

COIL WINDING DATA

Mullard VINKOR 45 m.m. Adjustable Rct - Core Assembly

Parts List

Yellow Range

BBC Classification	=	45A
Core No.	=	LA 2004
Complete Assembly No.	=	LA 2005
Housing Assembly No.	=	DT 2152
Clip & board Assembly No.	=	- -
1 Section former No.	=	DT 2013 (Nylon Max. Temp. 130°C) DT 2086 (Polystyrene Max. Temp. 80°C)
Alignment Plug No.	=	DT 2163

The 45 m.m. core can only be assembled in a housing without a printed wiring board tag plate.

Electrical Specifications

Frequency Range	=	100 kHz
Turns for 1 mH	=	24.4

Winding Data for fully wound Former using Enamelled Copper Wire (BS 1844 Fine covering)

S.W.G.	Turns	Resistance Ω	Inductance mH
20	93	0.22	14.53
22	136	0.53	31.06
24	225	1.45	85.04
26	330	3.2	182.9
28	500	7.1	420.0
30	670	13.5	754.1
32	875	23	128.6
34	1210	44	2460
36	1720	93	4968
38	2700	240	12250
40	4150	560	28920

Mullard VINKOR 35 m.m. Adjustable Pot - Core Assembly

Parts List

Yellow Range

BBC Classification	=	35A
Core No.	=	LA 2100
Complete Assembly No.	=	LA 2103
Housing Assembly No.	=	DT 2187
Clip and Board Assembly No.	=	DT 2234 and DT 2233
1 section former No.	=	DT 2012 (Nylon Max. temp. 130°C) DT 2085 (Polystyrene Max. temp. 80°C)
Alignment Plug No.	=	DT 2162

Electrical Specifications

Frequency Range	=	200 kHz
Turns for 1 mH	=	34.3

Winding Data for fully wound Former using Enamelled Copper Wire to BS. 1344 (Fine Covering).

S.W.G.	Turns	Resistance Ω	Inductance mH
20	48	0.088	1.958
22	77	0.23	5.04
24	136	0.68	15.71
26	188	1.4	30.04
28	290	3.2	71.48
30	400	6.4	136.0
32	525	11	234.3
34	720	21	440.6
36	1030	44	901.6
38	1660	115	2342
40	2500	270	5311
42	3500	540	10410
44	5400	1300	24780

Mullard VINKOR 30 m.m. Adjustable Pot - Core Assembly

Parts List

Yellow Range

BBC Classification	=	30A
Core No.	=	LA 2200
Complete Assembly No.	=	LA 2203
Housing Assembly No.	=	DT 2186
Clip and Board Assembly No.	=	DT 2231 and DT 2230
1 section former No.	=	DT 2011 (Nylon Max Temp 130°C) DT 2084 (Polystyrene Max temp. 80°C)
Alignment Plug No.	=	DT 2161

Electrical Specifications

Frequency Range	=	250 kHz
Turns for 1 mH	=	37.5

Winding Data for fully wound former using Enamelled Copper Wire to BS. 1844 (Fine covering).

S.W.G.	Turns	Resistance Ω	Inductance mH
20	28	0.042	0.5577
22	50	0.125	1.778
24	80	0.33	4.552
26	136	0.86	13.15
28	188	1.75	25.14
30	260	3.5	48.08
32	340	6.0	82.22
34	465	11.5	153.8
36	665	24	314.5
38	1070	62	814.3
40	1620	145	1866
42	2250	290	3600
44	3500	710	8714
46	6100	2200	16270

Mullard VINKOR 25 m.m. Adjustable Pot - Core Assembly

Parts List

Yellow Range

BBC Classification	=	25A
Core No.	=	LA 2300
Complete Assembly No.	=	LA 2303
Housing Assembly No.	=	DT 2185
Clip and Board Assembly No.	=	DT 2228 and DT 2227
1 section former No.	=	DT 2010 (Nylon Max. temp. 130°C) DT 2083 (Polystyrene Max. temp. 80°C)
Alignment Plug No.	=	DT 2160

Electrical Specifications

Frequency Range	=	280 kHz
Turns for 1 mH	=	42.5

Winding Data for fully wound former using Enamelled Copper Wire (BS. 1844 Fire Covering).

S.W.G.	Turns	Resistance Ω	Inductance mH
20	24	0.032	0.3188
22	40	0.088	0.8859
24	65	0.23	2.339
26	96	0.51	5.102
28	156	1.25	13.47
30	207	2.4	23.72
32	271	4.1	40.66
34	370	7.8	74.06
36	530	16	155.5
38	855	43	404.8
40	1290	99	921.2
42	1810	200	1813
44	2800	490	4341
46	4850	1500	13020

Mullard VINKOR 21 m.m. Adjustable Pot - Core Assembly

Parts List

Yellow Range

BBC Classification	=	21A
Core No.	=	LA 2400
Complete Assembly No.	=	LA 2403
Housing Assembly No.	=	DT 2184
Clip and Board Assembly	=	DT2225 and DT 2224
1 Section former No.	=	DT 2009 (Nylon Max. Temp. 130°C) DT 2082 (Polystyrene Max. Temp. 80°C)
Alignment Plug No.	=	DT 2159

Electrical Specifications

Frequency Range	=	300 kHz
Turns per mH	=	46.1

Winding Data for fully wound former using Enamelled Copper Wire (BS. 1844 Fine Covering).

S.W.G.	Turns	Resistance Ω	Inductance mH
20	13	0.013	0.0795
22	25	0.050	0.2941
24	44	0.135	0.9112
26	65	0.29	1.988
28	96	0.64	4.337
30	142	1.4	9.488
32	186	2.4	16.28
34	256	4.5	30.83
36	365	9.5	62.69
38	585	25	161.1
40	885	58	358.4
42	1250	115	735.2
44	1940	280	1771
46	3350	870	5279

Mullard VINKOR 18 m.m. Adjustable Pot - Core Assembly

Parts List

Yellow Range

BBC Classification	=	18A
Core No.	=	LA 2500
Complete Assembly No.	=	LA 2503
Housing Assembly No.	=	DT 2183
Clip and Board Assembly No.	=	DT 2222 and DT 2221
1 section former No.	=	DT 2008 (Nylon Max. temp 130°C) DT 2081 (Polystyrene Max. temp. 80°C)
Alignment Plug No.	=	DT 2158

Electrical Specifications

Frequency Range	=	320 kHz
Turns for 1 mH	=	52.5

Winding Data for Fully Wound former using Enamelled Copper Wire (BB. 1844 Fine Covering).

S.W.G.	Turns	Resistance Ω	Inductance mH
20	10	0.009	.03627
22	21	0.033	0.16
24	27	0.066	0.2644
26	44	0.165	0.7025
28	78	0.45	2.207
30	98	0.8	3.483
32	128	1.35	5.943
34	177	2.6	11.37
36	252	5.5	23.03
38	405	14.5	59.51
40	610	33	135
42	860	67	268.3
44	1340	165	651.3
46	2300	500	1919

COPPER WIRE TABLE

D I A M E T E R (Inches)						
S.W.G.		Enamel	Single Silk	Double Silk	Single Cotton	Double Cotton
10	0.128	0.134	-	-	0.136	0.143
12	0.104	0.110	-	-	0.114	0.119
14	0.080	0.085	-	-	0.089	0.095
16	0.064	0.0676	0.068	0.069	0.072	0.077
18	0.048	0.0508	0.0505	0.0515	0.0555	0.0595
20	0.036	0.0385	0.0385	0.0396	0.0425	0.0476
22	0.028	0.0303	0.0303	0.0314	0.0344	0.0394
24	0.022	0.024	0.0238	0.025	0.0272	0.0322
26	0.018	0.0199	0.0195	0.0207	0.0233	0.0283
28	0.0148	0.0164	0.0162	0.0174	0.0198	0.0259
30	0.0124	0.0139	0.0138	0.015	0.0175	0.0226
32	0.0108	0.0121	0.0122	0.0134	0.0159	0.0209
34	0.0092	0.0103	0.0106	0.0118	0.0143	0.0193
36	0.0076	0.0086	0.009	0.0102	0.0117	0.0167
38	0.0060	0.0069	0.0074	0.0089	0.010	0.0147
40	0.0048	0.0056	0.0062	0.0076	0.0089	0.0133
42	0.0040	0.0036	0.0053	0.0063	-	-
44	0.0032	0.0039	0.0045	0.0055	-	-
46	0.0024	0.0030	0.0037	0.0047	-	-