Welcome other specification concerning customer's demand.

A photograph showing two rolls of aluminum foil tape. One roll is lying flat on a green surface, while the other is propped up behind it. A small piece of the tape is unrolled from the front roll, showing its adhesive side. The rolls are cylindrical and have a metallic, reflective finish.

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Performance of 1K107B Nano-crystalline Ribbon

Item	Performance
Thickness (mm)	0.018-0.025
Stack factor σ	>0.8
Magnetic induction $B_{800}(T)$	$\Rightarrow 1.2$
Coercivity $H_c (A/m)$	≤ 1.6
Core loss $P_{0.5T/20k} (W/kg)$	≤ 25
Core loss $P_{0.3T/100k} (W/kg)$	≤ 100
Permeability $\mu (1kHz)$	$\Rightarrow 70000$
Permeability $\mu (10kHz)$	$\Rightarrow 60000$
Permeability $\mu (100kHz)$	$\Rightarrow 10000$
Curie temperature $T_c (^\circ C)$	570
Operating temperature $(^\circ C)$	-50 ~ +120
Magnetostriction λs	$< 2 \times 10^{-6}$

Specification of 1K107B Nano-crystalline Ribbon

Code introduction: J 1K107B 30 23 2
Slitting strip Nano-crystalline B Ribbon Width Thickness Thickness deviation

Part No.	Width (mm)	Thickness(μm)
J1K107B030232	3	23
J1K107B032232	3.2	23
J1K107B035232	3.5	23
J1K107B045232	4.5	23
J1K107B050232	5	23
J1K107B060232	6	23
J1K107B065232	6.5	23
J1K107B080232	8	23
J1K107B100232	10	23
J1K107B150232	15	23
J1K107B200232	20	23
J1K107B250232	25	23
J1K107B300232	30	23

Note:

- 1、Ribbon thickness $\pm 2\mu m$, Max width 30mm.
- 2、Welcome other specification concerning customer's demand.

Iron-based Amorphous C-Cores



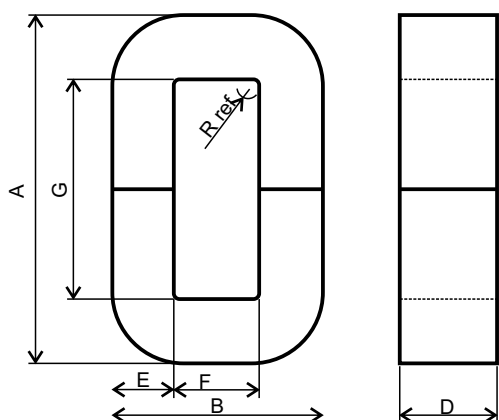
Application

- Reactor cores for PV inverter
- Filter reactor of high frequency super switching power supply
- Mid-high frequency switching power supply
- Major transformer of UPS power supply

Characteristics

- High saturate induction - Reducing core volume
- Rectangular structure - Easy for coil assembling
- Core cutting - Good for anti-DC-bias-saturation
- Low core loss - Anti-temperature rising (10~20% compared to silicon steel)
- Good stability - Stable working rom -50~130°C

Amorphous C-Cores Specification sheet



a - core build; b - window width; c - window height; d - strip width;
e - core width; f - core length; Lm - Length of magnetic path;
Ac - section area; Mass - weight

Code	a (mm) ±		b ^{ref} (mm)	c ^{ref} (mm)	d (mm) ±		e (mm) ±		f (mm) ±		Lm (cm)	Ac (cm ²)	Wa (cm ²)	WaAc (cm ⁴)	Mass (g)
CACC-4	9	0.5	10	32.8	15	0.5	28	1.5	50.8	1.5	11.2	1.20	3.3	3.9	97
CACC-4B	9	0.5	11	33	15	0.5	29	1.5	51	1.5	11.5	1.20	3.6	4.4	99
CACC-6.3	10	0.5	11	33	20	0.5	31	1	53	2	11.8	1.78	3.6	6.5	150
CACC-8	11	0.8	13	30	20	0.5	35	1	52	2	11.9	1.96	3.9	7.6	167
CACC-9	11	0.8	13	37	20	0.5	35	1	59	2	13.1	1.96	4.8	9.4	184
CACC-10	11	0.8	13	40	20	0.5	35	1	62	2	13.7	1.96	5.2	10.2	193
CACC-11	11	0.8	14.5	38	20	0.5	36.5	1	60	2	13.6	1.96	5.5	10.8	191
CACC-12	8	0.5	14	31	40	1	30	1	47	1.5	11.2	2.85	4.3	12.4	228
CACC-16A	11	0.8	13	40	25	0.5	35	1	62	2	13.7	1.45	5.2	12.7	241
CACC-16B	11	0.8	13	50	25	0.5	35	1	72	2	15.7	2.45	6.5	15.9	276
CACC-20	11	0.8	13	50	30	0.5	35	1	72	2	15.7	2.94	6.5	19.1	331
CACC-20B	11	0.8	13.6	50	30	0.5	35.6	1	72	2	15.8	2.94	6.8	20.0	334
CACC-20C	11	0.8	13.3	50	30	0.5	35.3	1	72	2	15.8	2.94	6.7	20.0	333
CACC-20D	11.7	0.8	14	50	30	0.5	37.4	1	73.4	2	16.1	3.17	7.0	22.2	368
CACC-20E	11	0.8	14	50	30	0.5	36	1	72	2	15.8	2.94	7.0	20.2	336
CACC-21	11	0.8	17	32	40	1	39	1	54	2	12.9	3.92	5.4	21.3	363
CACC-25	13	0.8	15	56	25	0.5	41	1	82	2	17.9	2.89	8.4	24.3	372
CACC-26	16	1	40	45	20	0.5	72	1	77	2	21.7	2.85	18.0	51.3	443
CACC-26B	16	1	20	50	20	0.5	52	1	82	2	18.7	2.85	10.0	28.5	382
CACC-30	8	0.5	20	54	40	1	36	1	70	2	17.0	2.85	10.8	30.8	347
CACC-31	10	0.5	15.4	53.6	30	0.5	25.4	1	73.6	2	16.6	2.67	8.3	22.0	318
CACC-32	13	0.8	15	56	30	0.5	41	1	82	2	17.9	3.47	8.4	29.2	447
CACC-32B	13	0.8	15.2	56	30	0.5	41.2	1	82	2	18.0	3.47	8.5	29.5	448
CACC-32C	13	0.8	15.6	56	30	0.5	41.6	1	82	2	18.1	3.47	8.7	30.3	450
CACC-32D	13	0.8	15.3	57	30	0.5	41.3	1	83	2	18.3	3.47	9.0	31.3	456
CACC-32E	13.5	0.8	16	56	30	0.5	43	1	83	2	18.3	3.64	9.0	32.6	478
CACC-33	10	0.5	20	58	40	1	40	1	78	2	18.4	3.56	11.6	41.3	470
CACC-34	15	0.8	30	60	25	0.5	60	1	90	2	22.4	3.34	18.0	60.1	536
CACC-35	13	0.8	15	61	30	0.5	41	1	87	3	18.9	3.47	9.2	31.8	472
CACC-40	13	0.8	15	56	35	0.5	41	1	82	2	17.9	4.05	8.4	34.0	521
CACC-50	16	1	20	70	25	0.5	52	1	102	2	22.7	3.56	14.0	49.8	580
CACC-60	14.4	0.8	31.2	52	30	0.5	60	1	80.8	2	20.8	3.84	16.2	62.4	574
CACC-60B	16	1.0	20	60	35	1	52	1	92	2	20.7	4.98	12.0	59.8	740
CACC-62	14.4	0.8	41.2	62	30	0.5	70	1	90.8	2	24.8	3.84	25.5	98.2	685
CACC-63	16	1	20	70	30	0.5	52	1	102	3	22.7	4.27	14.0	59.8	695
CACC-64	16	1	20	43	45	1	52	1	75	2	17.3	6.41	8.6	55.1	795
CACC-64B	14	0.8	20	48	45	1	48	1	76	2	17.7	5.61	9.6	53.8	710

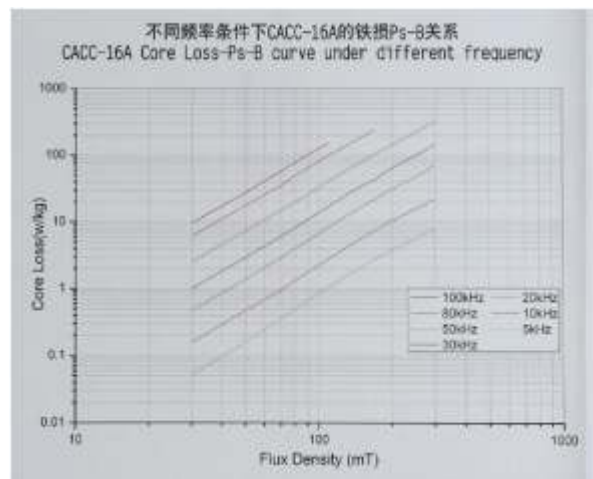
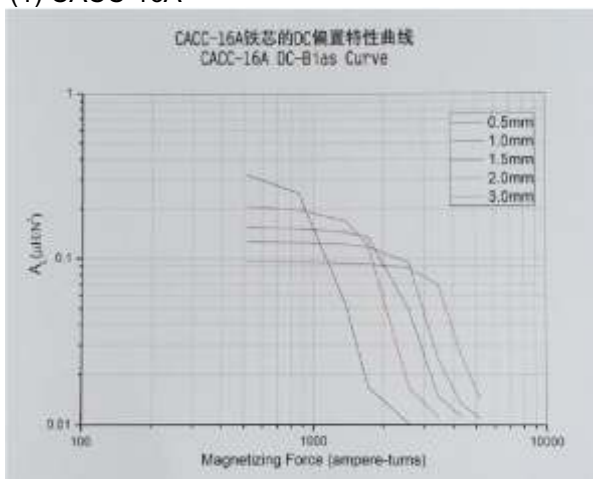
Code	a (mm) ±		b ^{ref} (mm)	c ^{ref} (mm)	d (mm) ±		e (mm) ±		f (mm) ±		Lm (cm)	Ac (cm ²)	Wa (cm ²)	WaAc (cm ⁴)	Mass (g)
CACC-65	16	1	20	58	45	1	52	1	90	2	20.3	6.41	11.6	74.3	933
CACC-66	15	0.8	29	60	40	1	59	1	90	2	22.2	5.34	17.4	92.9	850
CACC-66B	14.4	0.8	51.2	82	30	0.5	80	1	110.8	3	30.8	3.84	42.0	161.4	851
CACC-70	20	1	40	60	30	0.5	80	1	100	3	25.9	5.34	24.0	128.2	994
CACC-71	14.4	0.5	31.2	62	30	0.5	60	1	90.8	2	22.8	3.84	19.3	74.4	630
CACC-74	20	1	26	63	30	0.5	66	1	103	3	23.7	5.34	16.4	87.5	910
CACC-80	16	1	20	70	40	1	52	1	102	3	22.7	5.70	14.0	79.7	927
CACC-84	12	0.8	30	60	20	0.5	54	1	84	2	21.4	25.14	18.0	38.4	328
CACC-95	15	0.8	60	64	15	0.5	90	1	94	2	29.2	2.00	38.4	76.9	419
CACC-100	16	1	20	70	45	1	52	1	102	3	22.7	6.41	14.0	89.7	1043
CACC-110	16	1	25	75	45	1	57	1	107	3	24.7	6.41	18.8	120.2	1135
CACC-117	20	1	35	77	20	0.5	75	1	117	3	28.3	3.56	27.0	95.9	724
CACC-118	20	1	32	80	20	0.5	72	1	120	3	28.3	3.56	25.6	91.1	724
CACC-120	14.4	0.8	41.2	70	30	0.5	70	1	98.8	2	26.4	3.84	28.8	110.9	729
CACC-125	19	1	25	83	35	0.5	63	1	121	3	27.2	5.92	20.8	122.8	1157
CACC-128	22	1	35	84	25	0.5	79	1	128	4	30.4	4.90	29.4	143.9	1067
CACC-130	19.4	1	41.2	80	30	0.5	80	1	118.8	3	30	5.18	33.0	170.7	1115
CACC-135	20	1	40	92	30	0.5	80	1	132	4	32.3	5.34	36.8	196.5	1240
CACC-140	26	1	45	88	30	0.5	97	1	140	4	34.4	6.86	39.6	271.8	1696
CACC-140A	26	1	45	88	40	1	97	1	140	4	34.4	8.94	39.6	354.2	2210
CACC-160	19	1	25	83	40	1	63	1	121	3	27.2	6.76	20.8	140.4	1322
CACC-168S	20.4	0.5	30	154	20	0.5	70.8	1	195	4	42.9	3.63	46.3	168.0	1118
CACC-180	25	1	35	65	30	0.5	85	1	115	3	27.5	6.68	22.8	151.9	1318
CACC-193	40	1	50	113	40	1	130	1	193	4	44.7	13.92	56.5	786.5	4462
CACC-200	19	1	25	83	50	1	63	1	121	3	27.2	8.46	20.8	175.4	1652
CACC-200B	14	0.8	35	93	68.3	1	63	1	121	3	29.7	8.51	32.6	277.0	1811
CACC-210	40	1	50	130	50	1	130	2	210	4	48.1	17.40	65.0	1131.0	6002
CACC-245*	16.5	1	38	74	60	1	71	1	107	3	27.2	8.81	28.1	247.8	1723
CACC-250	19	1	25	90	60	1	63	1	128	3	28.6	10.15	22.5	228.3	2085
CACC-270	20	1	30	70	60	1	70	1	110	3	25.9	10.68	21.0	224.3	1988
CACC-275	25	1	35	78	50	1	85	1	128	3	30.1	11.13	27.3	303.7	2404
CACC-310	25	1	82	90	25	0.5	132	1	140	4	41.7	5.56	73.8	410.5	1667
CACC-315	25	1	78	100	25	0.5	128	2	150	4	43.1	5.56	78.0	433.9	1721
CACC-320	22	1	35	85	50	1	79	2	129	4	30.6	9.79	29.8	291.3	2148
CACC-320B	22	1	35	105	50	1	79	1	149	4	34.6	9.79	36.8	359.8	2429
CACC-340	26	1	80	104	30	0.5	132	2	156	4	44.5	6.86	83.2	571.1	2190
CACC-367S	25.8	1	67	97.8	25	0.5	118.6	1.5	149.4	4	40.6	5.68	65.5	371.9	1652

Code	a (mm)	±	b ^{ref} (mm)	c ^{ref} (mm)	d (mm)	±	e (mm)	±	f (mm)	±	Lm (cm)	Ac (cm ²)	Wa (cm ²)	WaAc (cm ⁴)	Mass (g)
CACC-380	30	1	86	95	30	0.5	146	2	155	4	45.1	7.92	81.7	647.1	2565
CACC-385	19.8	1	35	89.5	70	1	74.6	1	129.1	3	30.8	12.34	31.3	386.4	2725
CACC-400	22	1	35	85	65	1	79	1	129	3	30.4	12.73	29.8	378.6	2777
CACC-410	32	1	50	113	40	1	114	1	177	4	42.1	11.26	56.5	636.4	3407
CACC-415	22	1	46	72	80	1.5	90	1	116	3	30.0	15.66	33.1	518.8	3373
CACC-435	28	1	70	126	20	0.5	126	2	182	4	47.7	4.93	88.2	434.6	1686
CACC-455*	17	1	40	84	90	1.5	74	1	118	3	29.8	13.62	33.6	457.5	2912
CACC-500	25	1	40	85	55	1	90	1	135	3	32.3	12.24	34.0	416.1	2741
CACC-509B	23.7	1	25	78	40	1	72.4	1	125.4	3	27.7	8.44	19.5	164.5	1678
CACC-520	17	1	40	84	90	1.5	74	1	118	3	29.8	13.62	33.6	457.5	2912
CACC-570A	25	1	40	100	45	1	90	1	150	3	35.5	9.90	40.0	396.0	2523
CACC-570B	25	1	40	100	50	1	90	1	150	3	35.5	11.00	40.0	440.0	2804
CACC-630	25	1	40	85	70	1	90	1	135	4	32.3	15.58	34.0	529.6	3615
CACC-640	32	1	74	118	40	1	138	2	182	4	47.9	11.26	87.3	983.6	3876
CACC-650	40	1	40	115	40	1	120	2	195	4	43.1	13.92	46.0	640.3	4302
CACC-660	40	1	80	80	40	1	160	2	160	4	44.1	13.92	64.0	890.9	4402
CACC-664	33	1	40	208	85	1.5	106	1.5	274	5	59.5	24.68	83.2	2053.7	10535
CACC-800A	25	1	40	85	85	1.5	90	1	135	4	32.3	18.91	34.0	643.0	4390
CACC-800B	30	1	40	95	85	1.5	100	1	155	4	35.9	22.44	38.0	852.7	5784
CACC-905	32	1	54	118	50	1	118	1	182	4	44.1	14.08	63.7	897.2	4458
CACC-920*	21.5	1	60	90	90	1.5	103	1	133	3	36.1	17.22	54.0	929.9	4470
CACC-1000	33	1	40	105	85	1.5	106	1.5	171	5	38.9	24.68	42.0	1036.7	6884
CACC-1050	40	1	50	100	70	1	130	2	180	5	42.1	24.36	50.0	1218.0	7353
CACC-1200	40	1	79	130	70	1	159	2	210	4	53.9	24.36	102.7	2501.8	9417
CACC-1300	40	1	86	150	70	1	166	2	230	4	59.3	24.36	129.0	3142.4	10362
CACC-1400	40	1	64	120	80	1.5	144	2	200	4	48.9	27.84	76.8	2138.1	9763
CACC-1500	40	1	64	160	80	1.5	144	2	240	5	56.9	27.84	102.4	2850.8	11362
CACC-1600	45	1	45	145	95	1.5	135	2	235	5	51.6	36.98	65.3	2412.9	13703
CACC-1725	63.5	1	38.1	97.8	90	1.5	165	2	224.8	4	46.8	49.15	37.3	1831.4	16507
CACC-1750	61	1	45	140	70	1	167	2	262	4	55.6	36.72	63.0	2313.5	14670
CACC-1800	33	1	75	240	60	1	141	2	306	5	72.5	17.42	180.0	3136.3	9070
CACC-2000	60	1	60	150	35	0.5	180	2	270	4	60.3	18.06	90.0	1625.4	7822
CACC-2950*	28	1	78	128	120	1.5	134	2	184	3	49.7	29.23	99.8	2918.5	10419
CACC-3604	40	1	64	200	80	1	144	2	280	4	64.9	27.84	128.0	3563.5	12961
CACC-10000	75	1	50	150	144	1.5	200	2	300	5	62.9	92.88	75.0	6966.0	41923
CACC-25000	80	1	60	180	80	1.5	220	2	340	5	72.6	55.04	108.0	5944.3	28694
CACC-30000	75	1	72	385	75	1	222	2	535	5	114.4	48.38	277.2	13409.6	39748

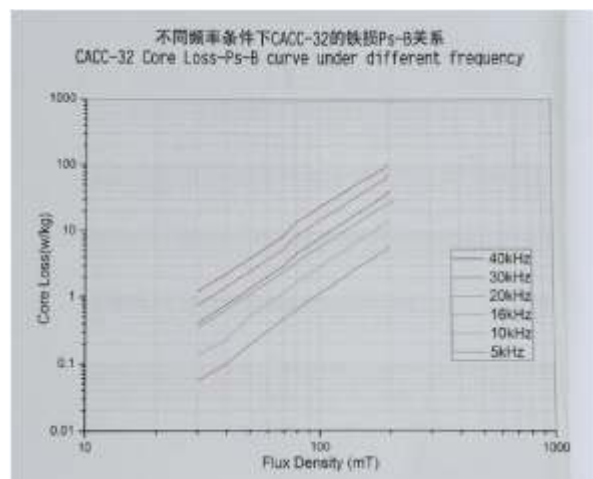
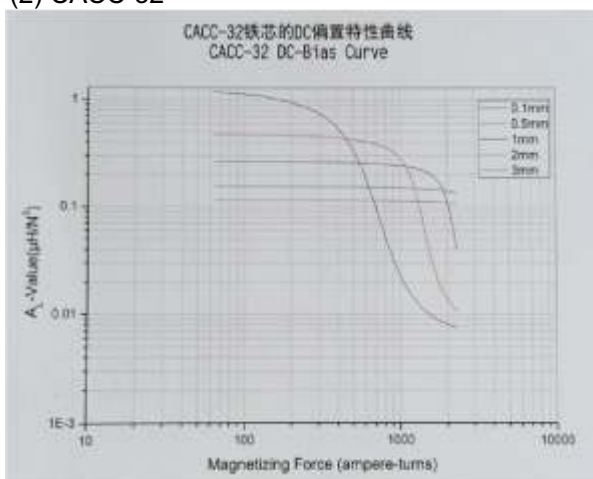
Note: Welcome other specification concerning customer's demand.
 ref is for reference, "*" refers to asymmetric cutting.

Performance Curve

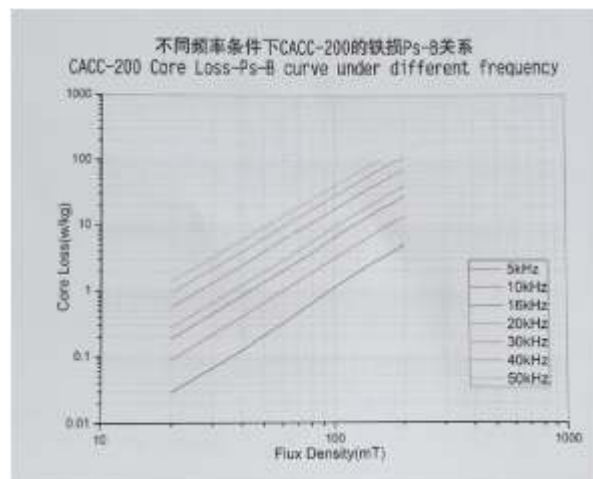
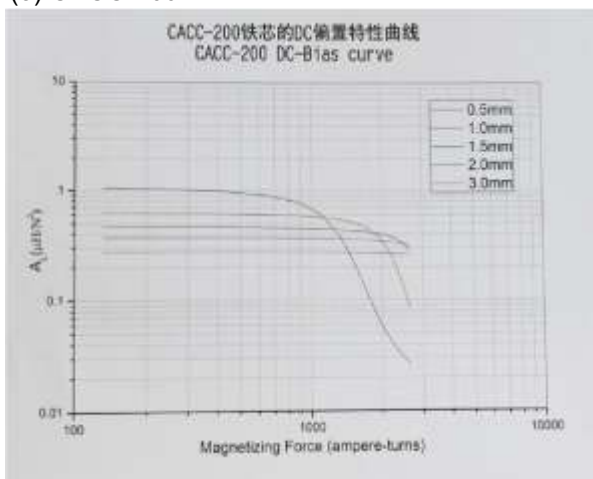
(1) CACC-16A



(2) CACC-32



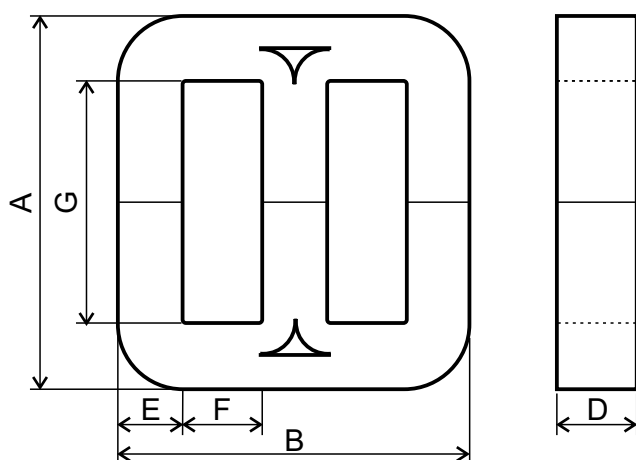
(3) CACC-200



Iron-based Amorphous E-Cores



HSD E-cores Specification



a - core build; b - window width; c - window height; d - strip width; e - core width; f - core length; Mass - weight

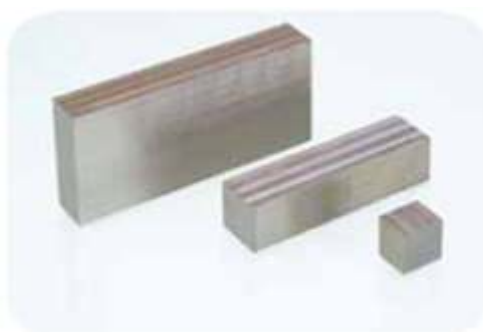
Code	a (mm)	±	b ^{ref} (mm)	c ^{ref} (mm)	d (mm)	±	e (mm)	±	f (mm)	±	Mass ^{ref} (g)
CACC(E) - 47	15	0.8	25	47	30	0.5	95	1	77	2	891
CACC(E) - 200	22	0.8	25	70	30	0.5	116	2	114	3	1743
CACC(E) - 273	24	0.8	38	85	40	1	148	2	133	3	3139
CACC(E) - 300	25	0.8	25	78	40	1	125	2	128	3	2889
CACC(E) - 331	22	0.8	40	87	50	1	146	2	131	3	3643
CACC(E) - 900	25	0.8	40	118	50	1	155	2	167.5	3	5016
CACC(E) - 950	32	1	40	64	50	1	176	2	128	3	5132
CACC(E) - 1200	30	1	55	120	35	0.5	200	2	180	3	4832
CACC(E) - 1406	35	1	45	120	85	1.5	195	2	190	3	13435
CACC(E) - 3000	50	1	64	100	80	1.5	278	2	200	3	20311

Note: Welcome other specification concerning customer's demand. "ref" is for reference.

Iron-based Amorphous Blocked Cores

Application

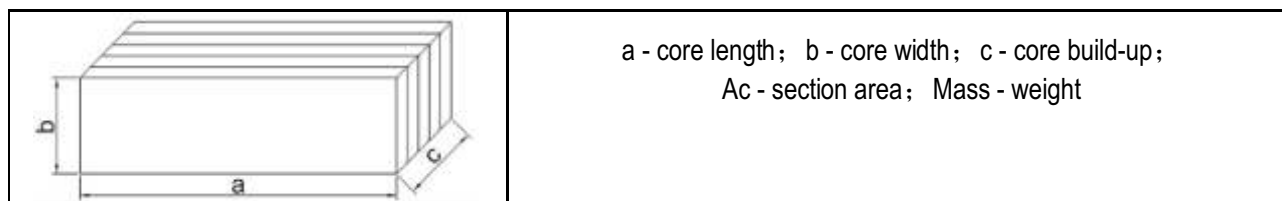
- Reactor cores for PV inverter
- Filter reactor of high frequency super switching power supply



Characteristics

- High saturate induction - Reducing core volume
- Free combination - Easy for coil assembling and high power design
- Dispersed gaps - Good for anti-DC-bias-saturation and anti-temperature-rising
- Low core loss - increase efficiency (10~20% no-load loss compared to silicon steel)
- Good stability - Stable working from -50~150°C

Amorphous Block Cores Specification

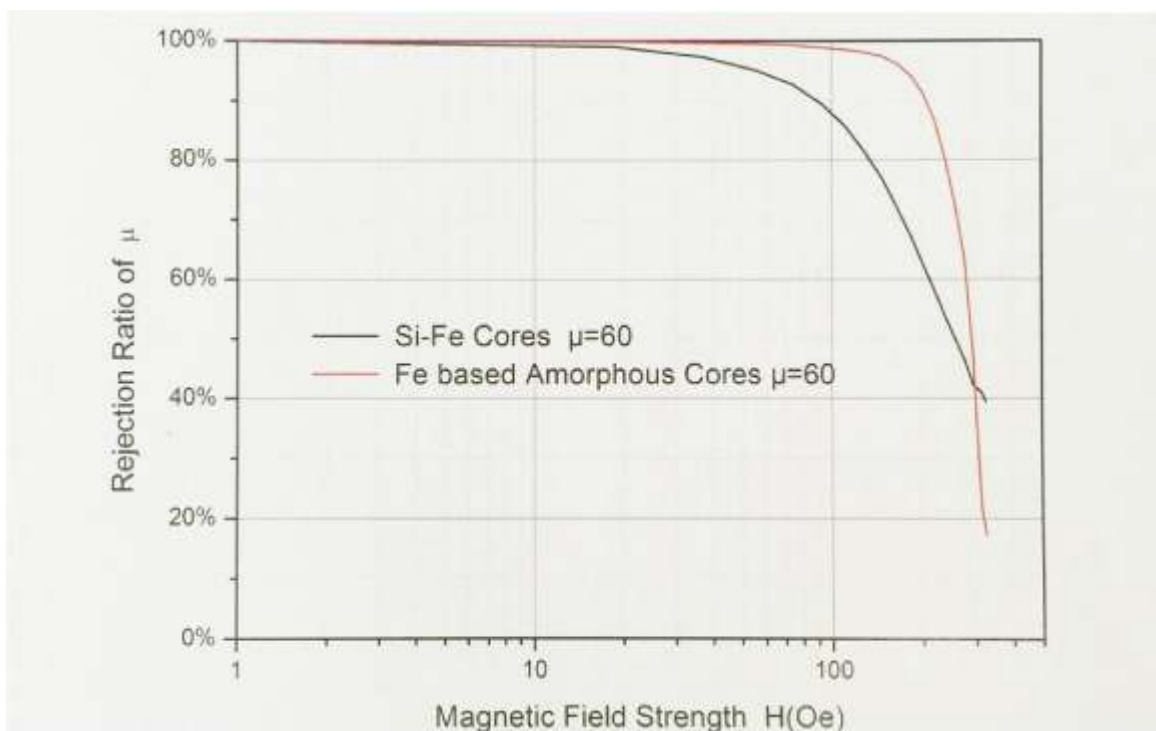
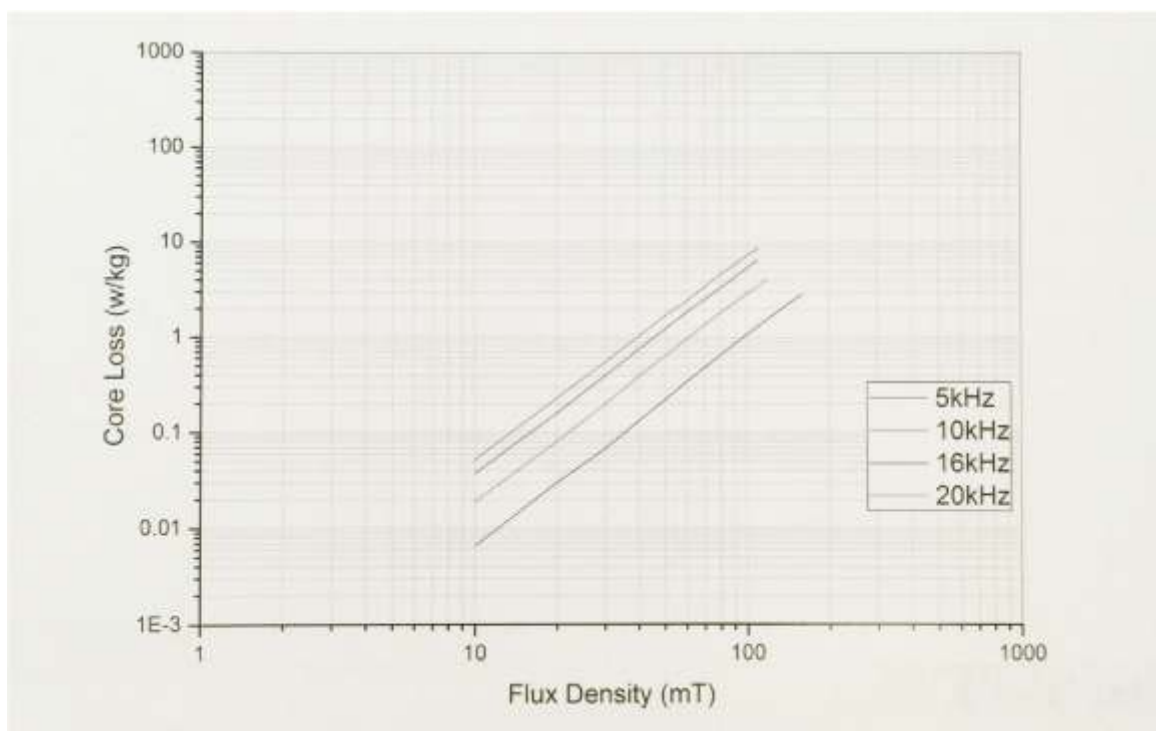


Code	a (mm)	±	b (mm)	±	c (mm)	±	Ac ^{ref} (mm ²)	Mass ^{ref} (g)
CABC-090002000300	90	0.5	20	0.5	30	0.5	522	344
CABC-082502500250	82.5	0.5	25	0.5	25	0.5	544	329
CABC-127002500250	127	0.8	25	0.5	25	0.5	544	506
CABC-130002500300	130	0.8	25	0.5	25	0.5	544	518
CABC-160002500600	160	1	25	0.5	60	1	1298	1520
CABC-085003000700	85	0.5	30	0.5	70	1	1817	1131
CABC-090003000800	90	0.5	30	0.5	80	1	2076	1368
CABC-090003000850	90	0.5	30	0.5	85	1	2206	1454
CABC-100003000850	100	0.8	30	0.5	85	1	2206	1615
CABC-110003000290	110	0.8	30	0.5	29	0.5	757	610
CABC-110003000350	110	0.8	30	0.5	35	0.5	914	891
CABC-140003000350	140	0.8	30	0.5	35	0.5	914	1743
CABC-110003000850	110	0.8	30	0.5	85	1	2206	3139
CABC-160003000850	160	1	30	0.5	85	1	2206	2889
CABC-180003000700	180	1	30	0.5	70	1	1817	3643
CABC-180003000800	180	1	30	0.5	80	1	2076	5016
CABC-180003000850	180	1	30	0.5	85	1	2206	5132
CABC-120003500850	120	0.8	35	0.5	85	1	2573	4832
CABC-140003500357	140	0.8	35	0.5	32.7	0.5	1087	13435
CABC-155003500950	155	1	35	0.5	95	1	2876	20311
CABC-285003500850	285	1	35	0.5	85	1	2573	5371
CABC-060004000130	60	0.5	40	0.5	13	0.5	452	199
CABC-150004000600	150	1	40	0.5	60	1	2076	2281
CABC-155004500397	155	1	45	0.5	39.7	0.5	1554	1764
CABC-122005000700	122	0.8	50	0.5	70	1	3027	2705
CABC-175005000650	175	1	50	0.5	65	1	2811	3603
CABC-230005000700	230	1	40	0.5	70	1	3028	5100

Note: Welcome other specification concerning customer's demand.

Performance Curve

Core Loss-Flux Density curve under different frequency



Nano-crystalline EMC Common Mode Choke Core

Application

- Solar inverters
- Switched-mode power supplies
- Frequency converter
- EMC filters
- Welding equipment
- Wind generators
- Automotive applications
- Inductive cooking
- Uninterrupted Power Supply (UPS)



Characteristics

- High B_s & μ , easy to design, reduce core geometry effectively. Fig 1 shows the curve of magnetic hysteresis loop for different permeability.
- Excellent frequency character, see Fig 3.
- Stable temperature character, see Fig 4
- Excellent impedance character.
- Low magnetostriction coefficient, low noise.

Performance Index

Item	Unit	Reference Value
(B_s) Saturated induction density	T	1.2
(μ_i) Permeability	Gs/Oe	8.5×10^4
(10kHz) Permeability	Gs/Oe	8.0×10^4
(100kHz) Permeability	Gs/Oe	2.0×10^4
(T_c) Curie Temperature	°C	570
(ρ) Density	g/cm ³	7.2
(δ) Resistivity	$\mu\Omega \cdot \text{cm}$	$\Rightarrow 130$
(k) Stacking Factor	---	$\Rightarrow 0.8$

Specification

Code introduction: NC 0001 L w 01
Nanocrystalline Core Specification No Low Br Case color: w(hite), b(lack), c(oating) Feature No

PN#		Dimension OD*ID*H (mm)		Cross section	Magnetic Path	Weight	Permeability (μ at 10kHz)		AL Nominal μ h		SAT Current Typical A	
CODE	VAC	Core	Finished core	Afe cm ²	lfe cm	mFe g	Specified value	Design ref.	10kHz	100kHz	10kHz	100kHz
NC-0100-L-c-02	W620	16x12.5x6	17.8x10.7x8	0.08	4.5	2.6	50000 $\leq\mu'\leq$ 96700	67000	15	4.8	0.5	0.8
NC-0100-L-c-01	W619					2.6	20000 $\leq\mu'\leq$ 38700	26800	6	3.9	1.1	1.7
NC-00035-L-c	W867	22x17x16	24x15.2x8	0.12	6.1	5.4	50000 $\leq\mu'\leq$ 96700	67000	16.4	4.3	0.6	1.2
NC-0088-L-c-01	W622	25x20x10	27.3x17.5x12.3	0.19	7.1	9.9	50000 $\leq\mu'\leq$ 96700	67000	22.5	7.2	0.7	1.4
NC-0088-L-c-02	W621					9.9	20000 $\leq\mu'\leq$ 38700	26700	9	5.8	1.7	2.7
NC-0088-L-c-03	W676	30x25x15	32.3x22.7x17.5	0.27	8.6	17.4	50000 $\leq\mu'\leq$ 96700	66000	26.5	8.5	0.9	1.7
NC-0088-L-c	W911	30x20x10	32.5x17.8x12.5	0.40	7.9	23.1	65600 $\leq\mu'\leq$ 127000	87000	56	13.4	0.6	1.2
NC-0015-L-c	W624	40x32x15	42.3x29.1x17.8	0.44	11.3	36	50000 $\leq\mu'\leq$ 96700	67000	32.5	10.3	1.1	2.2
NC-0015-L-c-01	W623					36	20000 $\leq\mu'\leq$ 38700	26700	13	8.4	2.8	4.3
NC-0015-L-c-02	W886	45x32x15	47.3x29.8x17.8	0.71	12.1	63.3	20000 $\leq\mu'\leq$ 38700	26600	19.7	12.8	3	4.6
NC-0016-L-c-01	W626	50x40x20	52.3x37.1x22.8	0.73	14.1	76	50000 $\leq\mu'\leq$ 96700	66000	43	13.8	1.4	2.7
NC-0016-L-c-02	W625					76	20000 $\leq\mu'\leq$ 38700	26100	17	11.2	3.6	5.4
NC-0299-L-c	W627	63x50x20	65.5x46.6x27.8	0.95	17.8	124	20000 $\leq\mu'\leq$ 38700	26700	18	11.6	4.4	6.7
NC-0299-L-c-01	W721					124	12900 $\leq\mu'\leq$ 25000	20000	11.5	10.4	6.9	8.7
NC-0300-L-c	W628	80x63x20	83x59.5x22.8	1.24	22.5	205	20000 $\leq\mu'\leq$ 38700	26700	18.5	12	5.6	8.5
NC-0300-L-c-01	W722					205	12900 $\leq\mu'\leq$ 25000	17300	11.9	10.7	8.7	11
NC-0230-L-c	W629	100x80x20	107x75x23	1.46	28.3	303	20000 $\leq\mu'\leq$ 38700	26700	17.3	11.2	7.1	10.7
NC-0230-L-c-01	W723					303	12900 $\leq\mu'\leq$ 25000	17300	11.2	10	10.9	13.8
NC-0186-L-c-01	W567	130x100x25	134.5x95x28.5	2.85	36.1	757	37500 $\leq\mu'\leq$ 72500	50000	50	19.4	4.8	8.5
NC-0186-L-c	W630			2.74	36.1	727	20000 $\leq\mu'\leq$ 38700	26600	25.4	16.5	9	13.6
NC-0186-L-c-02	W587			2.74	36.1	727	12900 $\leq\mu'\leq$ 25000	17200	16.4	14.7	14	17.7
NC-0032-L-c	W631	160x130x25	165x125x28.5	2.74	45.6	917	20000 $\leq\mu'\leq$ 38700	26700	20.1	13.1	11.3	17.1
NC-0032-L-c-01	W720					917	12900 $\leq\mu'\leq$ 25000	17200	13	11.7	17.6	22.3
NC-0209-L-c-01	V105	194x155x25	200x149x28.5	3.71	54.8	1490	40000 $\leq\mu'\leq$ 77300	53000	45.3	14.7	6.9	12.5
NC-0209-L-c	W908					1490	12900 $\leq\mu'\leq$ 25000	17600	14.7	13.2	20.7	26.4

PN#		Dimension OD*ID*H (mm)		Cross section	Magnetic Path	Weight	Permeability (μ at 10kHz)		AL Nominal μ h		SAT Current Typical A	
CODE	VAC	Core	Finished core	Afe cm ²	lfe cm	mFe g	Specified value	Design ref.	10kHz	100kHz	10kHz	100kHz
NC-0178-L-w	W914	9.8x6.5x4.5	11.2x5.1x5.8	0.06	2.6	1.1	65600 $\leq\mu'\leq$ 127000	87000	25.5	6.4	0.2	0.4
NC-0010-L-w	W902	12x8x4.5	14.1x6.6x6.3	0.07	3.1	1.7	72000 $\leq\mu'\leq$ 139000	97000	28	6.8	0.2	0.4
NC-0226-L-w	W498	12.5x10x5	14.3x8.5x7	0.05	3.5	1.3	42200 $\leq\mu'\leq$ 81500	56000	10	3.6	0.4	0.8
NC-0039-L-w	W865	15x10x4.5	17.1x7.9x6.5	0.09	3.9	2.6	72000 $\leq\mu'\leq$ 139000	94000	27	6.7	0.3	0.5
NC-0217-L-w	W403	16x10x6	17.9x8.1x8.1	0.14	4.1	4	72000 $\leq\mu'\leq$ 135000	97000	43	10.1	0.3	0.6
NC-0217-L-w-01	W308					4	18000 $\leq\mu'\leq$ 35000	23700	11.7	6.5	1.2	1.7
NC-0179-L-w	W515	17.5x12.6x6	19x11x8	0.12	4.7	4.1	72000 $\leq\mu'\leq$ 135000	96000	30	6.9	0.3	0.7
NC-0044-L-w-01	W838	19x15x10	21.2x13x12.3	0.16	5.3	6.3	72000 $\leq\mu'\leq$ 130000	96000	36.1	8.8	0.4	0.7
NC-0038-L-w	W409	20x12.5x8	22.6x10.3x10.2	0.24	5.1	9	72000 $\leq\mu'\leq$ 135000	97000	55.2	13.6	0.4	0.7
NC-0038-L-w-01	W450					9	18100 $\leq\mu'\leq$ 35000	23700	14.3	9.1	1.4	2.1
NC-0088-L-w-03	W523	25x20x10	27.6x17.4x12.8	0.20	7.1	10.4	60000 $\leq\mu'\leq$ 116000	80000	28.4	7.3	0.6	1.1
NC-0141-L-w-01	W380	25x16x10	27.9x13.6x12.5	0.36	6.4	17	72000 $\leq\mu'\leq$ 135000	95000	65.6	15.5	0.4	0.9
NC-0141-L-w-02	W451					17	15000 $\leq\mu'\leq$ 35000	24300	17	11.5	1.7	2.6
NC-0141-L-w-04	W980					17	3300 $\leq\mu'\leq$ 6400(100kHz)	4400	3.2	3.1	9.3	9.6
NC-0008-L-w-01	W423	30x20x10	32.8x17.6x12.5	0.40	7.9	23	72000 $\leq\mu'\leq$ 135000	103000	59.3	14	0.5	1
NC-0141-L-w-14	W358					23	19500 $\leq\mu'\leq$ 35200	25500	15.5	11.1	2.1	3.1
NC-0141-L-w-11	W981					23	3280 $\leq\mu'\leq$ 6400(100kHz)	4400	2.9	2.8	11.4	11.8
NC-0058-L-b	W514	30x20x15	32.8x17.5x17.8	0.57	7.9	33	72000 $\leq\mu'\leq$ 135000	96000	88	20	0.5	1.1
NC-0015-L-w-03	W422	40x32x15	43.1x28.7x18.5	0.46	11.3	38	72000 $\leq\mu'\leq$ 135000	95000	47.2	11.1	0.8	1.5
NC-0015-L-w-04	W452					38	15000 $\leq\mu'\leq$ 29000	20000	12.2	7.9	3.7	5.1
NC-0015-L-w-10	W964					38	3160 $\leq\mu'\leq$ 6300(100kHz)	4300	2.3	2.2	16.6	17.1
NC-0023-L-b-02	W424	40x25x15	43.1x22.5x18.5	0.86	10.2	64	72000 $\leq\mu'\leq$ 135000	94000	101	23.1	0.7	1.4
NC-0023-L-b-06	W453					64	17850 $\leq\mu'\leq$ 34500	23700	25.4	17.2	2.9	4.2
NC-0177-L-b	V102	45x30x15	48.3x26.4x18.2	0.86	11.8	74	72000 $\leq\mu'\leq$ 135000	96000	87.5	20.3	0.8	1.6
NC-0177-L-b-01	V118					74	20000 $\leq\mu'\leq$ 38700	26700	24.3	15.9	3	4.5
NC-0177-L-b-02	V101					74	12900 $\leq\mu'\leq$ 25000	17200	15.7	14.3	4.6	5.8
NC-0016-L-w-02	W516	50x40x20	53.5x36.3x23.4	0.76	14.1	79	50000 $\leq\mu'\leq$ 97000	66000	45.3	14	1.4	2.7
NC-0016-L-w-03	W565					79	20000 $\leq\mu'\leq$ 38700	26600	18	10	3.5	5.3
NC-0017-L-b	W517	63x50x25	67.3x46.5x28.6	1.24	17.8	161	50000 $\leq\mu'\leq$ 97000	67000	58.6	18.1	1.8	3.5
NC-0017-L-b-01	V110					161	20000 $\leq\mu'\leq$ 38700	26500	23.3	13.5	4.4	6.7
NC-0017-L-b-02	W985					163	2850 $\leq\mu'\leq$ 5510(100kHz)	3700	3.3	3.2	30.2	30.9
NC-0147-L-b	V140	80x50x20	86x44.7x25.7	2.28	20.4	342	71250 $\leq\mu'\leq$ 137000	95000	94	28	1.4	2.8
NC-0147-L-b-02	W531					342	18700 $\leq\mu'\leq$ 36300	24900	35	24	5.5	8.2
NC-0147-L-b-04	V091					347	$\geq$ 5170	5170	9.6	9.2	26.4	27.3
NC-0096-L-b-01	W518	90x60x20	95.4x54.7x24.7	2.28	23.6	395	50000 $\leq\mu'\leq$ 97000	67000	81	25.1	24	4.5
NC-0096-L-b-02	W984					400	2800 $\leq\mu'\leq$ 5400(100kHz)	3700	4.6	4.5	40.9	41.8
NC-0188-L-w	V082	100x80x25	105.5x75x29.6	1.90	28.3	379	50000 $\leq\mu'\leq$ 97000	67000	56.3	16.9	2.8	5.3
NC-0188-L-w-01	V081					379	12900 $\leq\mu'\leq$ 25000	17200	14.5	13.1	10.9	13.8
NC-0144-L-b	W468	102x76x25	108.1x70x30.3	2.47	28	508	50000 $\leq\mu'\leq$ 97000	67000	68.8	21.6	3.8	6.7
NC-0144-L-b-02	V080					508	12900 $\leq\mu'\leq$ 25000	17200	19.1	17.2	10.7	13.6
NC-0144-L-b-01	W947					515	2840 $\leq\mu'\leq$ 5480(100kHz)	3800	4.3	4.2	47.4	48.5
NC-0032-L-b-03	V074	160x130x25	166.9x123.9x30.5	2.74	45.6	917	27600 $\leq\mu'\leq$ 59590	36000	26.8	13.7	8.4	13.6
NC-0032-L-b-02	V088			2.74	45.6	917	20000 $\leq\mu'\leq$ 38700	26500	20.1	13.1	11.3	17.1
NC-0032-L-b	V066			2.74	45.6	917	12900 $\leq\mu'\leq$ 25000	17200	12.9	11.7	17.6	22.3
NC-0032-L-b-04	W982			2.85	45.6	967	2800 $\leq\mu'\leq$ 5400(100kHz)	3700	3	2.9	79.3	81.1

Performance Curve

Fig. 1 Magnetic hysteresis loop for different permeability

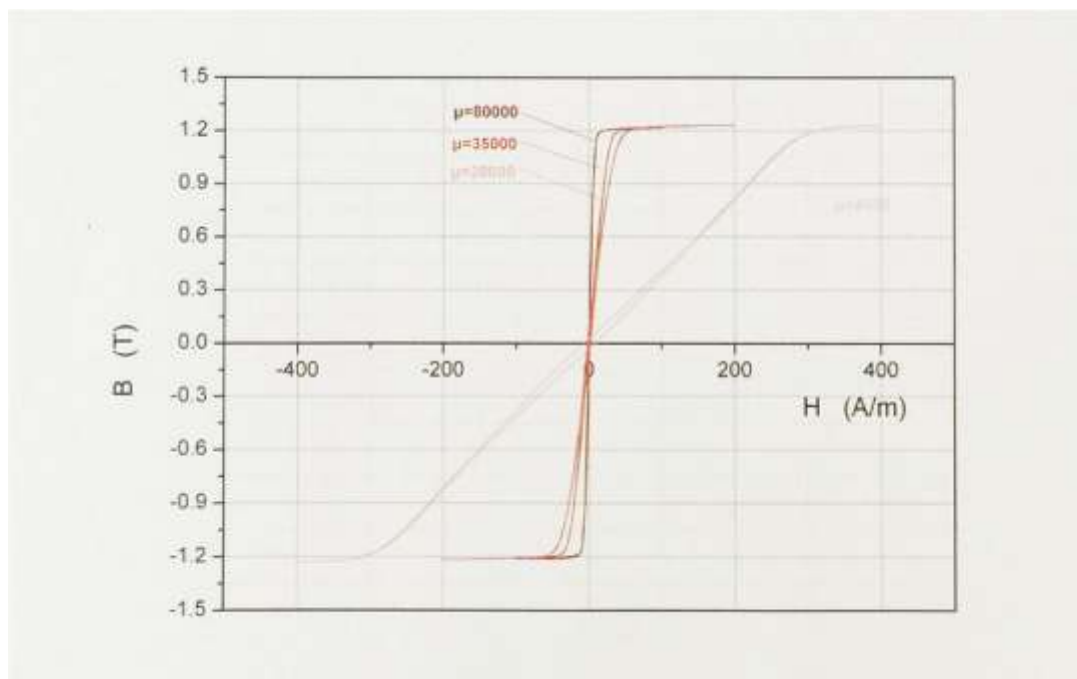
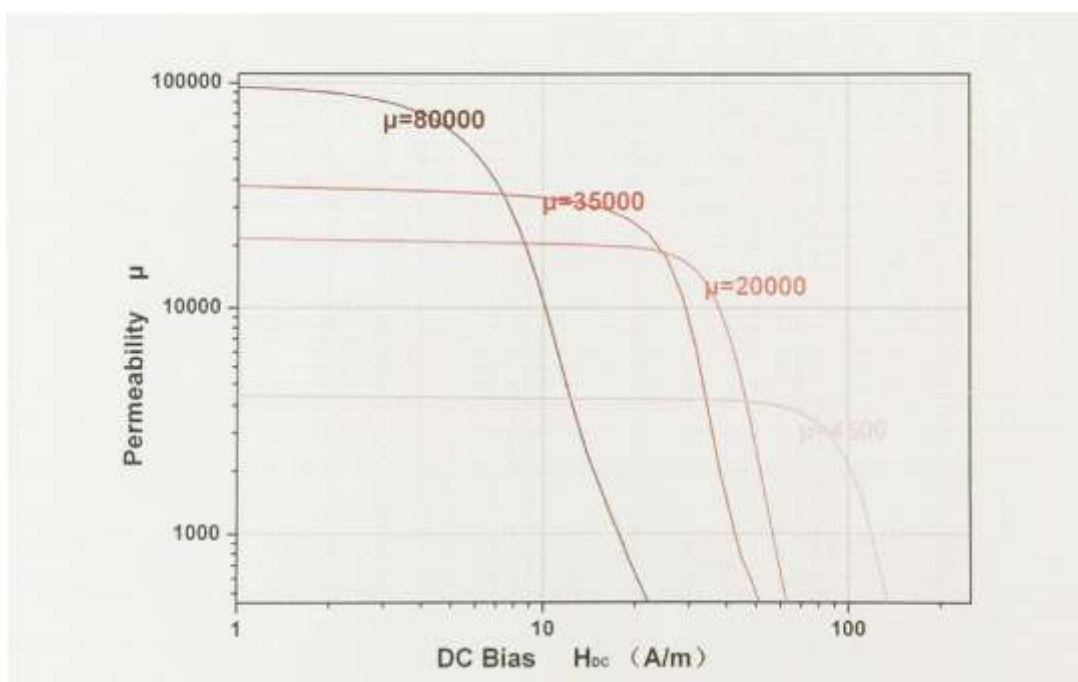


Fig. 2 Permeability characteristics under DC bias fields for various type of nanocrystalline



Performance Curve

Fig. 3 Frequency response of the permeability

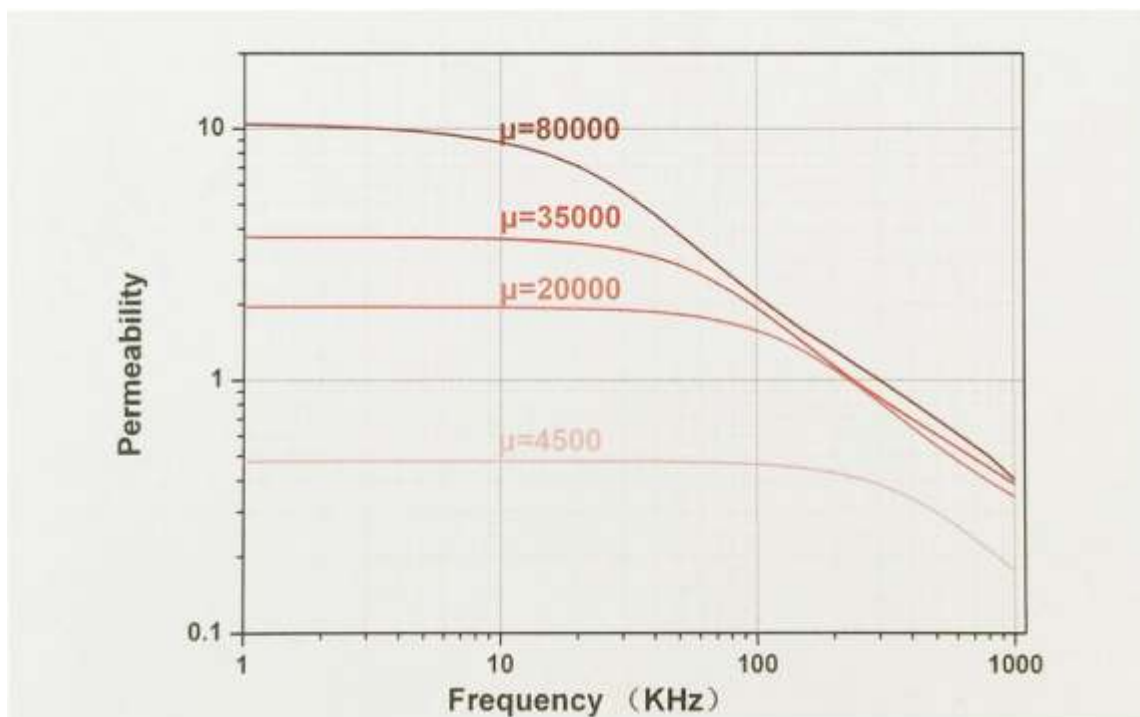
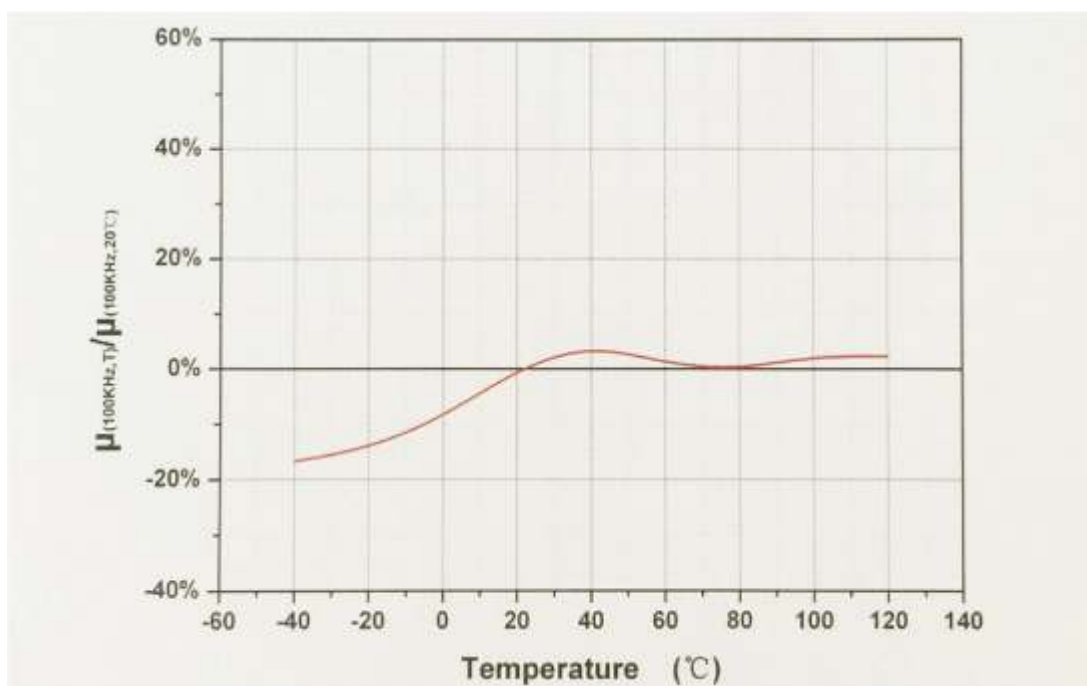


Fig. 4 Realitive change of μ vs Temperature



Nano-cystalline Switch Hi-Power Transformer Core(Iron-based)

Usually the Hi-Power are welding inverter's single-ended pulse transformers require the transformer cores with low high frequency loss, high Bs and low Br so that to achieve bigger ΔB . Output filter and energy stored inductance required the characteristics of high Bs, low loss and constant permeability, in the case, we made horizontal magnetic treatment on Nano-crystalline alloy to manufacture the transformer cores with low Br and constant permeability.

Application

- Inverter Welding machine power supply
- X-ray, laser, communication power supply
- UPS and high frequency induction heating power supply
- Charging power supply
- Electronic and electroplate power supply
- Frequency control of motor speed power supply
- Plasma cutting machine



Characteristics

- High B_s - Reducing volume and weight of the cores.
- High permeability and low coercive force - Higher efficiency and less excited power of transformer.
- Low B_r ($B_r \leq 0.2T$) - Higher magnetic flux density and output power.
- Low core loss - Lower temperature rising, higher efficiency of the transformer.
- Keep stable working at $-45^\circ C \sim +130^\circ C$ for long time.



Performance Index

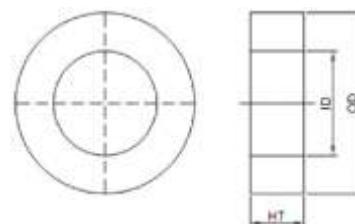
Comparison between Nano-crystalline and Ferrite cores

Basic magnetic property	Nano-crystalline	Ferrite
Saturate induction B_s (T)	1.25	0.5
B_r (T) (20kHz) < 0.20	0.2	
Core loss (20kHz/0.5T) (W/Kg)	< 25	---
Core loss (20kHz/0.32T) (W/Kg)	< 35	---
Permeability (20kHz) (Gs/Oe)	> 20,000	2,000
H_c (A/m)	< 1.60	6
Magnetostriction (λ_s)	< 2×10^{-6}	4
Resistivity δ ($\mu\Omega \cdot cm$)	130	10^6
Curie temperature T_c ($^\circ C$)	570	< 200
Stacking factor	0.75	---

Specification

Code introduction: NH
Nano-crystalline Current Transformer
Cores

0001
Model Specification



Code No	Core size (mm)			Case size (mm)			Ac (cm ²)	Le (cm)	Weight(g)	Suitable Power
	OD	ID	HT	OD	ID	HT				
NH-0002	50	32	20	54	28	24	1.35	12.87	125	1-1.5
NH-0003	64	40	20	66	37	23	1.72	16.3	215	1-2
NH-0004	70	40	20	75	36	25	2.03	17.28	265	1-2
NH-0005	70	40	25	72	37	28	2.81	17.3	352	3
NH-0006	80	50	25	85	44	30	2.81	20.4	416	3
NH-0010	100	50	25	105	45	44	4.69	23.56	805	8
NH-0011	100	6	20	105	56	23	2.88	25.1	540	3-4
NH-0014	105	60	30	110	57	35	5	25.9	957	8-10
NH-0015	105	60	40	110	57	34	6.3	26.06	1267	10-15
NH-0018	110	60	20	116	55	25	3.5	26.69	725	5-7
NH-0019	110	60	25	115	54	30	4.37	26.69	907	6-9
NH-0020	110	60	30	115	55	35	5.25	26.69	1081	8-10
NH-0021	120	60	30	125	57	35	6.48	28.2	1384	12-15
NH-0022	120	70	20	125	67	25	3.6	29.8	811	10
NH-0023	120	70	25	125	67	30	4.6	29.8	1014	8-10
NH-0024	120	70	30	125	67	35	5.4	29.8	1217	10-12
NH-0025	120	70	40	125	67	47	7.5	29.8	1538	12-18
NH-0026	130	80	40	136	76	45	7.2	30.3	1793	15-20
NH-0027	130	80	50	136	76	55	9	32.9	2242	20-25
NH-0029	130	90	50	136	85	56	7.5	34.5	1879	20-25
NH-0035	80	50	20	85	44	25	2.1	20.56	332	2-3
NH-0037	130	80	60	135	76	66	11.25	32.99	2700	22-28

Note:

- * Welcome other specification concerning customer's demand;
- * The performance based on 20kHz only.

Nano-crystalline Current Transformer Cores for Power Use

The higher CT core permeability, the lower measurement error & higher measurement accuracy. Silicon steel CT core can not get enough measurement accuracy under the situation of low Ampere-turns of small turn ratios. The Fe-Ni Permalloy core's applications are limited due to its low magnetization and high cost. Nano-crystalline cores are getting wider usage for the accuracy grade precision current transformers, because of its high permeability, high magnetization and lower cost in the field of power supply systems, power energy measurement and controlling systems, etc.



Characteristics

- High permeability & high saturation induction B_s - Increase CT's accuracy, level, smaller volume & high linearity.
- Good temperature stability - Keep stable from $-55^{\circ}\text{C} \sim +120^{\circ}\text{C}$ for long time.

Performance Index

Item	Performance	Item	Performance
Saturation induction B_s (T)	1.25	Magnetostriction (λ_s)	2.0×10^{-6}
Curie temperature T_c ($^{\circ}\text{C}$)	570	Density ρ (g/cm^3)	7.2
Crystalline temperature T_x ($^{\circ}\text{C}$)	500	Resistivity ($\mu\Omega\cdot\text{cm}$)	130
Hardness Hv	880	Thickness (μm)	28 ~ 35
Initial permeability (μ_0)	$>12 \times 10^4$	Stacking factor	≥ 0.75

Specification

Part No.	Core Dimension			Case Dimension			Remark
	OD	ID	HT	OD	ID	HT	
NR-0004	19	14	6.5	22.2	12	9	
NR-0007	21	16	10	23.8	14.5	12.5	
NR-0008	20	14	10	23.5	12.5	12.5	
NR-0012	26	19	10	29	16.5	12.5	
NR-0014	40	30	10	43	27.5	12.5	
NR-0017	40	30	15	43	27.5	17.5	
NR-0019	83	38	40	88	34	45	
NR-0020	71	39	33	76	35	38	
NR-0021	70	42	30	75	3	35	
NR-0022	68	45	30	73	41	35	
NR-0023	68	45	25	73	41	30	
NR-0024	78	60	25	83	56	30	
NR-0025	80	60	30	85	56	35	
NR-0026	82	63	30	87	59	35	
NR-0027	70	40	25	75	36	30	
NR-0028	82	45	50	87	41	55	
NR-0029	82	45	30	87	41	35	
NR-0030	85	45	60	90	40	65	
NR-0031	85	50	30	90	46	35	
NR-0032	80	50	35	85	46	40	
NR-0033	86	60	40	91	56	45	
NR-0034	78	60	35	83	56	40	
NR-0038	115	85	20	120	81	25	
NR-0119	78	60	30	83	56	35	
NR-0120	88	50	40	93	46	45	
NR-0121	120	95	20	125	91	25	
NR-0122	83	30	50	88	26	55	
NR-0123	80	50	30	85	46	35	
NR-0125	80	50	25	85	46	30	
NR-0126	90	73	30	95	69	35	
NR-0128	90	43	40	95	39	45	
NR-0129	88	60	35	93	56	40	
NR-0130	110	90	45	115	86	50	
NR-0131	100	75	20	105	71	25	
NR-0137	115	85	25	120	81	20	
NR-0138	120	95	15	125	91	20	
NR-0139	120	85	20	125	81	25	
NR-0078	265	210	10	271	203	17	
NR-0079	220	180	20	227	172	25	
NR-0080	220	180	30	227	172	35	
NR-0086	560	470	12	572	458	18	

Note:

Core shapes can be round, rectangular & course types, other sizes possible concerning customer's demand.

Case material can be PBT, PA66, DMC, AL, Stainless cased or resinous coated types.

Nano-crystalline CT core's B-H data

H (mA/cm)	B (Gs)	H (mA/cm)	B (Gs)	H (mA/cm)	B (Gs)	H (mA/cm)	B (Gs)
0.26	30	3.92	1400	6.2	2800	7.85	4200
0.47	50	3.99	1450	6.25	2850	7.93	4250
0.89	100	4.09	1500	6.32	2900	8.01	4300
1.17	150	4.17	1550	6.37	2950	8.05	4350
1.38	200	4.27	1600	6.45	3000	8.13	4400
1.57	250	4.47	1650	6.52	3050	8.2	4450
1.7	300	4.47	1700	6.57	3100	8.25	4500
1.81	350	4.54	1750	6.65	3150	8.3	4550
1.91	400	4.62	1800	6.71	3200	8.35	4600
2.02	450	4.72	1850	6.77	3250	8.4	4650
2.19	500	4.79	1900	6.85	3300	8.48	4700
2.31	550	4.87	1950	6.91	3350	8.53	4750
2.41	600	4.94	2000	6.97	3400	8.58	4800
2.48	650	5.02	2050	7.02	3450	8.63	4850
2.58	700	5.09	2100	7.1	3500	8.7	4900
2.63	750	5.19	2150	7.15	3550	8.75	4950
2.71	800	5.29	2200	7.22	3600	8.8	5000
2.8	850	5.37	2250	7.27	3650	8.88	5050
2.9	900	5.44	2300	7.33	3700	8.95	5100
2.96	950	5.52	2350	7.38	3750	9	5150
3.04	1000	5.6	2400	7.43	3800	9.08	5200
3.14	1050	5.7	2450	7.48	3850	9.13	5250
3.24	1100	5.77	2500	7.55	3900	9.21	5300
3.36	1150	5.85	2550	7.61	3950	9.28	5350
3.46	1200	5.92	2600	7.65	4000	9.36	5400
3.59	1250	6.01	2650	7.71	4050	9.43	5450
3.72	1300	6.07	2700	7.75	4100	9.51	5500
3.82	1350	6.12	2750	7.81	4150	9.58	5550

Nano-crystalline CT core's B-H data

H (mA/cm)	B (Gs)	H (mA/cm)	B (Gs)	H (mA/cm)	B (Gs)	H (mA/cm)	B (Gs)
9.63	5600	12.26	7000	16.55	8400	24.21	9800
9.68	5650	12.39	7050	16.73	8450	24.52	9850
9.76	5700	12.51	7100	16.93	8500	25.23	9900
9.83	5750	12.56	7150	17.18	8550	26.21	9950
9.93	5800	12.74	7200	17.43	8600	27.42	10000
10	5850	12.84	7250	17.68	8650	28.61	10050
10.08	5900	12.97	7300	17.9	8700	29.73	10100
10.16	5950	13.09	7350	18.15	8750	31.4	10150
10.26	6000	13.22	7400	18.33	8800	32.63	10200
10.36	6050	13.37	7450	18.58	8850	33.82	10250
10.43	6100	13.52	7500	18.83	8900	34.93	10300
10.53	6150	13.62	7550	19.06	8950	36.92	10350
10.61	6200	13.77	7600	19.36	9000	38.13	10400
10.71	6250	13.92	7650	19.61	9050	40.62	10450
10.76	6300	14.09	7700	19.88	9100	43.62	10500
10.83	6350	14.27	7750	20.16	9150	46.53	10550
10.93	6400	14.47	7800	20.46	9200	49.82	10600
11.01	6450	14.6	7850	20.76	9250	53.34	10650
11.13	6500	14.72	7900	21.06	9300	57.23	10700
11.24	6550	14.95	7950	21.39	9350	61.14	10750
11.36	6600	15.12	8000	21.59	9400	66.22	10800
11.49	6650	15.27	8050	21.99	9450	72.23	10850
11.59	6700	15.42	8100	22.29	9500	79.22	10900
11.69	6750	15.62	8150	22.62	9550	88.83	10950
11.79	6800	15.82	8200	22.82	9600	99.22	11000
11.89	6850	15.95	8250	23.09	9650		
12.01	6900	16.22	8300	23.44	9700		
12.16	6950	16.38	8350	23.72	9750		

Nano-cystalline Mini-Precision Current Transformers

The miniature current transformer series using Fe-based nano-crystalline or Fe-based nano-crystalline and amorphous composite cores. It has a higher permeability than traditional magnetic materials and higher harmonic characteristics of DC magnetic field, better linear.

- Nano-crystalline mini current transformers
- Current transformer for metering electric energy



Code introduction: CA 04 XXXXX XX
NICORE CT Serial number Heading code

Iron-based Amorphous Inductor Filter Cores

Fe-based amorphous inductor filter cores show good frequency property, high stable inductance with various DC bias current, and low core loss, wide permeability range from 120 to 1200. Good choice for the usage of inductor, choke, filters etc with high frequency and DC AC subsistent situation with better price property comparison ratio than FeNiMo, FeNi and FeSiAl powder cores.

