Cores & Laminations

"C" Cores

GENERAL

Grain-oriented silicon steel cut tape wounded cores is a means for producing very efficient transformers and inductors with minimum size. The Magnetic characteristics of "C" cut cores offer the following advantages:

- ☐ Higher permeability than laminations.
- ☐ Reduced core losses.
- ☐ Improved space factor.
- ☐ Better regulation.
- ☐ Easily adjustable air-gap.
- ☐ Rapid assembly.
- ☐ Minimum cost for special sizes.

MATERIAL

Grain-oriented silicon steel has the desirable characteristics of very high maximum flux density, low core losses and high permeability. The phenomenon of grain orientation (crystal texture) is a result of special chemical composition, severe cold rolling and high temperature annealing - all of which contribute to the development of grains (crystals) which are most readily magnetized in the direction of cold rolling but very difficult to magnetize (requiring up to 50 times the excitation) perpendicular to this direction. Therefore it makes sense to utilize this material only in the rolling direction as in tape wound cores, and not cross grain as in the case with laminations.

ELECTRICAL PERFORMANCE

	Bm=1.7T f=50Hz					Bm=1.5T F=400Hz	Bm=1.0T F=400Hz	Bm=1.5T F=400Hz	Bm=1.0T F=400Hz
CORE DESIGNATION	TOTAL EXCITATION VA		TOTAL LOSSES (W)		CORE DESIGNATION	TOTAL EXCITATION VA		TOTAL LOSSES (W)	
	GRADE A	GRADE AA	GRADE A	GRADE AA		GRADE H	GRADE HH	GRADE H	GRADE HH
30 D 06	0.42	0.23	0.035	0.032	10 D 06	3.09	0.52	0.4	0.18
30 F 08	0.73	0.4	0.069	0.062	10 F 08	4.9	0.85	0.75	0.34
30 H10	1.18	0.66	0.13	0.11	10 H 10	7.45	1.34	1.33	0.61
30 J 10	1.28	0.72	0.15	0.13	10 J 10	7.77	1.44	1.55	0.71
30 Q 13	1.55	0.88	0.19	0.17	10 Q 13	9.02	1.72	1.98	0.9
30 Q 19	2.31	1.31	0.28	0.25	10 Q 19	13.5	2.58	2.97	1.35
30 Q 25	3.09	1.75	0.37	0.34	10 Q 25	18.04	3.44	3.97	1.8
30 Q 38	4.64	2.63	0.56	0.5	10 Q 38	27.06	5.16	5.95	2.71
30 T 13	2.19	1.26	0.29	0.26	10 T 13	11.9	2.41	3.09	1.4
30 T 19	3.28	1.88	0.43	0.39	10 T 19	17.8	3.6	4.62	2.1
30 T 25	4.38	2.51	0.58	0.52	10 T 25	23.8	4.81	6.17	2.8
30 T 32	5.47	3.14	0.72	0.65	10 T 32	29.7	6	7.7	3.5
30 U 19	3.49	2.02	0.48	0.43	10 U 19	18.5	3.82	5.08	2.31
30 U 25	4.67	2.69	0.64	0.57	10 U 25	24.74	5.11	6.79	3.09
30 U 32	5.83	3.36	0.8	0.72	10 U 32	30.87	6.38	8.47	3.85
30 U 38	7.01	4.04	0.96	0.86	10 U 38	37.1	7.67	10.18	4.63
30 V 22	6.06	3.52	0.86	0.78	10 V 22	30.84	6.6	9.19	4.18
30 V 29	7.8	4.53	1.11	1	10 V 29	39.73	8.5	11.85	5.38
30 V 38	10.39	6.03	1.48	1.33	10 V 38	52.92	11.33	15.78	7.17
30 V 51	13.86	8.04	1.98	1.78	10 V 51	70.57	15.1	21.04	9.56
30 X 19	7.55	4.42	1.14	1.02	10 X 19	36.52	8.2	12.1	5.5
30 X 29	11.37	6.66	1.71	1.54	10 X 29	54.98	12.35	18.21	8.28
30 X 38	15.15	8.87	2.28	2.05	10 X 38	73.24	16.45	24.26	11.03
30 X 51	20.19	11.82	3.04	2.73	10 X 51	97.65	21.93	32.35	14.71
30 Z 25	13.77	8.11	2.15	1.94	10 Z 25	63.98	14.94	22.93	10.42
30 Z 38	20.65	12.17	3.23	2.91	10 Z 38	95.96	22.41	34.39	15.63
30 Z 51	27.54	16.22	4.3	3.87	10 Z 51	127.95	29.88	45.85	20.84
30 Z 70	37.84	22.29	5.91	5.32	10 Z 70	175.81	41.05	63	28.64
30AD32	28.36	16.85	4.66	4.19	10AD 32	124.75	30.79	49.63	22.56
30AD51	45.45	27	7.45	6.72	10AD 51	199.91	49.35	79.54	36.15

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QLD t. 07 3276 1414 f. 07 3276 1323
SA t. 08 8293 8100 f. 08 8293 8311
WA t. 08 9458 7211 f. 08 9458 7299
TAS t. 03 6423 1176 f. 03 6424 9393

CORE DESIGNATION	Bm=1.7T f=50Hz TOTAL EXCITATION VA		Bm=1.7T f=50Hz TOTAL LOSSES (W)		CORE DESIGNATION	Bm=1.5T F=400Hz Bm=1.0T F=400Hz TOTAL EXCITATION VA		Bm=1.5T F=400Hz Bm=1.0T F=400Hz TOTAL LOSSES (W)	
	GRADE A	GRADE AA	GRADE A	GRADE AA		GRADE H	GRADE HH	GRADE H	GRADE HH
30 AJ 32	43.76	26.16	7.45	6.7	10 AJ 32	184.58	47.62	79.36	36.07
30 AJ 51	69.75	41.69	11.87	10.69	10 AJ 51	294.18	75.89	126.47	57.49
30 AP 32	66.27	39.82	11.6	10.44	10 AP 32	269.99	72.3	123.6	56.18
30 AP 51	105.62	63.46	18.49	16.64	10 AP 51	430.3	115.23	196.98	89.54
30 AS 51	164.62	99.39	29.57	26.61	10 AS 51	649.18	180.21	315.01	143.19
30 AS 70	225.95	136.41	40.59	36.53	10 AS 70	891.03	247.35	432.37	196.53
30 AS 100	322.79	194.88	57.98	52.18	10 AS 100	1272.9	353.35	617.67	280.76
30 HB 32	136.64	82.55	24.63	22.16	10 HB 32	536.54	149.66	262.34	119.25
30 HB 51	217.77	131.56	39.25	35.32	10 HB 51	855.1	238.51	418.1	190.05
30 HF 38	193.19	117.17	35.55	32	10 HF 38	738.22	212.33	378.7	172.14
30 HG 38	357.02	216.85	66.19	59.57	10 HG 38	1350.82	392.93	705.07	320.49
30 HJ 51	255.47	155.26	47.5	42.75	10 HJ 51	962.8	281.32	506.02	230.01
30 HK 51	572.08	348.15	107.11	96.4	10 HK 51	2136.15	630.86	1141.02	518.65
30 SM 30a	0.21	0.12	0.02	0.02	10 SM 30a	1.48	0.25	0.2	0.09
30 SM 30b	0.34	0.19	0.03	0.03	10 SM 30b	2.39	0.41	0.32	0.15
30 SM 42	1	0.56	0.11	0.1	10 SM 42	6.27	1.13	1.15	0.52
30 SM 55	2.33	1.32	0.28	0.25	10 SM 55	13.73	2.6	2.96	1.35
30 SM 65	3.94	2.25	0.5	0.45	10 SM 65	22.18	4.36	5.32	2.42
30 SM 74	6.01	3.45	0.8	0.72	10 SM 74	32.64	6.6	8.47	3.85
30 SM 85a	8.21	4.74	1.12	1.01	10 SM 85a	43.4	8.98	11.96	5.44
30 SM 85b	11.6	6.69	1.59	1.43	10 SM 85b	61.31	12.69	16.89	7.68
30 SM 102a	12.26	7.13	1.77	1.6	10 SM 02a	61.54	13.34	18.89	8.59
30 SM 102b	18.3	10.65	2.65	2.38	10 SM 102b	91.87	19.91	28.2	12.82
30 SE 60	2.58	1.46	0.3	0.27	10 SE 60	15.56	2.9	3.17	1.44
30 SE 66	3.34	1.89	0.4	0.36	10 SE 66	19.58	3.71	4.25	1.93
30 SE 78	5.35	3.06	0.68	0.61	10 SE 78	29.93	5.91	7.27	3.3
30 SE 84a	6.52	3.74	0.85	0.77	10 SE 84a	35.74	7.17	9.09	4.13
30 SE 84b	9.78	5.61	1.28	1.15	10 SE 84b	53.61	10.76	13.64	6.2
30 SE 92a	4.82	2.79	0.66	0.6	10 SE 92a	25.33	5.27	7.08	3.22
30 SE 92b	6.71	3.88	0.92	0.83	10 SE 92b	35.24	7.34	9.85	4.48
30 SE 106a	9.29	5.39	1.32	1.19	10 SE 106a	47.43	10.13	14.08	6.4
30 SE 106b	13.07	7.59	1.86	1.67	10 SE 106b	66.7	14.25	19.8	9
30 SE 130a	14.85	8.69	2.23	2.01	10 SE 130a	71.82	16.13	23.79	10.82
30 SE 130b	18.98	11.11	2.85	2.57	10 SE 130b	91.77	20.61	30.4	13.82
30 SE 150a	21	12.35	3.26	2.93	10 SE 150a	98.33	22.78	34.71	15.78
30 SE 150b	26.25	15.44	4.07	3.67	10 SE 150b	122.91	28.48	43.39	19.72
30 SE 150c	31.5	18.53	4.89	4.4	10 SE 150c	147.5	34.18	52.07	23.67
30 SE 170a	36.17	21.39	5.79	5.21	10 SE 170a	163.62	39.24	61.72	28.05
30 SE 170b	42.8	25.32	6.86	6.17	10 SE 170b	193.65	46.44	73.04	33.2
30 SE 170c	49.44	29.24	7.92	7.13	10 SE 170c	223.67	53.64	84.37	38.35
30 SE 195a	54.5	32.45	9.06	8.16	10 SE 195a	236.31	59.21	96.56	43.89
30 SE 195b	67.27	40.05	11.19	10.07	10 SE 195b	291.66	73.08	119.17	54.17
30 SE 195c	82	48.82	13.64	12.27	10 SE 195c	355.53	89.08	145.27	66.03
30 SE 231a	80.72	48.25	13.73	12.36	10 SE 231a	340.66	87.82	146.3	66.5
30 SE 231b	101.73	60.8	17.31	15.58	10 SE 231b	429.29	110.67	184.37	83.8
30 SE 231c	126.66	75.71	21.55	19.4	10 SE 231c	534.53	137.81	229.57	104.35

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CORE DESIGNATION	Bm=1.7T f=50Hz TOTAL EXCITATION VA		TOTAL LOSSES (W)		CORE DESIGNATION	Bm=1.5T F=400Hz Bm=1.0T F=400Hz TOTAL EXCITATION VA		Bm=1.5T F=400Hz Bm=1.0T F=400Hz TOTAL LOSSES (W)	
	GRADE A	GRADE AA	GRADE A	GRADE AA		GRADE H	GRADE HH	GRADE H	GRADE HH
30 SU 15a	0.23	0.13	0.02	0.02	10 SU 15a	1.64	0.28	0.21	0.09
30 SU 15b	0.37	0.2	0.03	0.03	10 SU 15b	2.63	0.44	0.33	0.15
30 SU 24a	0.75	0.42	0.08	0.07	10 SU 24a	4.77	0.85	0.83	0.38
30 SU 24b	1.21	0.68	0.13	0.11	10 SU 24b	7.76	1.39	1.35	0.61
30 SU 30a	1.25	0.7	0.14	0.13	10 SU 30a	7.5	1.4	1.53	0.69
30 SU 30b	2.03	1.15	0.23	0.21	10 SU 30b	12.24	2.28	2.49	1.13
30 SU 39a	2.55	1.46	0.32	0.29	10 SU 39a	14.3	2.82	3.46	1.57
30 SU 39b	3.98	2.27	0.51	0.46	10 SU 39b	22.31	4.4	5.4	2.45
30 SU 48a	4.46	2.57	0.61	0.55	10 SU 48a	23.65	4.89	6.48	2.95
30 SU 48b	7.05	4.07	0.96	0.87	10 SU 48b	37.38	7.72	10.24	4.66
30 SU 60a	8.34	4.85	1.21	1.09	10 SU 60a	41.68	9.07	12.91	5.87
30 SU 60b	12.61	7.34	1.83	1.65	10 SU 60b	63.06	13.72	19.53	8.88
30 SU 75a	15.82	9.29	2.43	2.19	10 SU 75a	74.96	17.17	25.86	11.76
30 SU 75b	25.32	14.87	3.88	3.5	10 SU 75b	119.94	27.47	41.38	18.81
30 SU 90a	26.04	15.4	4.16	3.74	10 SU 90a	118.3	28.26	44.28	20.13
30 SU 90b	43.7	25.83	6.98	6.28	10 SU 90b	198.51	47.41	74.31	33.78
30 SU 102a	37.75	22.4	6.16	5.55	10 SU 102a	167.27	40.98	65.64	29.84
30 SU 102b	61.07	36.24	9.97	8.97	10 SU 102b	270.58	66.29	106.18	48.27
30 SU 114a	50.99	30.35	8.48	7.63	10 SU 114a	221.1	55.39	90.32	41.05
30 SU 114b	83.62	49.78	13.9	12.51	10 SU 114b	362.61	90.84	148.12	67.33
30 SU 132a	77.35	46.22	13.15	11.83	10 SU 132a	326.84	84.15	140.03	63.65
30 SU 132b	123.58	73.85	21	18.9	10 SU 132b	522.2	134.44	223.73	101.7
30 SU 150a	112.06	67.18	19.37	17.44	10 SU 150a	463.76	122.09	206.38	93.81
30 SU 150b	168.66	101.1	29.16	26.24	10 SU 150b	697.99	183.76	310.61	141.19
30 SU 168a	154.2	92.67	27.03	24.32	10 SU 168a	627.38	168.26	287.91	130.87
30 SU 168b	249.53	149.96	43.74	39.36	10 SU 168b	1015.22	272.27	465.9	211.77
30 SU 180a	193.21	116.28	34.13	30.72	10 SU 180a	778.28	211.02	363.62	165.28
30 SU 180b	241.51	145.36	42.67	38.4	10 SU 180b	972.85	263.78	454.52	206.6
30 SU 180c	289.82	174.43	51.2	46.08	10 SU 180c	1167.42	316.54	545.43	247.92
30 SU 210a	299.7	180.9	53.77	48.39	10 SU 210a	1183.74	328.02	572.78	260.36
30 SU 210b	429.07	258.98	76.98	69.28	10 SU 210b	1694.7	469.61	820.03	372.74
30 SU 210c	558.44	337.07	100.19	90.17	10 SU 210c	2205.67	611.2	1067.27	485.12

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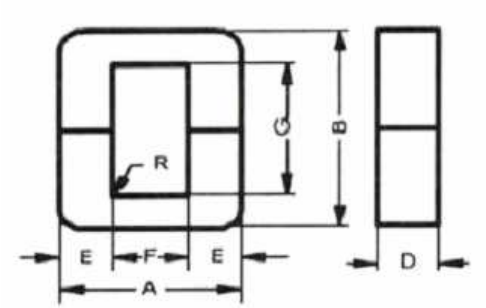
DIMENSIONS & TOLERANCES



Dimensions A and B are maximum tolerance to ensure overall enclosure fit.
Dimensions D and E are a ± tolerance to insure magnetic qualities are maintained under all applications.
Dimensions F and G are minimum tolerance to insure coil fit.

Type		Overall Dimensions (mm)		Strip Width (mm)		Build Up (mm)		Window (mm)		Radius	Length of Flux Path	Effective Core Cross section		Nominal weight (g)	
NFC 93325	HWR BS5347	A	B	D	D	E	E	F	G	R	L_m	A_c		W_t	
		max	max	min	max	min	max	min	min	max	mean	0.30mm	0.10mm	0.30mm	0.10mm
D 06	39541	21	29.4	6.4	6.9	6.4	7.2	6.4	14.3	1	63.2		37.7		18.2
F 08	39572	25.8	35.7	7.9	8.5	7.9	8.7	7.9	17.5		77.7		57.4		34.1
H 10	5/6	30.6	43.7	9.5	10.3	9.5	10.3	9.5	22.2		95.4	85.7	83	62.6	60.6
J 10	39606	32.1	50	9.5	10.3	9.5	10.3	11.1	28.6		111.2	85.7	83	73	70.7
Q 13	39670	30.6	56.4	12.7	13.5	7.9	8.7	12.7	38.1	1.5	127.7	95.3	92.3	93.1	90.2
Q 19	39792			19	19.8							142.6	138.1	139.3	134.9
Q 25	42644			25.4	26.2							190.6	184.6	186.3	180.4
Q 38	45566			38.1	38.9							285.9	276.9	279.4	270.6
T 13	39690	36.9	73	12.7	13.5	9.5	10.3	15.9	50.8		165.2	114.6	111	144.8	140.2
T 19	39812			19	19.8							171.5	166.1	216.7	209.8
T 25	30/16			25.4	26.2							229.2	222	289.6	280.5
T 32	30/20			31.7	32.5							286.1	277.1	361.5	350.1
U 19	40/12	40.1	79.4	19	19.8	9.5	10.3	19	57.2	3	181.7	171.5	166.1	238.3	230.8
U 25	40/16			25.4	26.2							229.2	222	318.6	308.6
U 32	40/20			31.7	32.5							286.1	277.1	397.6	385.1
U 38	40/24			38.1	38.9							343.9	333	477.9	462.8
V 22	50/14	49.6	92.1	22.2	23	12.7	13.5	22.2	63.5		210.6	267.8	259.4	431.6	418
V 29	50/18			28.6	29.4							345.1	334.2	556	538.4
V 38	50/24			38.1	38.9							459.7	445.2	740.7	717.3
V 51	50/32			50.8	51.6							612.9	593.6	987.6	956.4

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Type		Overall Dimensions (mm)		Strip Width (mm)		Build Up (mm)		Window (mm)		Radius	Length of Flux Path	Effective Core Cross section		Nominal weight (g)	
NFC 93325	HWR BS5347	A	B	D	D	E	E	F	G	R	L_m	A_c		W_t	
		max	max	min	max	min	max	min	min	max	mean	0.30mm	0.10mm	0.30mm	0.10mm
X 19	70/12	62.3	111.1	19	19.8	15.9	16.7	28.6	76.2	3	258.7	287	277.9	567.9	550
X 29	70/18			28.6	29.4							432	418.4	854.9	827.9
X 38	70/24			38.1	38.9							575.5	557.3	1138.9	1102.9
X 51	70/32			50.8	51.6							767.3	743.1	1518.5	1470.5
Z 25	90/16	75	130.2	25.4	26.2	19	19.8	34.9	88.9		306.8	458.5	444	1076.1	1042.1
Z 38	90/24			38.1	38.9							687.7	666	1614.1	1563.2
Z 51	90/32			50.8	51.6							916.9	888	2152.2	2084.2
Z 70	90/44			69.8	71.4							1259.9	1220.1	2957.1	2863.7
AD 32	110/20	97.2	169.9	31.7	32.5	25.4	26.2	44.4	114.3		398.1	764.9	740.8	2329.6	2256
AD 51	110/32			50.8	51.6							1225.8	1187.1	3733.2	3615.3
NFC 93325															
AJ 32		123	214	32	33.6	32	33.6	56	145	5	500.5	972.8	942.1	3724.7	3607.1
AJ 51				51	52.6							1550.4	1501.4	5936.3	5748.8
AP 32		153	265	32	33.6	40	41.6	70	180		623.6	1216	1177.6	5801.2	5618
AP 51				51	52.6							1938	1876.8	9245.7	8953.7
AS 51		194.5	337	51	53.4	50	52.4	90	230		797.8	2422.5	2346	14790	14320
AS 70				70	72.4							3325	3220	20290	19650
AS 100				100	102.4							4750	4600	28990	28080
HB 32		249	333	32	34.4	64	66.4	115	196		827.3	1945.6	1884.2	12310	11920
HB 51				51	53.4							3100.8	3002.9	19620	19000
HF 38		256	439	38	40.4	60	62.4	130	310		1072.7	2166	2097.6	17780	17210
HG 38		336	519	38	40.4	100	102.4	130	310		1198.3	3610	3496	33090	32050
HJ 51		298	467	51	53.4	51	53.4	190	356		1256.5	2471	2392.9	23750	23000
HK 51		400	569	51	53.4	102	104.4	190	356		1416.6	4941.9	4785.8	53560	51860
DIN 41309 - SM range															
SM 30a		14.3	28.6	6.5	7.0	3.0	3.5	7.0	21	1.0	66.2	18.5	17.9	9.4	9.1
SM 30b				10.5	11							29.9	29	15.2	14.7
SM 42		21.8	43.6	14.5	15.2	5.2	6	9.5	31	1.5	98.2	71.6	69.4	53.8	52.1
SM 55		28.4	56.3	20	20.8	7.7	8.5	11	38.5		124.3	146.3	141.7	139.1	134.7
SM 65		33.2	65.6	26.2	27	9	9.9	13	45		145.7	224	216.9	249.7	241.8
SM 74		37.7	74.6	31.5	32.5	10.5	11.4	14.5	51		165.4	314.2	304.3	397.6	385.1
SM 85a		43.2	85.6	31.5	32.5	13.4	14.4	14	56	2	183	401	388.3	561.3	543.6

130211_C_Laminations_0801v1

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QLD t. 07 3276 1414 f. 07 3276 1323
SA t. 08 8293 8100 f. 08 8293 8311
WA t. 08 9458 7211 f. 08 9458 7299
TAS t. 03 6423 1176 f. 03 6424 9393

Type DIN 41309 SM Range	Overall Dimensions (mm) A max	Overall Dimensions (mm) B max	Strip Width (mm) D min	Strip Width (mm) D max	Build Up (mm) E min	Build Up (mm) E max	Window (mm) F min	Window (mm) G min	Radius R max	Length of Flux Path L_m mean	Effective Core Cross section A_c 0.30mm	Effective Core Cross section W_t 0.10mm	Nominal weight (g) A max	Nominal weight (g) B max
SM 85b	43.2	85.6	44.5	45.5	13.4	14.4	14	56	2	183	566.5	548.6	793	767.9
SM 102a	51.9	103	34.5	35.5	15.9	16.9	17.5	68		222.4	521.1	504.7	886.7	858.7
SM 102b			51.5	52.6							777.9	753.3	1323.7	1281.9
SE Range														
SE 60	30.5	52.2	19.7	20.5	9.1	9.9	10.5	32	1.5	114.1	170.3	164.9	148.7	144
SE 66	33.5	57.2	21.7	22.5	10.1	10.9	11.5	35		125.3	208.2	201.6	199.5	193.2
SE 78	39.5	68.2	26.1	27	12.1	12.9	13.5	42	2	148.7	300	290.6	341.2	330.4
SE 84a	42.6	73.4	28	29	13.1	13.9	14.5	45		160.1	348.5	337.5	426.8	413.3
SE 84b			42	43							522.7	506.2	640.2	620
SE 92a	46.2	77.6	23	24	10.6	11.4	23	54		187.6	231.6	224.3	332.3	321.8
SE 92b			32	33							322.2	312.1	462.3	447.8
SE 106a	53.2	88.6	32	33	13.6	14.4	24	59		209	413.4	400.4	661	640.1
SE 106b			45	46							581.4	563	929.5	900.1
SE 130a	65.3	108.8	36	37.2	16.5	17.4	30	73		258.7	564.3	546.5	1116.8	1081.5
SE 130b			46	47.2							721	698.3	1427	1381.9
SE 150a	75.2	123.8	40	41.2	18.9	19.8	35	83		296.5	718.2	695.5	1629.2	1577.8
SE 150b			50	51.2							897.8	869.4	2036.5	1972.2
SE 150c			60	61.2							1077.3	1043.3	2443.8	2366.7
SE 170a	85	145.8	54.5	56	21.1	22.1	40	100		346.6	1092.5	1058	2896.9	2805.4
SE 170b			64.5	66							1292.9	1252.1	3428.5	3320.2
SE 170c			74.5	76							1493.4	1446.2	3960	3835
SE 195a	98.2	186.8	55.5	57	26.2	27.3	42.5	130	3	428.9	1381.4	1337.8	4532.1	4389
SE 195b			68.5	70							1705	1651.1	5593.6	5417
SE 195c			83.5	85							2078.3	2012.7	6818.5	6603.2
SE 231a	116.1	216	61.5	63	30.8	32.1	50.5	149		498.8	1799.5	1742.7	6867	6650.2
SE 231b			77.5	79							2267.7	2196	8653.5	8380.3
SE 231c			96.5	98							2823.6	2734.4	10780	10430
DIN 41309 – SU Range														
SU 15a	15	28.7	5	5.4	4.4	4.9	5	18.5	1.5	60.4	20.9	20.2	9.7	9.4
SU 15b			8	8.4							33.4	32.4	15.5	15

130211_C_Laminations_0801v1

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Type	Overall Dimensions (mm)		Strip Width (mm)		Build Up (mm)		Window (mm)		Radius	Length of Flux Path	Effective Core Cross section		Nominal weight (g)	
DIN 41309 SU Range	A	B	D	D	E	E	F	G	R	L_m	A_c	W_t	A	B
	max	max	min	max	min	max	min	min	max	mean	0.30mm	0.10mm	max	max
SU 24a	24	42.7	8	8.5	7.3	7.9	8	26.5	1.5	91.8	55.5	56.7	39	37.7
SU 24b			13	13.5							90.2	87.3	63.3	61.33
SU 30a	30	52.7	9.5	10.1	9.1	9.9	10	32.5		114.1	82.1	79.5	71.7	69.4
SU 30b			15.5	16.1							134	129.8	117	113.3
SU 39a	39.1	67.9	12.5	13.4	12.1	12.9	13	41.5		147.8	143.7	139.2	162.5	157.4
SU 39b			19.5	20.4							224.2	217.1	253.5	245.5
SU 48a	48	82.9	15.5	16.5	14.9	15.8	16	50.5		181.2	219.4	212.5	304.2	294.6
SU 48b			24.5	25.5							346.8	335.9	480.8	465.6
SU 60a	60.1	103.6	19.5	20.6	18.9	19.8	20	63	2	226.2	350.1	339.1	606	586.8
SU 60b			29.5	30.6							529.7	513	916.7	887.7
SU 75a	75	128.6	25	26.1	23.7	24.7	25	78		281.9	562.9	545.1	1213.9	1175.6
SU 75b			40	41.1							900.6	872.2	1942.3	1889
SU 90a	90	155.8	29.5	30.9	28.5	29.6	30	95	3	340.2	798.7	773.5	2078.6	2012.9
SU 90b			49.5	50.9							1340.2	1297.9	3487.8	3377.6
SU 102a	102.4	175.4	34	35.4	32.5	33.7	34	106		383.7	1049.8	1016.6	3081	2983.7
SU 102b			55	56.4							1698.1	1644.5	4984	4826.6
SU 114a	114.4	195.6	37.5	39.2	36.3	37.6	38	118		428.5	1293.2	1252.3	4239.1	4105.3
SU 114b			61.5	63.2							2120.8	2053.9	6952.2	6732.7
SU 132a	132.1	225.4	43.5	45.2	42	43.4	44	136		495	1735.7	1680.8	6572.7	6365.1
SU 132b			69.5	71.2							2773.1	2685.5	10500	10170
SU 150a	150.2	255.6	49.5	51.2	47.9	49.4	50	154		562.2	2252.5	2181.4	9686.9	9381
SU 150b			74.5	76.2							3390.1	3283.1	14580	14120
SU 168a	168.3	286	55	57	53.7	55.3	56	172		629.6	2805.8	2717.2	13510	13090
SU 168b			89	91							4540.3	4397	21870	21180
SU 180a	181.3	307.2	60	62	57.9	59.7	60	184		676	3300.3	3196.1	17070	16530
SU 180b			75	77							4125.4	3995.1	21330	20660
SU 180c			90	92							4950.5	4794.1	25600	24790
SU 210a	211.2	357.2	69.5	71.7	67.6	69.6	70	214		787.4	4463.3	4322.3	26880	26040
SU 210b			99.5	101.7							6389.9	6188.1	38490	37270
SU 210c			129.5	131.7							8316.5	8053.9	50090	48510

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