

C Cores in GOES

Standard C Cores

East Manufaxcturing Technologies Ltd distribute a wide range of C-Cores which can be used in the manufacturing of transformers, chokes, reactors and magnetic amplifiers.



We offer C-Cores in all standard ranges which include:

British DEF 5139 HWR-
Chinese CD- & XCD-
French and German standard can be supplied.

All of the above can be supplied to various electrical specifications and can be supplied with spacers to create air gaps if required.

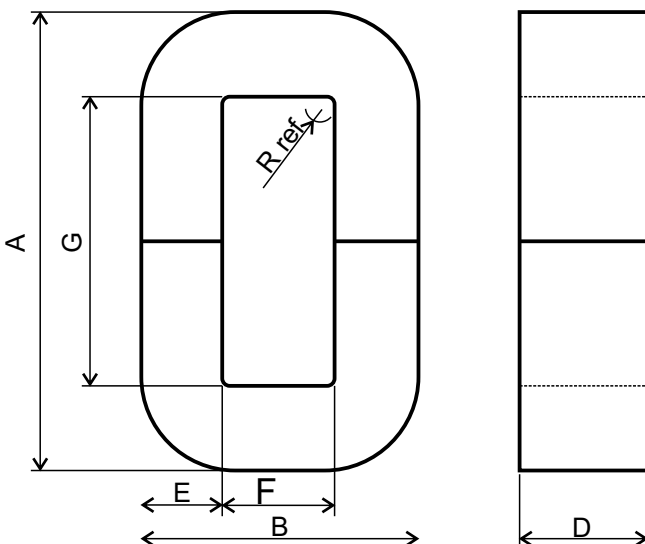
C-Cores can also be manufactured outside of the standard ranges for customer specific applications. Customer designs are welcome.

C-Cores can be supplied in the following material thicknesses:

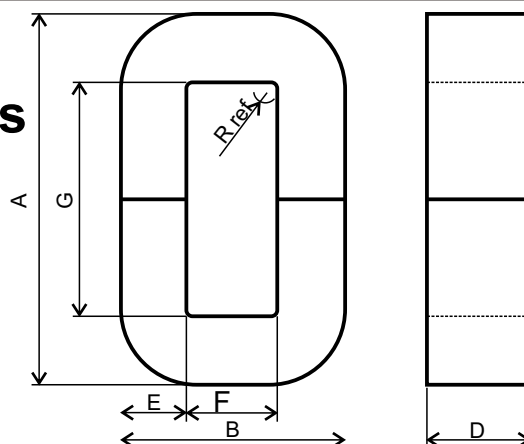
0.35mm
0.30mm
0.27mm
0.23mm
0.10mm
0.08mm
0.05mm

Electrical Guarantees

All core, unless otherwise stated, are individually tested to the standard guarantee specifications. Customer specific testing can be applied if requested and agreed for prior to ordering.

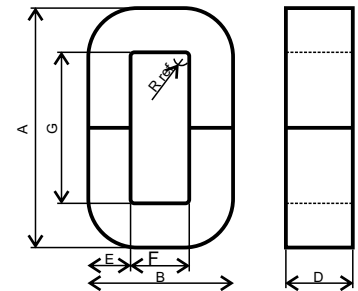


C Core HWR British Series



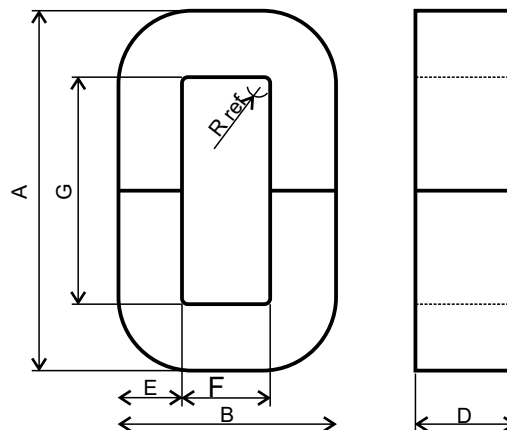
Code	Standard	Dimension (mm)										Weight Kg
		G min	F min	A		B max	D		E		R mm	
HWR-	B.S.5347			max	Tol		min	Tol	min	Tol		
3/4	Q1.1	14.3	6.4	29.4	-2.4	21	7.2	-0.8	7.2	-0.8	1.0	0.018
4/5	Q2.1	17.5	7.9	35.7	-	25.8	8.7	-0.8	8.7	-	-	0.035
5/6	Q3.1	22.2	9.5	43.7	-	30.6	10.3	-0.8	10.3	-	-	0.063
7/6	Q4.1	28.6	11.1	50	-	32.1	10.3	-0.8	10.3	-	-	0.073
10/8	Q5.1	38.1	12.7	56.4	-2.1	30.6	13.5	-0.8	8.7	-0.8	1.5	0.094
10/12	Q5.2	-	-	-	-	-	19.8	-	-	-	-	0.141
10/16	Q5.3	-	-	-	-	-	26.2	-	-	-	-	0.187
10/24	Q5.4	-	-	-	-	-	38.9	-	-	-	-	0.281
30/8	Q6.1	50.8	15.9	73	-3.2	36.9	13.5	-0.8	10.3	-0.8	1.5	0.145
30/12	Q6.2	-	-	-	-	-	19.8	-	-	-	-	0.218
30/16	Q6.3	-	-	-	-	-	26.2	-	-	-	-	0.291
30/20	Q6.4	-	-	-	-	-	32.5	-	-	-	-	0.363
40/12	Q7.1	57.2	19	79.4	-3.2	40.1	19.8	-0.8	10.3	-0.8	3.0	0.239
40/16	Q7.2	-	-	-	-	-	26.2	-	-	-	-	0.319
40/20	Q7.3	-	-	-	-	-	32.5	-	-	-	-	0.398
40/24	Q7.4	-	-	-	-	-	38.9	-	-	-	-	0.478
50/14	Q8.1	63.5	22.2	92.1	-3.2	49.6	23.0	-0.8	13.5	-0.8	3.0	0.432
50/18	Q8.2	-	-	-	-	-	29.4	-	-	-	-	0.553
50/24	Q8.3	-	-	-	-	-	38.9	-	-	-	-	0.739
50/32	Q8.4	-	-	-	-	-	51.6	-	-	-	-	0.989
70/12	Q9.1	76.2	28.6	111.1	-3.2	62.3	19.8	-0.8	16.7	-0.8	3.0	0.567
70/18	Q9.2	-	-	-	-	-	29.4	-	-	-	-	0.898
70/24	Q9.3	-	-	-	-	-	38.9	-	-	-	-	1.140
70/32	Q9.4	-	-	-	-	-	51.6	-	-	-	-	1.520
90/16	Q10.1	88.9	34.9	130.2	-3.2	75	26.2	-0.8	19.8	-0.8	3.0	1.080
90/24	Q10.2	-	-	-	-	-	38.9	-	-	-	-	1.620
90/32	Q10.3	-	-	-	-	-	51.6	-	-	-	-	2.160
90/44	Q10.4	-	-	-	-	-	71.4	-	-	-	-	2.970
110/20	Q11.1	114.3	44.4	169.9	-4.7	97.2	32.5	-0.8	26.2	-0.8	3.0	2.360
110/32	Q11.2	-	-	-	-	-	51.6	-	-	-	-	3.770

C Core CD China Series



Code	Dimension (mm)										Flux path	Cross section		Weight Kg		Approx V.A.	
	G	F	A	B	D	D	E	E	R	L	L(cm)	k (cm ²)		M		0.3mm 50Hz	0.1mm 400Hz
	min	min	max	max	min	max	min	max	max	min		0.3mm	0.1mm	0.3mm	0.1mm		
CD6.5×12.5×8	8.0	8.0	23.0	22.4	12.3	12.9	6.3	6.90	1.5	5.07	5.07	0.747	-	0.029	-	9.69	12.6
CD6.5×12.5×10	10.0	-	25.0	-	-	-	-	-	-	5.47							
CD6.5×12.5×12.5	12.5	-	27.5	-	-	-	-	-	-	5.90							
CD6.5×12.5×16	16.0	-	31.0	-	-	-	-	-	-	6.67							
CD8×12.5×12.5	12.5	10.0	30.5	27.4	12.3	12.9	7.8	8.45	1.5	6.84	6.84	0.920	-	0.048	-	25.8	33.3
CD8×12.5×16	16.0	-	34.0	-	-	-	-	-	-	7.54							
CD8×12.5×20	20.0	-	38.0	-	-	-	-	-	-	8.34							
CD8×12.5×25	25.0	-	43.0	-	-	-	-	-	-	9.34							
CD10×12.5×20	20.0	12.5	42.0	34.0	12.3	12.9	9.8	10.40	1.5	9.47	1.2	1.150	-	0.087	0.083	2.4	56.6
CD10×12.5×25	25.0	-	47.0	-	-	-	-	-	-	10.50							
CD10×12.5×32	32.0	-	54.0	-	-	-	-	-	-	11.90							
CD10×12.5×40	40.0	-	63.0	-	-	-	-	-	-	13.50							
CD12.5×16×25	25.0	16.0	54.0	42.7	15.8	16.4	12.2	13.00	2.0	11.90	1.92	1.840	-	0.175	0.168	10.7	119
CD12.5×16×32	32.0	-	61.0	-	-	-	-	-	-	13.30							
CD12.5×16×40	40.0	-	69.0	-	-	-	-	-	-	14.90							
CD12.5×16×50	50.0	-	79.0	-	-	-	-	-	-	16.90							
CD12.5×25×30	30.0	20.0	59.0	46.8	24.8	25.5	12.2	13.00	2.0	13.70	3	2.880	-	0.314	0.302	31.2	222
CD12.5×25×40	40.0	-	69.0	-	-	-	-	-	-	15.70							
CD12.5×25×50	50.0	-	79.0	-	-	-	-	-	-	17.70							
CD12.5×25×60	60.0	-	89.0	-	-	-	-	-	-	19.70							
CD16×32×40	40.0	25.0	76.0	58.8	31.8	32.6	15.7	16.50	2.0	17.80	4.92	4.710	-	0.670	0.641	89	470
CD16×32×50	50.0	-	86.0	-	-	-	-	-	-	19.80							
CD16×32×65	65.0	-	101.0	-	-	-	-	-	-	22.80							
CD16×32×80	80.0	-	116.0	-	-	-	-	-	-	25.80							
CD20×40×50	50.0	32.0	96.0	74.2	39.8	40.6	19.7	20.60	2.0	22.40	7.68	7.360	-	1.316	1.261	199	813
CD20×40×60	60.0	-	106.0	-	-	-	-	-	-	24.40							
CD20×40×80	80.0	-	126.0	-	-	-	-	-	-	28.40							
CD20×40×100	100.0	-	146.0	-	-	-	-	-	-	32.40							
CD25×50×65	65.0	40.0	121.0	92.2	49.8	50.6	24.7	25.60	3.0	28.50	12	11.500	-	2.616	2.507	448	1595
CD25×50×80	80.0	-	136.0	-	-	-	-	-	-	31.50							
CD25×50×100	100.0	-	156.0	-	-	-	-	-	-	35.50							
CD25×50×120	120.0	-	176.0	-	-	-	-	-	-	39.50							
CD32×64×80	80.0	50.0	152.0	116.6	63.8	64.7	31.7	32.80	3.0	35.70	19.66	18.840	-	5.369	5.145	1006	3197
CD32×64×100	100.0	-	172.0	-	-	-	-	-	-	39.70							
CD32×64×130	130.0	-	202.0	-	-	-	-	-	-	45.70							
CD32×64×160	160.0	-	232.0	-	-	-	-	-	-	51.70							
CD40×80×100	100.0	64.0	188.0	146.8	79.8	80.7	39.7	40.80	3.0	45.00	30.72	29.440	-	10.575	10.135	2106	6152
CD40×80×120	120.0	-	208.0	-	-	-	-	-	-	49.00							
CD40×80×160	160.0	-	248.0	-	-	-	-	-	-	57.00							
CD40×80×200	200.0	-	288.0	-	-	-	-	-	-	65.00							

C Core XCD China Series



Code	Dimension (mm)									Flux path L(cm) min	Cross section k (cm ²) 0.3mm	Weight Kg 0.3mm	Approx V.A. 50Hz
	G	F	A	B	D	D	E	E	R				
	min	min	max	max	min	max	min	max	max				
XCD10×20×20	20	12.5	42	34.0	19.8	20.5	9.7	10.4	1.5	9.47	1.92	0.139	5.2
XCD10×20×25	25	-	47	-	-	-	-	-	-	10.50	-	0.154	7.4
XCD10×20×32	32	-	54	-	-	-	-	-	-	11.90	-	0.175	10.8
XCD10×20×40	40	-	62	-	-	-	-	-	-	13.50	-	0.198	14.2
XCD12.5×25×25	25	16.0	54	42.7	24.8	25.5	12.2	13.0	1.5	11.90	3.00	0.273	21.9
XCD12.5×25×32	32	-	61	-	-	-	-	-	-	13.30	-	0.305	29.8
XCD12.5×25×40	40	-	69	-	-	-	-	-	-	14.90	-	0.342	37.0
XCD12.5×25×50	50	-	79	-	-	-	-	-	-	16.90	-	0.388	46.4
XCD16×32×32	32	16.0	68	49.7	31.8	32.5	15.7	16.5	1.5	14.40	4.92	0.542	45.6
XCD16×32×40	40	-	76	-	-	-	-	-	-	16.00	-	0.602	58.8
XCD16×32×50	50	-	86	-	-	-	-	-	-	18.00	-	0.677	74.6
XCD16×32×64	64	-	100	-	-	-	-	-	-	20.80	-	0.783	94.3
XCD20×40×40	40	20.0	86	62.0	39.8	40.6	19.7	20.6	2.0	18.00	7.68	1.058	111.0
XCD20×40×50	50	-	96	-	-	-	-	-	-	20.80	-	1.222	133.0
XCD20×40×64	64	-	110	-	-	-	-	-	-	22.80	-	1.400	176.0
XCD20×40×80	80	-	126	-	-	-	-	-	-	26.00	-	1.528	220.0
XCD25×50×50	50	25.0	106	77.0	49.8	50.6	24.7	25.6	2.0	22.60	12.00	2.075	263.0
XCD25×50×64	64	-	120	-	-	-	-	-	-	25.40	-	2.332	322.0
XCD25×50×80	80	-	136	-	-	-	-	-	-	28.60	-	2.625	398.0
XCD25×50×100	100	-	156	-	-	-	-	-	-	32.60	-	2.993	484.0
XCD32×64×64	64	32.0	134	98.6	63.8	64.7	31.7	32.8	2.0	29.00	19.66	4.362	634.0
XCD32×64×80	80	-	150	-	-	-	-	-	-	32.20	-	4.843	741.0
XCD32×64×100	100	-	170	-	-	-	-	-	-	36.20	-	5.444	918.0
XCD32×64×125	125	-	195	-	-	-	-	-	-	41.20	-	6.196	1128.0
XCD40×80×80	80	40.0	166	122.6	79.8	80.7	39.7	40.8	2.0	36.20	30.72	8.507	1437.0
XCD40×80×100	100	-	186	-	-	-	-	-	-	40.20	-	9.447	1767.0
XCD40×80×125	125	-	211	-	-	-	-	-	-	45.20	-	10.622	2154.0
XCD40×80×160	160	-	246	-	-	-	-	-	-	52.20	-	12.267	2700.0
XCD50×100×100	100	50.0	206	152.6	99.8	100.7	49.7	50.8	3.0	45.40	48.00	16.670	3191.0
XCD50×100×125	125	-	231	-	-	-	-	-	-	50.40	-	18.510	3837.0
XCD50×100×160	160	-	266	-	-	-	-	-	-	57.40	-	21.077	4724.0
XCD50×100×200	200	-	306	-	-	-	-	-	-	65.40	-	24.015	5681.0