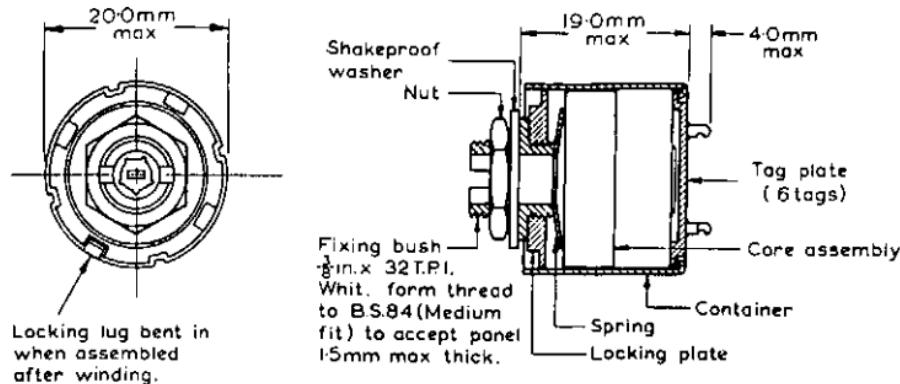


VINKOR ADJUSTABLE POT CORE

LA2504

18mm adjustable pot core specially designed for high quality inductors operating at frequencies up to approximately 100kc/s.

6699



ELECTRICAL AND MAGNETIC PROPERTIES OF CORE ASSEMBLY with adjuster at nominal mid-range position.

Effective permeability	μ_e	*100
Turns for 1mH	α	66.4
Initial permeability of material	μ_i	
Minimum		1000
Typical		1350
Residual plus eddy current dissipation factor measured at: $\tan\delta_{r+e}$		
B max. <0.5 gauss, f = 30kc/s		
Typical		0.36×10^{-3}
Maximum		0.5×10^{-3}
B max. <0.5 gauss, f = 100kc/s		
Typical		0.7×10^{-3}
Maximum		0.9×10^{-3}
Hysteresis factor measured at 4kc/s $F_h = \frac{R}{L} \cdot \frac{1}{I.f\sqrt{L}}$		
Typical		13.3
Maximum		17.7
Temperature coefficient over the range 20 to 50°C	$\frac{\Delta L}{L.\Delta T}$	0 to +200 p.p.m./°C

*Without the adjuster, the effective permeability of the core is $90.0 \pm 3\%$.

GENERAL NOTES

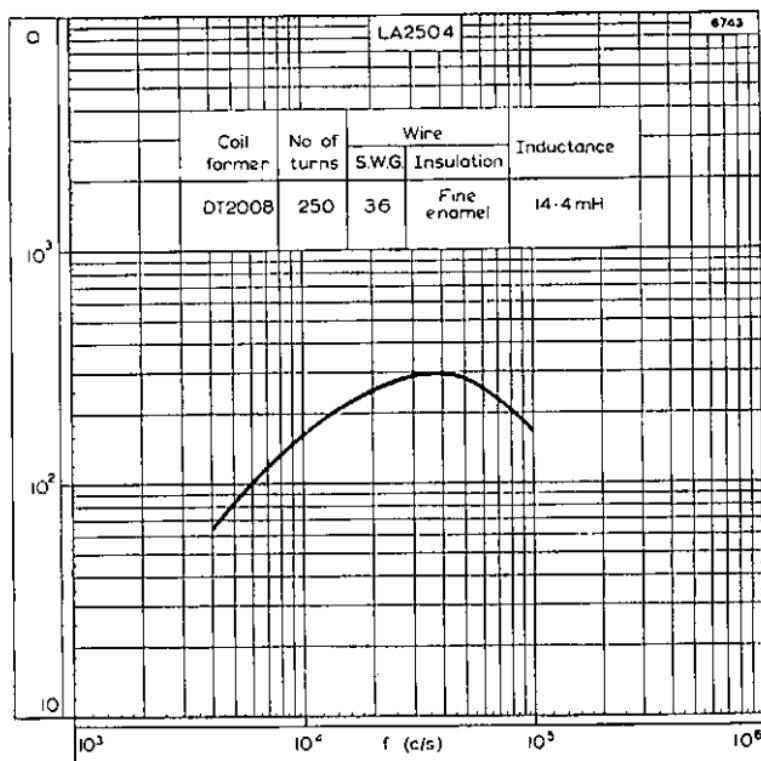
Coil formers are not supplied with the Vinkor but should be ordered separately. For details see page 3.

For correct assembly and adjustment of piece parts use aligning plug type DT2032. See separate data sheet.

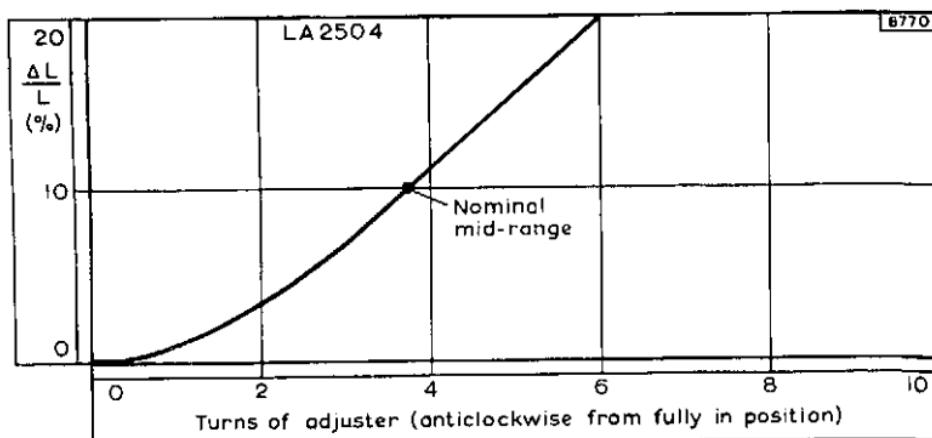
Non-magnetic screwdriver type DT2047 should be used for precise adjustment of inductance.

LA2504

VINKOR ADJUSTABLE
POT CORE

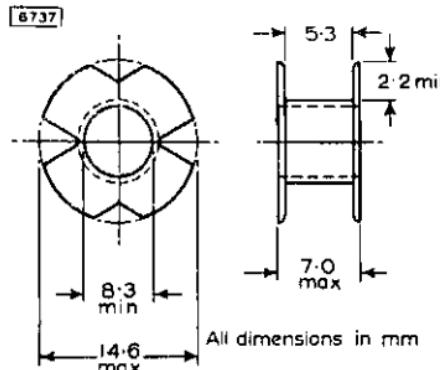


TYPICAL Q CURVE



ADJUSTMENT CURVE





Single section coil former

DT2008—nylon, maximum working temperature = 130°C.

DT2081—polystyrene, maximum working temperature = 80°C.

The nylon is a low water absorbent grade.

Nominal winding area = 13.6mm².

**WINDING DATA FOR FULLY WOUND FORMER
ENAMELLED COPPER WIRE TO B.S.1844 (FINE COVERING)**

S.W.G.	Cu. dia. (in.)	Turns	Resistance (Ω)
20	0.036	10	0.009
21	0.032	12	0.014
22	0.028	21	0.033
23	0.024	24	0.050
24	0.022	27	0.066
25	0.020	38	0.115
26	0.018	44	0.165
27	0.0164	60	0.28
28	0.0148	78	0.45
29	0.0136	87	0.58
30	0.0124	98	0.80
31	0.0116	113	1.05
32	0.0108	128	1.35
33	0.0100	149	1.85
34	0.0092	177	2.6
35	0.0084	208	3.7
36	0.0076	252	5.5
37	0.0068	305	8.3
38	0.0060	405	14.5
39	0.0052	520	24
40	0.0048	610	33
41	0.0044	710	46
42	0.0040	860	67
43	0.0036	1090	105
44	0.0032	1340	165
45	0.0028	1740	280
46	0.0024	2300	500
47	0.0020	3350	1050

WINDING DATA FOR FULLY WOUND FORMER

**SILK COVERED BUNCHED ENAMELLED COPPER CONDUCTORS
TO B.S.1258**

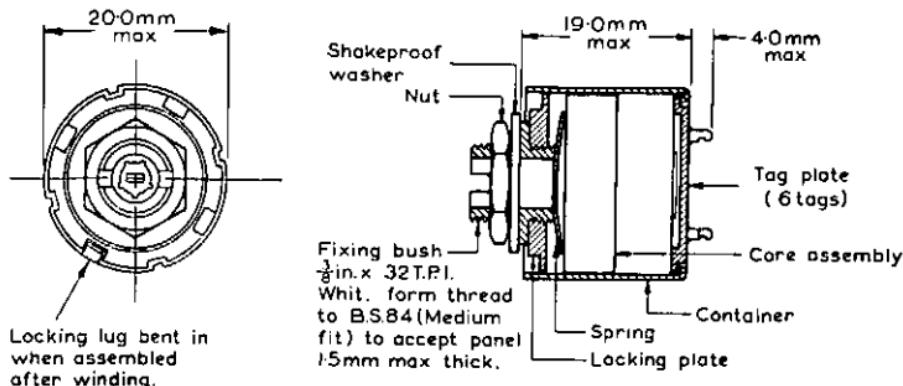
Strands	S.W.G.	Strand dia. (in.)	Insulation	Turns	Resistance (Ω)
315	48	0.0016	D.S.C.	9	0.014
81	44	0.0032	D.S.C.	9	0.014
280	48	0.0016	D.S.C.	9	0.016
252	48	0.0016	D.S.C.	9	0.017
81	45	0.0028	D.S.C.	10	0.020
224	48	0.0016	D.S.C.	10	0.022
200	48	0.0016	D.S.C.	11	0.027
180	48	0.0016	D.S.C.	11	0.030
48	44	0.0032	D.S.C.	12	0.030
160	48	0.0016	D.S.C.	12	0.036
140	48	0.0016	D.S.C.	19	0.066
30	43	0.0036	S.S.C.	21	0.067
81	47	0.0020	D.S.C.	22	0.084
30	44	0.0032	S.S.C.	24	0.097
100	48	0.0016	D.S.C.	24	0.115
30	45	0.0028	S.S.C.	36	0.19
81	48	0.0016	D.S.C.	36	0.22
30	46	0.0024	S.S.C.	40	0.29
19	45	0.0028	S.S.C.	55	0.46
30	47	0.0020	S.S.C.	62	0.64
7	42	0.0040	S.S.C.	81	0.9
10	45	0.0028	S.S.C.	87	1.4
9	45	0.0028	S.S.C.	108	1.9
7	45	0.0028	S.S.C.	148	3.3
3	44	0.0032	S.S.C.	220	8.9
3	46	0.0024	S.S.C.	297	21

VINKOR ADJUSTABLE POT CORE

LA2505

18mm adjustable pot core specially designed for high quality inductors operating at frequencies up to approximately 200kc/s.

5699



ELECTRICAL AND MAGNETIC PROPERTIES OF CORE ASSEMBLY with adjuster at nominal mid-range position.

Effective permeability	μ_e	*63
Turns for 1mH	α	83.6
Initial permeability of material	μ_i	
Minimum		1000
Typical		1350
Residual plus eddy current dissipation factor measured at:	$\tan\delta_{r+e}$	
B max. <0.5 gauss, f = 30kc/s		
Typical		0.23×10^{-3}
Maximum		0.32×10^{-3}
B max. <0.5 gauss, f = 100kc/s		
Typical		0.44×10^{-3}
Maximum		0.58×10^{-3}
Hysteresis factor measured at 4kc/s	$F_h = \frac{R}{L} \cdot \frac{1}{I.f\sqrt{L}}$	
Typical		6.6
Maximum		8.84
Temperature coefficient over the range 20 to 50°C	$\frac{\Delta L}{L \cdot \Delta T}$	0 to +126 p.p.m./°C

*Without the adjuster, the effective permeability of the core is $58.0 \pm 2\%$.

GENERAL NOTES

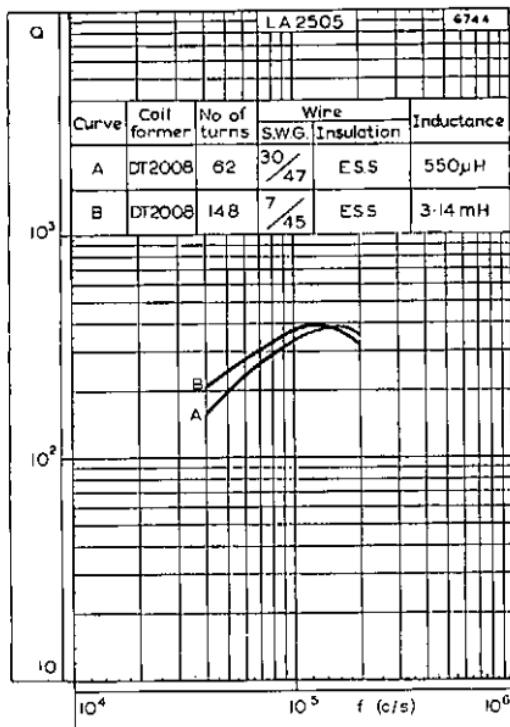
Coil formers are not supplied with the Vinkor but should be ordered separately. For details see page 3.

For correct assembly and adjustment of piece parts use aligning plug type DT2032. See separate data sheets.

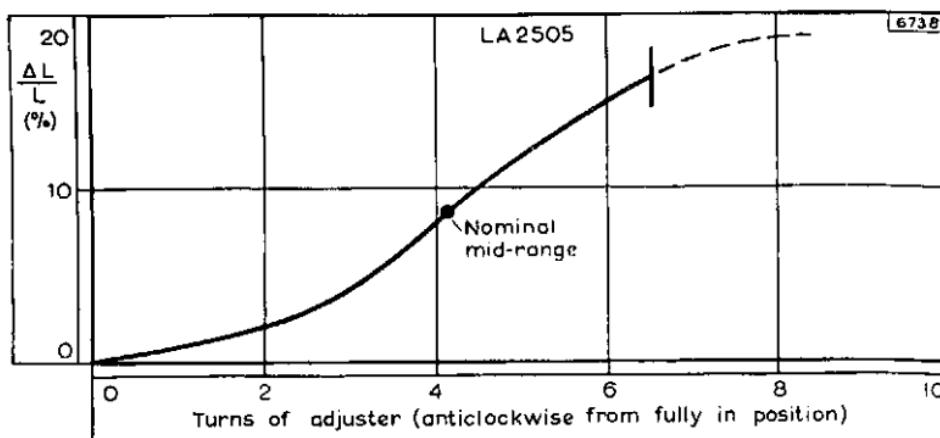
Non-magnetic screwdriver type DT2047 should be used for precise adjustment of inductance.

LA2505

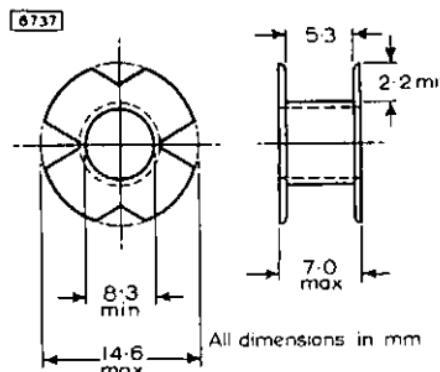
VINKOR ADJUSTABLE
POT CORE



TYPICAL Q CURVES



ADJUSTMENT CURVE



Single section coil former

DT2008—nylon, maximum working temperature = 130°C.

DT2081—polystyrene, maximum working temperature = 80°C.

The nylon is a low water absorbent grade.

Nominal winding area = 13.6mm².

**WINDING DATA FOR FULLY WOUND FORMER
ENAMELLED COPPER WIRE TO B.S.1844 (FINE COVERING)**

S.W.G.	Cu. dia. (in.)	Turns	Resistance (Ω)
20	0.036	10	0.009
21	0.032	12	0.014
22	0.028	21	0.033
23	0.024	24	0.050
24	0.022	27	0.066
25	0.020	38	0.115
26	0.018	44	0.165
27	0.0164	60	0.28
28	0.0148	78	0.45
29	0.0136	87	0.58
30	0.0124	98	0.80
31	0.0116	113	1.05
32	0.0108	128	1.35
33	0.0100	149	1.85
34	0.0092	177	2.6
35	0.0084	208	3.7
36	0.0076	252	5.5
37	0.0068	305	8.3
38	0.0060	405	14.5
39	0.0052	520	24
40	0.0048	610	33
41	0.0044	710	46
42	0.0040	860	67
43	0.0036	1090	105
44	0.0032	1340	165
45	0.0028	1740	280
46	0.0024	2300	500
47	0.0020	3350	1050



WINDING DATA FOR FULLY WOUND FORMER

SILK COVERED BUNCHED ENAMELLED COPPER CONDUCTORS
TO B.S.1258

Strands	S.W.G.	Strand dia. (in.)	Insulation	Turns	Resistance (Ω)
315	48	0.0016	D.S.C.	9	0.014
81	44	0.0032	D.S.C.	9	0.014
280	48	0.0016	D.S.C.	9	0.016
252	48	0.0016	D.S.C.	9	0.017
81	45	0.0028	D.S.C.	10	0.020
224	48	0.0016	D.S.C.	10	0.022
200	48	0.0016	D.S.C.	11	0.027
180	48	0.0016	D.S.C.	11	0.030
48	44	0.0032	D.S.C.	12	0.030
160	48	0.0016	D.S.C.	12	0.036
140	48	0.0016	D.S.C.	19	0.066
30	43	0.0036	S.S.C.	21	0.067
81	47	0.0020	D.S.C.	22	0.084
30	44	0.0032	S.S.C.	24	0.097
100	48	0.0016	D.S.C.	24	0.115
30	45	0.0028	S.S.C.	36	0.19
81	48	0.0016	D.S.C.	36	0.22
30	46	0.0024	S.S.C.	40	0.29
19	45	0.0028	S.S.C.	55	0.46
30	47	0.0020	S.S.C.	62	0.64
7	42	0.0040	S.S.C.	81	0.9
10	45	0.0028	S.S.C.	87	1.4
9	45	0.0028	S.S.C.	108	1.9
7	45	0.0028	S.S.C.	148	3.3
3	44	0.0032	S.S.C.	220	8.9
3	46	0.0024	S.S.C.	297	21

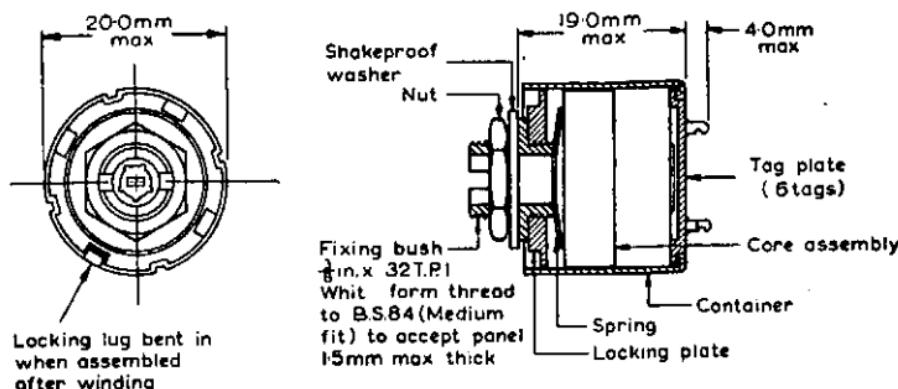
VINKOR ADJUSTABLE POT CORE

LA2509

18mm adjustable pot core specially designed for high quality inductors operating at frequencies up to approximately 700kc/s.

PRELIMINARY DATA

[6699]



Dimensions of hexagonal nut are 0.5in. max. across the flats, 0.1in. max. thickness.

ELECTRICAL AND MAGNETIC PROPERTIES OF CORE ASSEMBLY

with adjuster at nominal mid-range position.

Effective permeability	μ_e	*63
Turns for 1mH	α	83.6
Initial permeability of material	μ_i	
Minimum		600
Residual plus eddy current		
dissipation factor	$\tan\delta_{r+e}$	
Typical values measured at;		
B max. <0.5 gauss, f=100kc/s		0.55×10^{-3}
B max. <0.5 gauss, f=1Mc/s		1.75×10^{-3}

$$\text{Hysteresis factor measured at } 100\text{kc/s } F_h = \frac{R}{L} \cdot \frac{1}{I.f \sqrt{L}}$$

Maximum 8.9

Temperature coefficient over the range 20 to 50°C $\frac{\Delta L}{L, \Delta T}$ 0 to +158 ppm/°C

*Without the adjuster, the effective permeability of the core is 58.0 ± 2%.

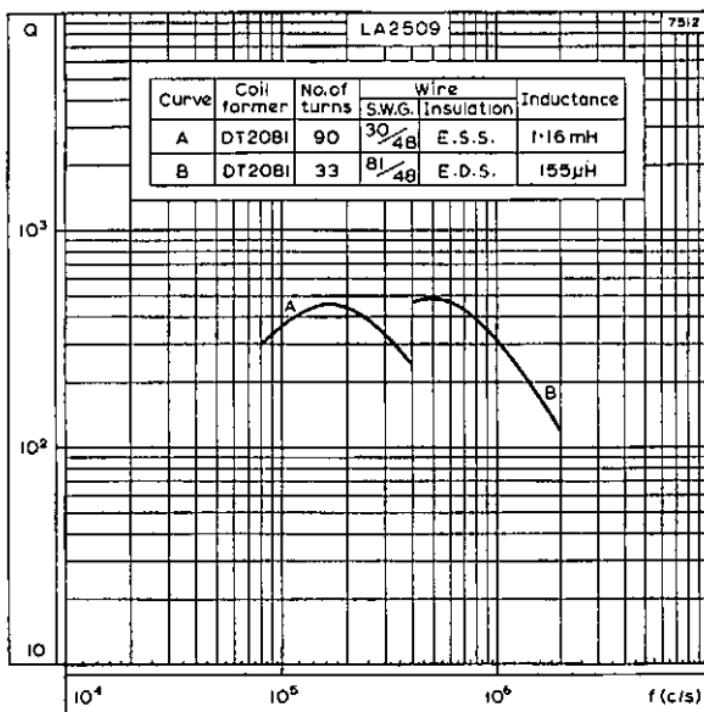
GENERAL NOTES

Coil formers are not supplied with the Vinkor but should be ordered separately. For details see pages 3 and 4.

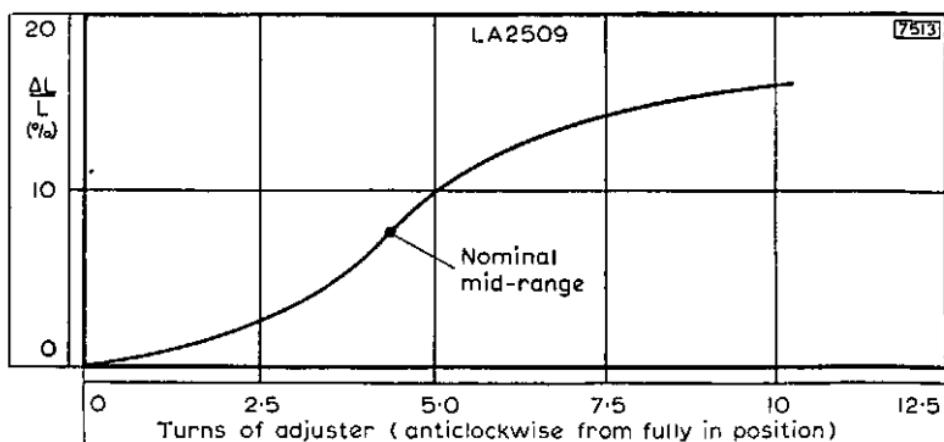
For correct assembly and adjustment of piece parts use aligning plug type DT2032. See separate data sheet.

Non-magnetic screwdriver type DT2047 should be used for precise adjustment of inductance.

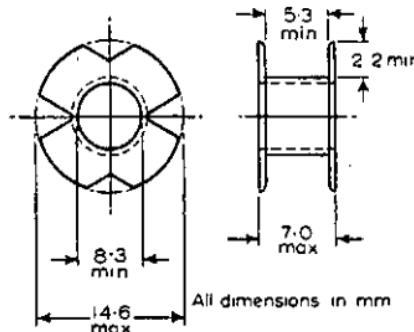




TYPICAL Q CURVES



ADJUSTMENT CURVE



2863

Single section coil former

DT2008—nylon, maximum working temperature=130°C

DT2081—polystyrene, maximum working temperature=80°C.

The nylon is of a low water absorbent grade.

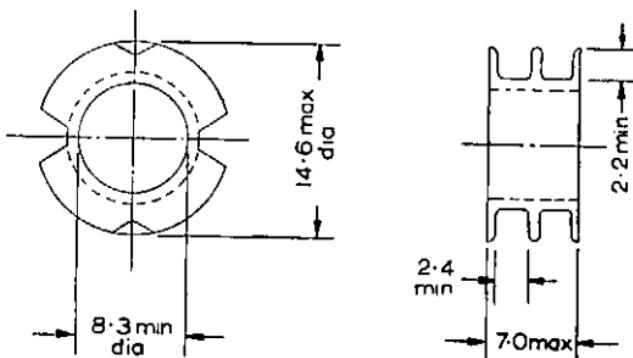
**WINDING DATA FOR FULLY WOUND FORMER
ENAMELLED COPPER WIRE TO B.S.1844 (FINE COVERING)**

S.W.G.	Cu. dia. (in.)	Turns	Resistance (Ω)
20	0.036	10	0.009
21	0.032	12	0.014
22	0.028	21	0.033
23	0.024	24	0.050
24	0.022	27	0.066
25	0.020	38	0.115
26	0.018	44	0.165
27	0.0164	60	0.28
28	0.0148	78	0.45
29	0.0136	87	0.58
30	0.0124	98	0.80
31	0.0116	113	1.05
32	0.0108	128	1.35
33	0.0100	149	1.85
34	0.0092	177	2.6
35	0.0084	208	3.7
36	0.0076	252	5.5
37	0.0068	305	8.3
38	0.0060	405	14.5
39	0.0052	520	24
40	0.0048	610	33
41	0.0044	710	46
42	0.0040	860	67
43	0.0036	1090	105
44	0.0032	1340	165
45	0.0028	1740	280
46	0.0024	2300	500
47	0.0020	3350	1050

WINDING DATA FOR FULLY WOUND FORMER SILK COVERED
BUNCHED ENAMELLED COPPER CONDUCTORS TO B.S. 1258

Strands	S.W.G.	Strand dia. (in.)	Insulation	Turns	Resistance (Ω)
315	48	0.0016	D.S.C.	9	0.014
81	44	0.0032	D.S.C.	9	0.014
280	48	0.0016	D.S.C.	9	0.016
252	48	0.0016	D.S.C.	9	0.017
81	45	0.0028	D.S.C.	10	0.02
224	48	0.0016	D.S.C.	10	0.022
200	48	0.0016	D.S.C.	11	0.027
180	48	0.0016	D.S.C.	11	0.03
48	44	0.0032	D.S.C.	12	0.03
160	48	0.0016	D.S.C.	12	0.036
140	48	0.0016	D.S.C.	19	0.066
30	43	0.0036	S.S.C.	21	0.067
81	47	0.002	D.S.C.	22	0.084
30	44	0.0032	S.S.C.	24	0.097
100	48	0.0016	D.S.C.	24	0.115
30	45	0.0028	S.S.C.	36	0.19
81	48	0.0016	D.S.C.	36	0.22
30	46	0.0024	S.S.C.	40	0.29
19	45	0.0028	S.S.C.	55	0.46
30	47	0.002	S.S.C.	62	0.64
7	42	0.004	S.S.C.	81	0.9
10	45	0.0028	S.S.C.	87	1.4
9	45	0.0028	S.S.C.	108	1.9
7	45	0.0028	S.S.C.	148	3.3
3	44	0.0032	S.S.C.	220	8.9
3	46	0.0024	S.S.C.	297	21

Multi-section coil former



7275

All dimensions in mm

2 sections DT2059—nylon, maximum working temperature=130°C.
 DT2073—polystyrene, maximum working temperature=80°C.
 The nylon is of a low water absorbent grade.

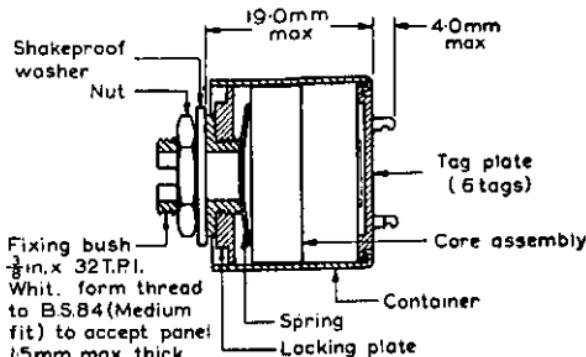
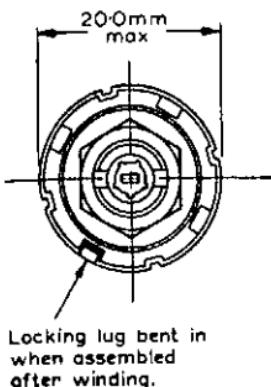
VINKOR ADJUSTABLE POT CORE

18mm adjustable pot core specially designed for high quality inductors operating at frequencies up to approximately 2Mc/s.

LA2510

PRELIMINARY DATA

[6699]



Dimensions of hexagonal nut are 0.5in. max. across the flats, 0.1in. max. thickness.

ELECTRICAL AND MAGNETIC PROPERTIES OF CORE ASSEMBLY

with adjuster at nominal mid-range position.

Effective permeability	μ_e	*40
Turns for 1mH	α	105
Initial permeability of material	μ_i	
Minimum		600
Residual plus eddy current dissipation factor	$\tan\delta_{r+e}$	
Typical values measured at;		
B max. <0.5 gauss, f=100kc/s		0.35×10^{-3}
B max. <0.5 gauss, f=1Mc/s		1.1×10^{-3}

$$\text{Hysteresis factor measured at } 100\text{kc/s } F_h = \frac{R}{L} \cdot \frac{1}{I_f \sqrt{L}}$$

Maximum 4.5

$$\text{Temperature coefficient over the range } 20 \text{ to } 50^\circ\text{C } \frac{\Delta L}{L \cdot \Delta T} \quad 0 \text{ to } +100 \text{ ppm}/^\circ\text{C}$$

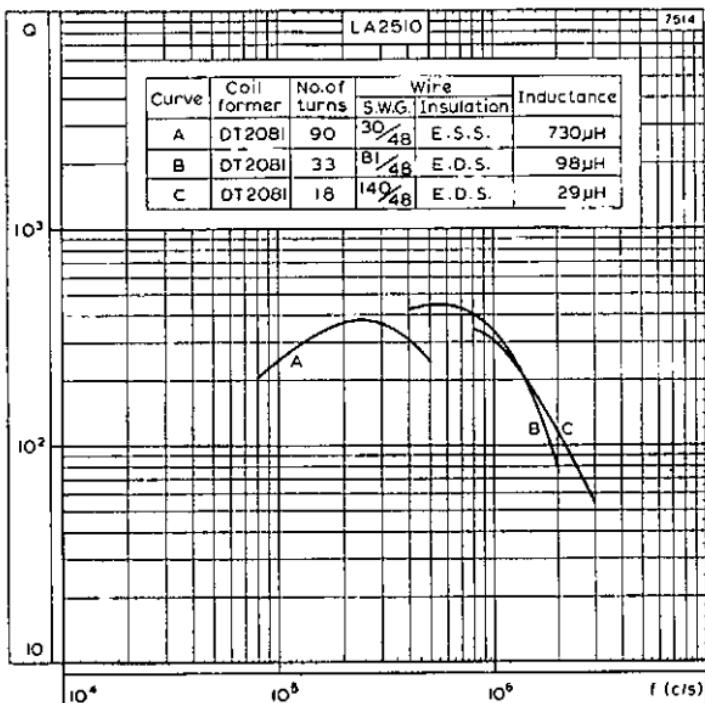
*Without the adjuster, the effective permeability of the core is $35.9 \pm 2\%$.

GENERAL NOTES

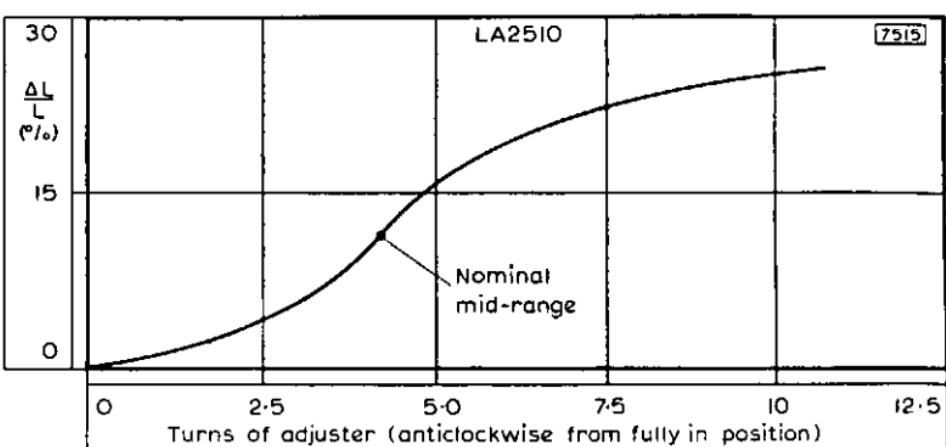
Coil formers are not supplied with the Vinkor but should be ordered separately. For details see pages 3 and 4.

For correct assembly and adjustment of piece parts use aligning plug type DT2032. See separate data sheet.

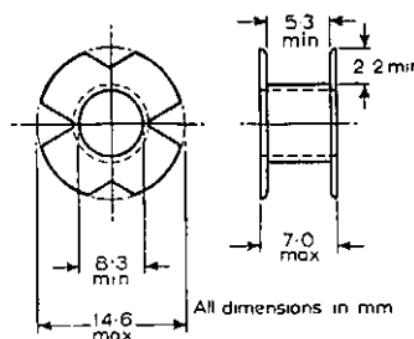
Non-magnetic screwdriver type DT2047 should be used for precise adjustment of inductance.



TYPICAL Q CURVES



ADJUSTMENT CURVE



[7863]

Single section coil former

DT2008—nylon, maximum working temperature=130°C.

DT2081—polystyrene, maximum working temperature=80°C.
The nylon is of a low water absorbent grade.

**WINDING DATA FOR FULLY WOUND FORMER
ENAMELLED COPPER WIRE TO B.S.1844 (FINE COVERING)**

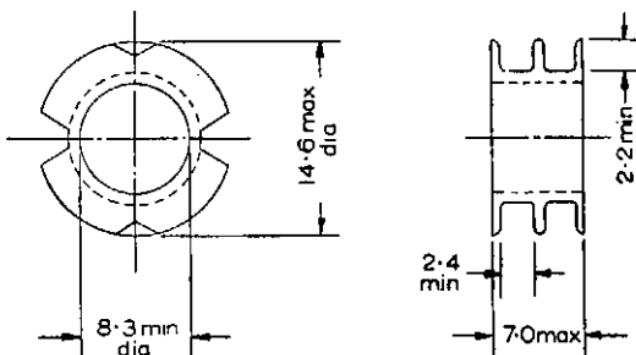
S.W.G.	Cu. dia. (in.)	Turns	Resistance (Ω)
20	0.036	10	0.009
21	0.032	12	0.014
22	0.028	21	0.033
23	0.024	24	0.050
24	0.022	27	0.066
25	0.020	38	0.115
26	0.018	44	0.165
27	0.0164	60	0.28
28	0.0148	78	0.45
29	0.0136	87	0.58
30	0.0124	98	0.80
31	0.0116	113	1.05
32	0.0108	128	1.35
33	0.0100	149	1.85
34	0.0092	177	2.6
35	0.0084	208	3.7
36	0.0076	252	5.5
37	0.0068	305	8.3
38	0.0060	405	14.5
39	0.0052	520	24
40	0.0048	610	33
41	0.0044	710	46
42	0.0040	860	67
43	0.0036	1090	105
44	0.0032	1340	165
45	0.0028	1740	280
46	0.0024	2300	500
47	0.0020	3350	1050



WINDING DATA FOR FULLY WOUND FORMER SILK COVERED BUNCHED ENAMELLED COPPER CONDUCTORS TO B.S. 1258

Strands	S.W.G.	Strand dia. (in.)	Insulation	Turns	Resistance (Ω)
315	48	0.0016	D.S.C.	9	0.014
81	44	0.0032	D.S.C.	9	0.014
280	48	0.0016	D.S.C.	9	0.016
252	48	0.0016	D.S.C.	9	0.017
81	45	0.0028	D.S.C.	10	0.02
224	48	0.0016	D.S.C.	10	0.022
200	48	0.0016	D.S.C.	11	0.027
180	48	0.0016	D.S.C.	11	0.03
48	44	0.0032	D.S.C.	12	0.03
160	48	0.0016	D.S.C.	12	0.036
140	48	0.0016	D.S.C.	19	0.066
30	43	0.0036	S.S.C.	21	0.067
81	47	0.002	D.S.C.	22	0.084
30	44	0.0032	S.S.C.	24	0.097
100	48	0.0016	D.S.C.	24	0.115
30	45	0.0028	S.S.C.	36	0.19
81	48	0.0016	D.S.C.	36	0.22
30	46	0.0024	S.S.C.	40	0.29
19	45	0.0028	S.S.C.	55	0.46
30	47	0.002	S.S.C.	62	0.64
7	42	0.004	S.S.C.	81	0.9
10	45	0.0028	S.S.C.	87	1.4
9	45	0.0028	S.S.C.	108	1.9
7	45	0.0028	S.S.C.	148	3.3
3	44	0.0032	S.S.C.	220	8.9
3	46	0.0024	S.S.C.	297	21

Multi-section coil former



7275

All dimensions in mm

2 sections DT 2059—nylon, maximum working temperature=130°C.
DT 2073—polystyrene, maximum working temperature=80°C.
The nylon is of a low water absorbent grade.



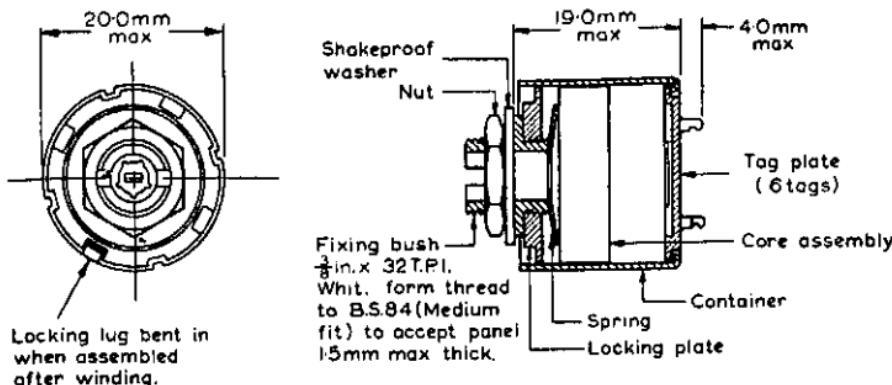
VINKOR ADJUSTABLE POT CORE

LA25II

18mm adjustable pot core specially designed for high quality inductors operating at frequencies up to approximately 3Mc/s.

PRELIMINARY DATA

6699



Dimensions of hexagonal nut are 0.5in. max. across the flats, 0.1in. max. thickness.

ELECTRICAL AND MAGNETIC PROPERTIES OF CORE ASSEMBLY

with adjuster at nominal mid-range position.

Effective permeability	μ_e	*25
Turns for 1mH	α	142
Initial permeability of material	μ_i	
Minimum		600
Residual plus eddy current dissipation factor	$\tan\delta_{r+e}$	
Typical values measured at:		
B max. <0.5 gauss, f=100kc/s		0.23×10^{-3}
B max. <0.5 gauss, f=1Mc/s		0.71×10^{-3}

Hysteresis factor measured at 100kc/s $F_h = \frac{R}{L} \cdot \frac{1}{I.f\sqrt{L}}$

Maximum 2.3

Temperature coefficient over the range 20 to 50°C $\frac{\Delta L}{L.\Delta T}$ 0 to +62.5 ppm/°C

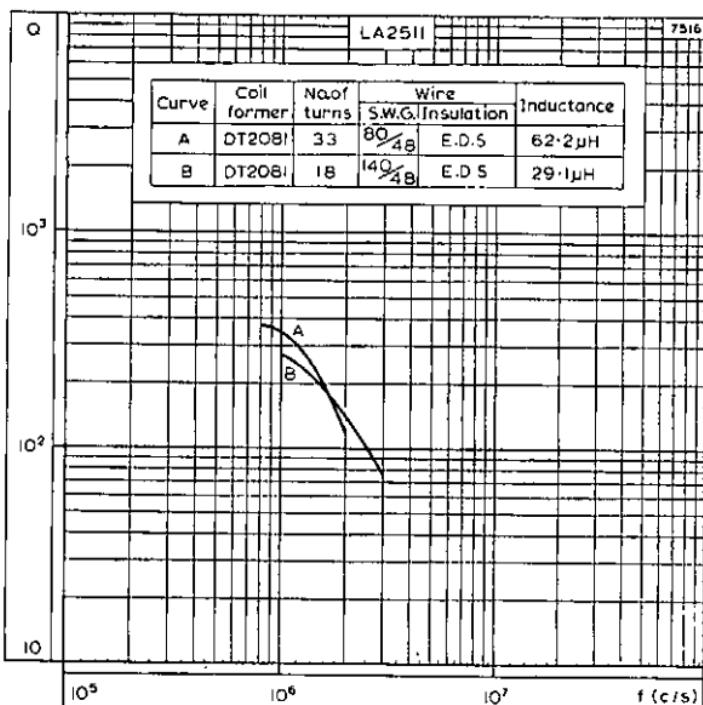
*Without the adjuster, the effective permeability of the core is $22.1 \pm 3\%$.

GENERAL NOTES

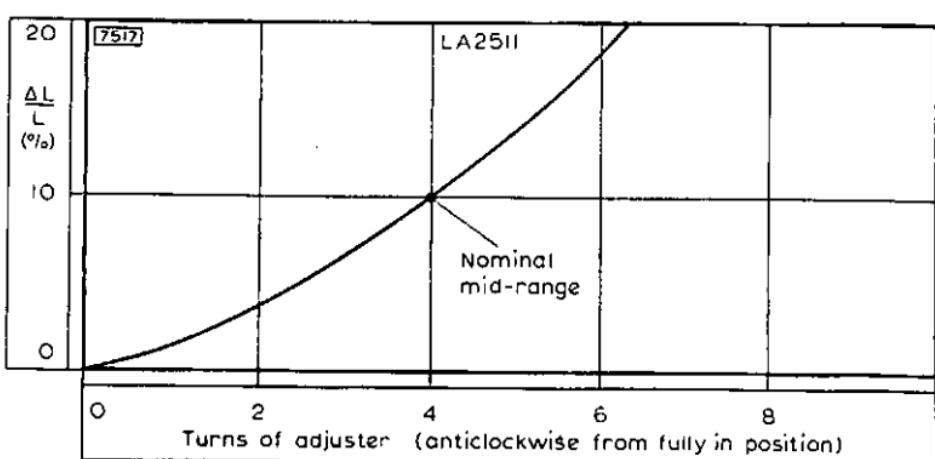
Coil formers are not supplied with the Vinkor but should be ordered separately. For details see pages 3 and 4.

For correct assembly and adjustment of piece parts use aligning plug type DT2032. See separate data sheet.

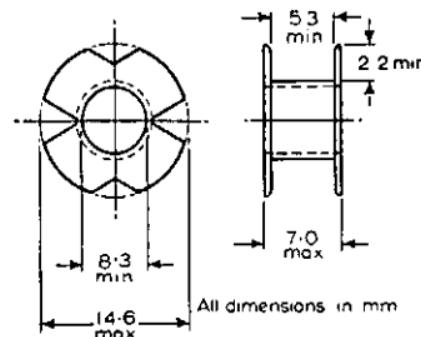
Non-magnetic screwdriver type DT2047 should be used for precise adjustment of inductance.



TYPICAL Q CURVES



ADJUSTMENT CURVE



[7863]

Single section coil former

DT2008—nylon, maximum working temperature = 130°C.

DT2081—polystyrene, maximum working temperature = 80°C.

The nylon is of a low water absorbent grade.

**WINDING DATA FOR FULLY WOUND FORMER
ENAMELLED COPPER WIRE TO B.S.1844 (FINE COVERING)**

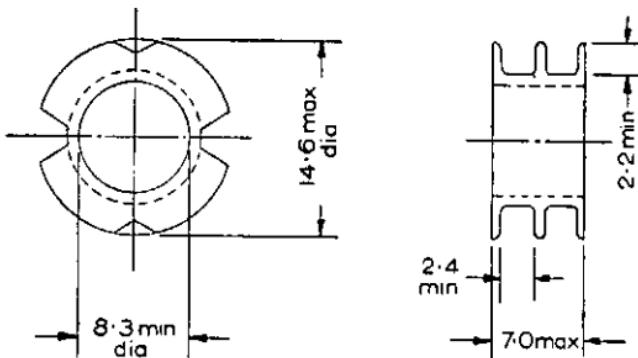
S.W.G.	Cu. dia. (in.)	Turns	Resistance (Ω)
20	0.036	10	0.009
21	0.032	12	0.014
22	0.028	21	0.033
23	0.024	24	0.050
24	0.022	27	0.066
25	0.020	38	0.115
26	0.018	44	0.165
27	0.0164	60	0.28
28	0.0148	78	0.45
29	0.0136	87	0.58
30	0.0124	98	0.80
31	0.0116	113	1.05
32	0.0108	128	1.35
33	0.0100	149	1.85
34	0.0092	177	2.6
35	0.0084	208	3.7
36	0.0076	252	5.5
37	0.0068	305	8.3
38	0.0060	405	14.5
39	0.0052	520	24
40	0.0048	610	33
41	0.0044	710	46
42	0.0040	860	67
43	0.0036	1090	105
44	0.0032	1340	165
45	0.0028	1740	280
46	0.0024	2300	500
47	0.0020	3350	1050



WINDING DATA FOR FULLY WOUND FORMER SILK COVERED
BUNCHED ENAMELLED COPPER CONDUCTORS TO B.S. 1258

Strands	S.W.G.	Strand dia. (in.)	Insulation	Turns	Resistance (Ω)
315	48	0.0016	D.S.C.	9	0.014
81	44	0.0032	D.S.C.	9	0.014
280	48	0.0016	D.S.C.	9	0.016
252	48	0.0016	D.S.C.	9	0.017
81	45	0.0028	D.S.C.	10	0.02
224	48	0.0016	D.S.C.	10	0.022
200	48	0.0016	D.S.C.	11	0.027
180	48	0.0016	D.S.C.	11	0.03
48	44	0.0032	D.S.C.	12	0.03
160	48	0.0016	D.S.C.	12	0.036
140	48	0.0016	D.S.C.	19	0.066
30	43	0.0036	S.S.C.	21	0.067
81	47	0.002	D.S.C.	22	0.084
30	44	0.0032	S.S.C.	24	0.097
100	48	0.0016	D.S.C.	24	0.115
30	45	0.0028	S.S.C.	36	0.19
81	48	0.0016	D.S.C.	36	0.22
30	46	0.0024	S.S.C.	40	0.29
19	45	0.0028	S.S.C.	55	0.46
30	47	0.002	S.S.C.	62	0.64
7	42	0.004	S.S.C.	81	0.9
10	45	0.0028	S.S.C.	87	1.4
9	45	0.0028	S.S.C.	108	1.9
7	45	0.0028	S.S.C.	148	3.3
3	44	0.0032	S.S.C.	220	8.9
3	46	0.0024	S.S.C.	297	21

Multi-section coil former



7275

All dimensions in mm

2 sections DT 2059—nylon, maximum working temperature=130°C.
 DT 2073—polystyrene, maximum working temperature=80°C.
 The nylon is of a low water absorbent grade.

