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Fe-based Nanocrystalline C Core

Application

- Intermediate frequency transformer
- Auxiliary power transformer for rail transit
- Inductor for new energy vehicles
- Power transformer

Features

- (20kHz, 0.05T P≤0.5w/kg) Low core loss (20kHz, 0.05T P≤0.5w/kg)
- (10000-15000 Gs/Oe) High permeability (10000-15000 Gs/Oe)
- Low hysteresis noise

	CA	CC	100	NR
P/N Description		C-core	Serial No.	Nanocrystalline

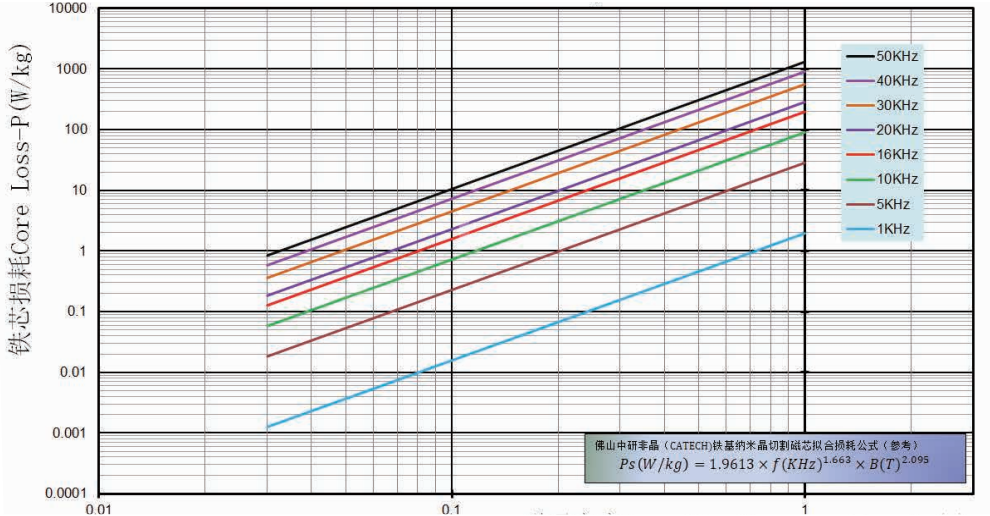
P/N	Core build (mm)		Window width (mm) ref	Window length (mm) ref	Core height (mm)		Core width (mm)		Core length (mm)		R angle	Magnetic path length (cm)	Effective cross section area(cm²)	Window area	Weight (g)
	a	±	b	c	d	±	e	±	f	±	R	Le	Ae	Aw	m
CACC-4NR	9	0.5	10	32.8	15	0.5	28	1	50.8	1.5	1	11.22	1.07	3.28	87
CACC-6.3NR	10	0.5	11	33	20	0.5	31	1	53	2	1	11.77	1.58	3.63	135
CACC-8NR	11	0.8	13	30	20	0.5	35	1	52	2	1	11.88	1.74	3.90	150
CACC-10NR	11	0.8	13	40	20	0.5	35	1	62	2	2	13.71	1.74	5.20	173
CACC-12NR	8	0.5	14	31	40	1	30	1	47	1.5	2	11.17	2.53	4.34	205
CACC-16ANR	11	0.8	13	40	25	0.5	35	1	62	2	2	13.71	2.17	5.20	216
CACC-16BNR	11	0.8	13	50	25	0.5	35	1	72	2	2	15.71	2.17	6.50	247
CACC-20NR	11	0.8	13	50	30	0.5	35	1	72	2	2	15.71	2.61	6.50	297
CACC-25NR	13	0.8	15	56	25	0.5	41	1	82	2	2	17.94	2.57	8.40	334
CACC-26NR	16	1	40	45	20	0.5	72	1	77	2	2	21.68	2.53	18.00	397
CACC-32NR	13	0.8	15	56	30	0.5	41	1	82	2	2	17.94	3.08	8.40	401
CACC-40NR	13	0.8	15	56	35	1	41	1	82	2	2	17.94	3.59	8.40	468
CACC-50NR	16	1	20	70	25	0.5	52	1	102	3	2	22.68	3.16	14.00	520
CACC-63NR	16	1	20	70	30	0.5	52	1	102	3	2	22.68	3.79	14.00	624
CACC-64NR	16	1	20	43	45	1	52	1	75	2	2	17.28	5.69	8.60	713
CACC-65NR	16	1	20	58	45	1	52	1	90	2	2	20.28	5.69	11.60	836
CACC-66NR	15	0.8	29	60	40	1	59	1	90	2	2	22.17	4.74	17.40	762

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	a	±	b	c	d	±	e	±	f	±	R	Le	Ae	Aw	m
CACC-70NR	20	1	40	60	30	0.5	80	1	100	3	2	25.94	4.74	24.00	891
CACC-80NR	16	1	20	70	40	1	52	1	102	3	2	22.68	5.06	14.00	831
CACC-84NR	12	0.8	30	60	20	0.5	54	1	84	2	2	21.43	1.90	18.00	295
CACC-100NR	16	1	20	70	45	1	52	1	102	3	2	22.68	5.69	14.00	935
CACC-110NR	16	1	25	75	45	1	57	1	107	3	2	24.68	5.69	18.75	1018
CACC-117NR	20	1	35	77	20	0.5	75	1	117	3	2	28.34	3.16	26.95	649
CACC-125NR	19	1	25	83	35	1	63	1	121	3	2	27.23	5.25	20.75	1037
CACC-128NR	22	1	35	84	25	0.5	79	1	128	3	2	30.37	4.35	29.40	957
CACC-140NR	26	1	45	88	30	0.5	97	1	140	3	3	34.25	6.16	39.60	1530
CACC-140ANR	26	1	45	88	40	1	97	1	140	3	3	34.25	8.22	39.60	2040
CACC-160NR	19	1	25	83	40	1	63	1	121	3	2	27.23	6.00	20.75	1185
CACC-200NR	19	1	25	83	50	1	63	1	121	3	2	27.23	7.51	20.75	1481
CACC-210NR	40	1.5	50	130	50	1	130	2	210	3	4	47.88	15.80	65.00	5485
CACC-250NR	19	1	25	90	60	1	63	1	128	3	2	28.63	9.01	22.50	1869
CACC-275NR	25	1	35	78	50	1	85	1	128	3	2	30.11	9.88	27.30	2156
CACC-320NR	22	1	35	85	50	1	79	1	129	3	3	30.40	8.69	29.75	1915
CACC-320BNR	22	1	35	105	50	1	79	1	149	3	3	34.40	8.69	36.75	2167
CACC-327NR	25	1	35	105	40	1	85	1	155	3	2	35.51	7.90	36.75	2034
CACC-385NR	20	1	35	90.5	70	1	75	1	130.5	3	3	30.87	11.06	31.68	2475
CACC-400NR	22	1	35	85	65	1	79	1	129	3	3	30.40	11.30	29.75	2490
CACC-455NR	17	1	40	84	90	1.5	74	1	118	3	2	29.80	12.09	33.60	2611
CACC-465NR	25	1	40	105	50	1	90	1	155	3	3	36.34	9.88	42.00	2602
CACC-500NR	25	1	40	85	55	1	90	1	135	3	3	32.34	10.86	34.00	2547
CACC-509BNR	23.7	1	25	78	40	1	72.4	1	125.4	3	2	27.70	7.49	19.50	1504
CACC-509DNR	24.7	1	25	78	40	1	74.4	1	127.4	2	3	27.84	7.81	19.50	1576
CACC-531NR	25	1	35	105	65	1	85	1	155	3	2	35.51	12.84	36.75	3305
CACC-549NR	42	1.5	35	105	40	1	119	2	189	3	4	40.51	13.27	36.75	3898
CACC-557NR	30	1	35	100	60	1	95	1	160	3	3	35.91	14.22	35.00	3702
CACC-570ANR	25	1	40	100	45	1	90	1	150	3	3	35.34	8.89	40.00	2277
CACC-570BNR	25	1	40	100	50	1	90	1	150	3	3	35.34	9.88	40.00	2530
CACC-630NR	25	1	40	85	70	1	90	1	135	3	3	32.34	13.83	34.00	3241
CACC-650NR	40	1.5	40	115	40	1	120	2	195	3	4	42.88	12.64	46.00	3929
CACC-660NR	40	1.5	80	80	40	1	160	2	160	3	4	43.88	12.64	64.00	4021
CACC-695NR	40	1.5	35	94	60	1	115	2	174	3	4	37.68	18.96	32.90	5179
CACC-787NR	40	1.5	40	85	65	1	120	2	165	3	4	36.88	20.54	34.00	5492
CACC-800ANR	25	1	40	85	85	1.5	90	1	135	3	4	32.17	16.79	34.00	3915
CACC-800BNR	30	1	40	95	85	1.5	100	2	155	3	4	35.74	20.15	38.00	5220
CACC-802NR	32	1	60	118	40	1	124	2	182	3	4	44.97	10.11	70.80	3297
CACC-836NR	25	1	50	126	60	1	100	2	176	3	4	42.37	11.85	63.00	3640
CACC-920NR	21.5	1	60	90	90	1.5	103	2	133	3	4	36.07	15.29	54.00	3997
CACC-1000NR	33	1	40	105	85	1.5	106	2	171	3	4	38.68	22.16	42.00	6214
CACC-1050NR	40	1.5	50	100	70	1	130	2	180	3	4	41.88	22.12	50.00	6716
CACC-1200NR	40	1.5	79	130	70	1	159	2	210	4	5	53.51	22.12	102.70	8581

P/N	Core build (mm)		Window width (mm) ref	Window length (mm) ref	Core height (mm)		Core width (mm)		Core length (mm)		R angle	Magnetic path length (cm)	Effective cross section area(cm²)	Window area	Weight (g)
	a	±	b	c	d	±	e	±	f	±	R	Le	Ae	Aw	m
CACC-1300NR	40	1.5	86	150	70	1	166	2	230	4	5	58.91	22.12	129.00	9447
CACC-1400NR	40	1.5	64	120	80	1.5	144	2	200	4	5	48.51	25.28	76.80	8891
CACC-1500NR	40	1.5	64	160	80	1.5	144	2	240	4	5	56.51	25.28	102.40	10357
CACC-1600NR	45	1.5	45	145	95	1.5	135	2	235	4	4	51.45	33.77	65.25	12598
CACC-1658NR	50	1.5	60	138	45	1	160	2	238	4	5	54.45	17.78	82.80	7017
CACC-1800NR	33	1	75	240	60	1	141	2	306	4	5	72.51	15.64	180.00	8223
CACC-2000NR	60	1.5	60	150	35	1	180	3	270	4	5	59.99	16.59	90.00	7216
CACC-2950NR	28	1	78	128	120	1.5	134	2	184	4	5	49.14	26.54	99.84	9456
CACC-3604NR	40	1.5	64	201	80	1	144	2	281	4	5	64.71	25.28	128.64	11860
CACC-25000NR	80	1.5	60	180	80	1.5	220	3	340	4	5	72.27	50.56	108.00	26493
CACC-30000NR	75	1.5	72	385	75	1	222	3	535	4	5	114.10	44.44	277.20	36761

The provided data is for customer's initial design guidelines only, please check the approval data sheet before ordering. *Toroidal, Oval, Clamp Shape or other customized designs are available.

Thypical core loss



Magnetic flux density-B (T)

The Core Loss Curve of Nano-crystalline Cacc Cores



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