MRC Components GmbH & Co. KG ▪ **mrccomponents.de**
D-85354 Freising ▪ Bahnhofstraße 1 ▪ +49.8161.9849.0

MRC COMPONENTS

Softmagnetic Core Material | CutCores (CC) Product Sheet

scan for quote

Softmagnetic amorphous and nanocrystalline CutCores (CC)

The amorphous and nanocrystalline cut cores in rectangular shapes are often used for HF transformer applications, e.g. for X-ray CT, induction heating device, welding machine as well as HF inductor in windpower generator and photovoltaic converter or for boost/down DC-DC converter of EV/HEV, FCV, UPS. The no-load core loss of distribution transformer is about 80% less than SiFe transformer. Such cut cores have got much lower core losses compared to any other magnetic metallic material. The very high saturation flux density (Bs ~ 1,5T amorphous and Bs ~ 1,2T nanocrystalline) allow a compact designing of applications with operation high flux density.
Further shapes available upon request.

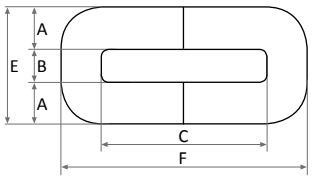
Overview of the rectangular shaped cut core range (nano):

Ref.	A (mm)	B (mm)	C (mm)	D (mm)	E (mm)	F (mm)	Lfe (cm)	Afe (cm²)	Mass* (kg)
PC0187	24	110	158	25	139	187	57,3	4,80	2,20
PC0234	27	51	105	35	121	175	42,8	7,56	2,40
PC0441	35	50	120	30	160	230	52,9	8,40	3,30
PC0703	18	24	60	18	152	188	40,8	2,50	0,78
PC0933	30	30	90	45	80	140	31,4	10,80	2,50
PC1061	30	45	105	30	100	160	38,4	7,20	2,10
PC1091	23	33	79	60	80	126	29,8	11,10	2,44
PC1175	55	60	170	110	145	255	58,2	48,40	21,00
PC1193	30	35	95	30	90	150	34,4	7,20	1,95
PC1257	23	33	79	35	80	126	29,8	6,40	1,40
PC1258	33	50	116	40	200	266	60,3	10,50	4,70
PC1271	25	28	78	35	75	125	28,4	7,00	1,50
PC1308	24	90	138	25	140	188	53,5	4,80	1,90
PC1331	20	35	75	20	90	130	31,3	3,20	0,74

*typical value, no guaranted value

The information is not binding and can be adjusted without prior information.

Sign declaration chart:



MRC Components GmbH & Co. KG ▪ **mrccomponents.de**
D-85354 Freising ▪ Bahnhofstraße 1 ▪ +49.8161.9849.0

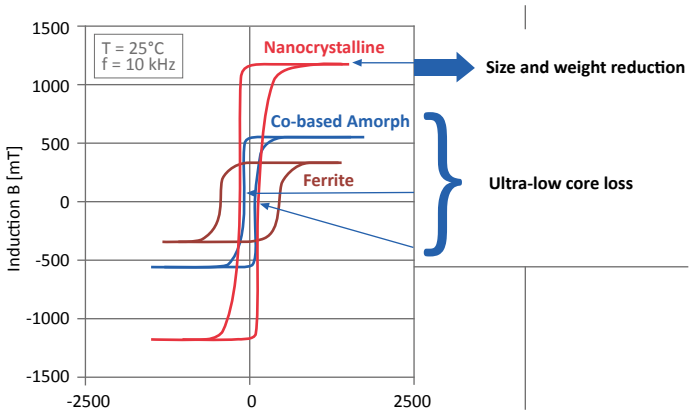
Overview of the rectangular shaped cut core range (amorphous):

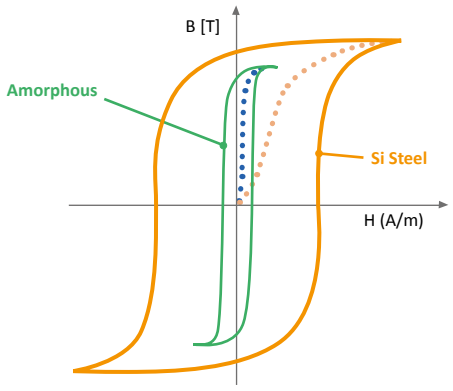
Ref.	Spec.	A (mm)	B (mm)	C (mm)	D (mm)	E (mm)	F (mm)	Lfe (cm)	Afe (cm²)	Mass* (kg)
C.AWC07.CFCC-401-R066	RC066	9	10	32.8	15	28	50.8	12,2	1,11	0,10
C.AWC07.CFCC-6.301-R067	RC067	10	11	33	20	31	53	12,8	1,64	0,15
C.AWC07.CFCC-801-R068	RC068	11	13	30	20	35	52	13,0	1,80	0,17
C.AWC07.CFCC-1001-R069	RC069	11	13	40	20	35	62	15,0	1,80	0,20
C.AWC07.CFCC-16A01-R021	RC021	11	13	40	25	35	62	15,0	2,26	0,25
C.AWC07.CFCC-16B01-R041	RC041	11	13	50	25	35	72	17,0	2,26	0,28
C.AWC07.CFCC-2001-R022	RC022	11	13	50	30	35	72	17,0	2,71	0,34
C.AWC07.CFCC-2501-R045	RC045	13	15	56	25	41	82	19,4	2,67	0,38
C.AWC07.CFCC-3201-R023	RC023	13	15	56	30	41	82	19,4	3,20	0,45
C.AWC07.CFCC-4001-R025	RC025	13	15	56	35	41	82	19,4	3,73	0,53
C.AWC07.CFCC-5001-R026	RC026	16	20	70	25	52	102	24,4	3,28	0,59
C.AWC07.CFCC-6301-R048	RC048	16	20	70	30	52	102	24,4	3,94	0,70
C.AWC07.CFCC-8001-R027	RC027	16	20	70	40	52	102	24,4	5,25	0,94
C.AWC07.CFCC-10001-R029	RC029	16	20	70	45	52	102	24,4	5,90	1,06
C.AWC07.CFCC-12501-R051	RC051	19	25	83	35	63	121	29,2	5,45	1,17
C.AWC07.CFCC-16001-R052	RC052	19	25	83	40	63	121	29,2	6,23	1,33
C.AWC07.CFCC-20001-R053	RC053	19	25	83	50	63	121	29,2	7,79	1,67
C.AWC07.CFCC-25001-R054	RC054	19	25	90	60	63	128	30,6	9,35	2,10
C.AWC07.CFCC-32001-R055	RC055	22	35	85	50	79	129	32,8	9,02	2,17
C.AWC07.CFCC-40001-R057	RC057	22	35	85	65	79	129	32,8	11,73	2,82
C.AWC07.CFCC-50001-R058	RC058	25	40	85	55	90	135	35,0	11,28	2,89
C.AWC07.CFCC-63001-R059	RC059	25	40	85	70	90	135	35,0	14,35	3,68
C.AWC07.CFCC-800A01-R060	RC060	25	40	85	85	90	135	35,0	17,43	4,47
C.AWC07.CFCC-800B01-R061	RC061	30	40	95	85	100	155	39,0	20,91	5,97
C.AWC07.CFCC-100001-R062	RC062	33	40	105	85	106	171	42,2	23,00	7,11

*typical value, no guaranted value

The information is not binding and can be adjusted without prior information.

Typical hysteresis curves (W/H) of different raw materials in comparison:





You have not found the right core?
Please contact us at **info@mrccomponents.de**

Important note: For safety and the proper usage, you are requested to approve the offered product specification for your application. These products are designed for general electronic devices. Performance and safety of this product for applications which could lead to physical harm is not confirmed. Be sure to examine the performance and safety when the product is used for these applications and take appropriate measures, such as failsafe, to avoid any accident. It is the responsibility of user to take such measures.