



## Magnetic Properties of Co-based Amorphous Core

Item	Reference value
(Bs) Saturation flux density (25°C )	0.58 T
Saturation magnetostrictive coefficient (λs)	$<0.2 \times 10^{-6}$
Bipolar flux density (25°C )	1.15 T
Bipolar flux density (90°C )	1 T
Rectangular ratio Br/Bs	≥96%
Curie Temperature, (Tc)	240°C
Continuous operation temperature	90°C





## Co-based Amorphous Core Specification

Core Dimensions	Finished core dimensions (mm)			Effective cross section	Mean effective pathlength	Core weight	Total flux (25°C)	Total flux (90°C)	Effective winding Area	Mean length of copper coil	Heat transfer Resistance	Our Part No.	VAC Part Number
	O.D.	I.D.	H										
10x8x4	11.6	6.5	5.1	0.032	2.83	0.7	3.7	3.2	0.082	2.01	56	CACA-01-0001-H	W534
10.1x6.9x4.5	11.6	5.5	6.0	0.058	2.67	1.2	6.7	5.8	0.059	2.24	57	CACA-01-0002-H	W663
12.8x9.5x3.2	14.7	7.9	4.8	0.042	3.50	1.1	4.8	4.2	0.121	2.23	44	CACA-01-0003-H	W464
12x8x4.5	14.0	6.6	6.2	0.070	3.14	1.7	8.1	7.0	0.085	2.45	47	CACA-01-0004-H	W547
12.5x10x5	14.0	8.5	6.8	0.050	3.53	1.4	5.8	5.0	0.140	2.56	42	CACA-01-0005-H	W535
14x8x4.5	15.5	6.5	5.7	0.108	3.46	2.9	12.4	10.8	0.082	2.53	44	CACA-01-0006-H	W481
15x10x4.5	17.1	7.9	6.5	0.090	3.93	2.7	10.4	9.0	0.121	2.84	37	CACA-01-0007-H	W813
10.7x8.2x4.5	14.0	6.6	6.2	0.045	2.97	1	5.2	4.5	0.085	2.45	47	CACA-01-0008-H	W728
16x10x6	17.9	8.2	8.2	0.144	4.08	4.5	16.6	14.4	0.131	3.20	34	CACA-01-0009-H	W536
17.5x12.5x6	19.1	10.9	8.1	0.120	4.71	4.4	13.8	12.0	0.231	3.30	30	CACA-01-0010-H	W537
19x15x5	21.2	13.0	7.3	0.080	5.34	3.3	9.2	8.0	0.329	3.17	27	CACA-01-0011-H	W539
19x15x10	21.2	13.0	12.3	0.160	5.34	6.6	18.4	16.0	0.329	4.25	24	CACA-01-0012-H	W540
20x12.5x8	22.6	10.3	10.2	0.240	5.10	9.4	27.6	24.0	0.206	4.05	26	CACA-01-0013-H	W538
25x20x10	27.7	17.1	12.9	0.200	7.10	10.9	23.0	20.0	0.568	4.98	18	CACA-01-0014-H	W542
25x16x10	27.9	13.6	12.5	0.360	6.44	17.9	41.4	36.0	0.360	5.00	19	CACA-01-0015-H	W541
30x20x10	32.8	17.6	12.5	0.400	7.85	24.2	46.0	40.0	0.602	5.40	16	CACA-01-0016-H	W543
40x25x10	43.1	22.4	18.5	0.900	10.20	70.8	103.5	90.0	0.980	7.53	11	CACA-01-0020-H	W544
40x32x15	43.3	28.8	0.48	0.480	11.30	41.8	55.2	48.0	1.610	7.37	10	CACA-01-0021-H	W545

Note: Customized sizes available.

