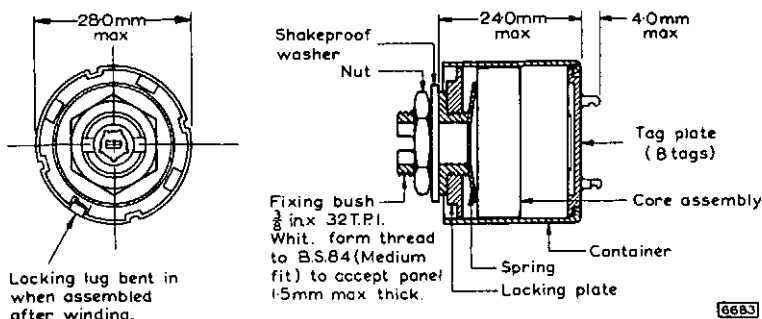


# VINKOR ADJUSTABLE POT CORE

# LA2303

25mm adjustable pot core specially designed for high quality inductors operating at frequencies up to approximately 40kc/s.



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

## ELECTRICAL AND MAGNETIC PROPERTIES OF CORE ASSEMBLY

with adjuster at nominal mid-range position.

Effective permeability	$\mu_e$	*160
Turns for 1mH	$\alpha$	42.5
Initial permeability of material	$\mu_i$	
Minimum		1000
Typical		1400
Residual plus eddy current dissipation factor measured at:	$\tan \delta_{r+e}$	
B max. < 0.5 gauss, f = 30kc/s		
Typical		$0.6 \times 10^{-3}$
Maximum		$0.8 \times 10^{-3}$
B max. < 0.5 gauss, f = 100kc/s		
Typical		$1.2 \times 10^{-3}$
Maximum		$1.6 \times 10^{-3}$
Hysteresis factor measured at 4 kc/s	$F_h = \frac{R}{L} \cdot \frac{1}{1.4\sqrt{L}}$	
Typical		16.3
Maximum		19.6
Temperature coefficient over the range 20 to 50°C	$\frac{\Delta L}{L \cdot \Delta T}$	0 to +320 p.p.m./°C

\*Without the adjuster, the effective permeability of the core is  $146.5 \pm 3\%$ .

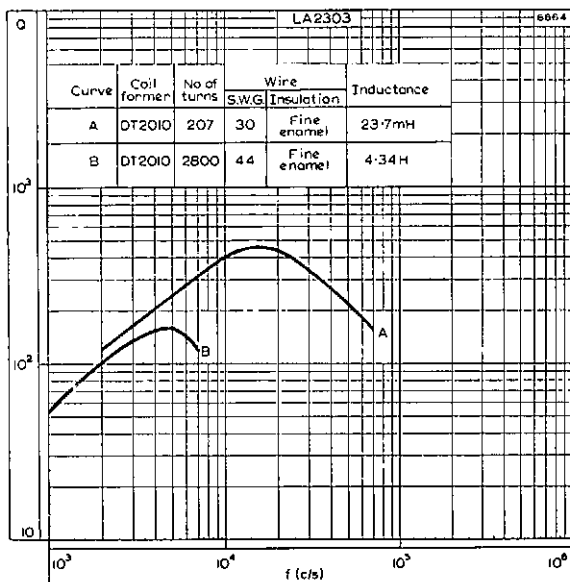
## GENERAL NOTES

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

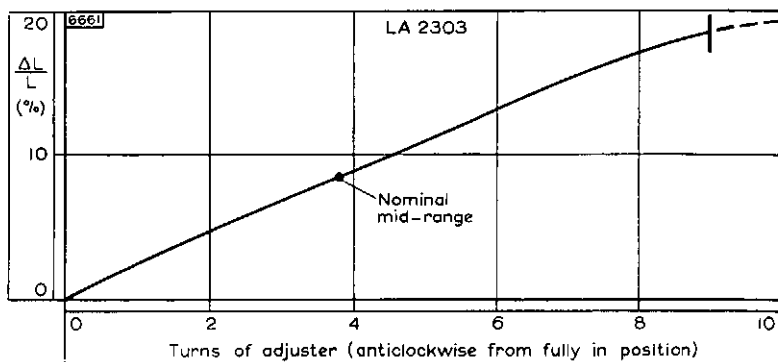
For correct assembly and alignment of piece parts use aligning plug type DT2034. See separate data sheet.

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

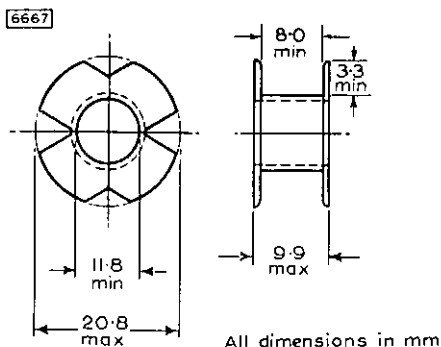




**TYPICAL Q CURVES**



**ADJUSTMENT CURVE**



Single section coil former

DT2010—nylon, maximum working temperature = 130°C.

DT2083—polystyrene, maximum working temperature = 80°C.

The nylon is a low water absorbent grade. Nominal winding area = 29.6mm<sup>2</sup>.

**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	24	0.032
21	0.032	27	0.044
22	0.028	40	0.088
23	0.024	60	0.185
24	0.022	65	0.23
25	0.020	87	0.38
26	0.018	96	0.51
27	0.0164	122	0.79
28	0.0148	156	1.25
29	0.0136	168	1.55
30	0.0124	207	2.4
31	0.0116	238	3.1
32	0.0108	271	4.1
33	0.0100	310	5.5
34	0.0092	370	7.8
35	0.0084	435	11
36	0.0076	530	16
37	0.0068	645	25
38	0.0060	855	43
39	0.0052	1100	72
40	0.0048	1290	99
41	0.0044	1500	135
42	0.0040	1810	200
43	0.0036	2250	310
44	0.0032	2800	490
45	0.0028	3650	830
46	0.0024	4850	1500
47	0.0020	7100	3100

## WINDING DATA FOR FULLY WOUND FORMER

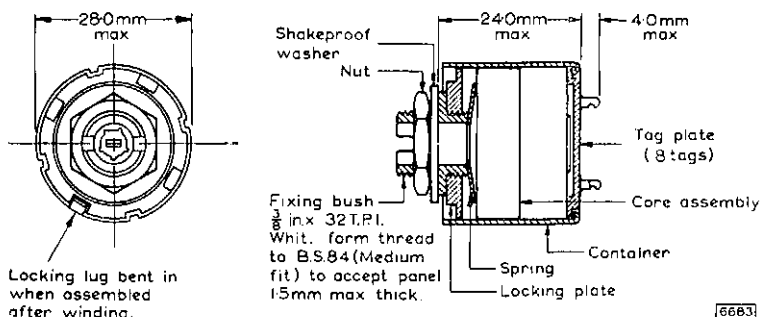
SILK COVERED BUNCHED ENAMELLED COPPER CONDUCTORS  
TO B.S.1258

Strands	S.W.G.	Strand dia. (in.)	Insulation	Turns	Resistance ( $\Omega$ )
81	43	0.0036	D.S.C.	12	0.020
350	48	0.0016	D.S.C.	12	0.024
315	48	0.0016	D.S.C.	19	0.041
81	44	0.0032	D.S.C.	21	0.044
280	48	0.0016	D.S.C.	21	0.051
252	48	0.0016	D.S.C.	21	0.057
81	45	0.0028	D.S.C.	22	0.061
224	48	0.0016	D.S.C.	22	0.067
200	48	0.0016	D.S.C.	24	0.082
180	48	0.0016	D.S.C.	34	0.130
48	44	0.0032	D.S.C.	34	0.120
160	48	0.0016	D.S.C.	36	0.155
140	48	0.0016	D.S.C.	38	0.185
30	43	0.0036	S.S.C.	42	0.19
81	47	0.0020	D.S.C.	55	0.30
30	44	0.0032	S.S.C.	57	0.33
100	48	0.0016	D.S.C.	60	0.41
30	45	0.0028	S.S.C.	81	0.60
81	48	0.0016	D.S.C.	81	0.69
30	46	0.0024	S.S.C.	105	1.05
19	45	0.0028	S.S.C.	112	1.2
30	47	0.0020	S.S.C.	148	2.2
7	42	0.0040	S.S.C.	180	2.8
10	45	0.0028	S.S.C.	189	4.2
9	45	0.0028	S.S.C.	220	5.7
7	45	0.0028	S.S.C.	297	9.5
3	44	0.0032	S.S.C.	415	24
3	46	0.0024	S.S.C.	640	65

# VINKOR ADJUSTABLE POT CORE

# LA2304

25mm adjustable pot core specially designed for high quality inductors operating at frequencies up to approximately 70kc/s.



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

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

Effective permeability	$\mu_e$	*100
Turns for 1mH	$\alpha$	53.8
Initial permeability of material	$\mu_i$	
Minimum		1000
Typical		1400
Residual plus eddy current dissipation factor measured at:	$\tan \delta_{r+e}$	
B max. < 0.5 gauss, f = 30kc/s		
Typical		$0.38 \times 10^{-3}$
Maximum		$0.50 \times 10^{-3}$
B max. < 0.5 gauss, f = 100kc/s		
Typical		$0.77 \times 10^{-3}$
Maximum		$1.00 \times 10^{-3}$
Hysteresis factor measured at 4kc/s $F_h = \frac{R}{L} \cdot \frac{1}{1.4\sqrt{L}}$		
Typical		8.0
Maximum		9.7
Temperature coefficient over the range 20 to 50°C	$\frac{\Delta L}{L \cdot \Delta T}$	0 to +200 p.p.m./°C

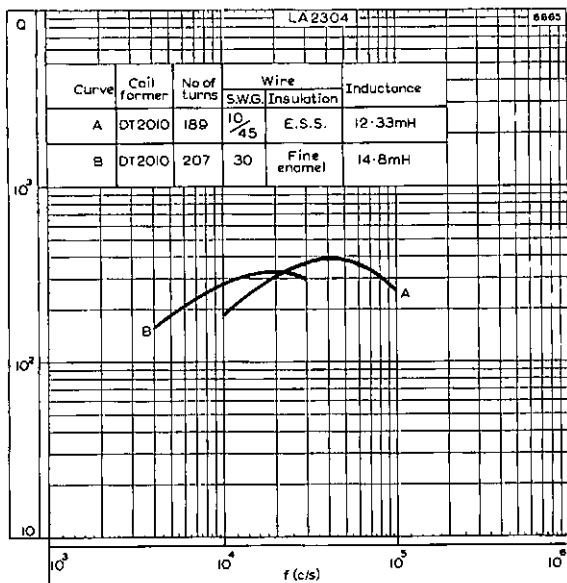
\*Without the adjuster, the effective permeability of the core is  $90.0 \pm 3\%$ .

## GENERAL NOTES

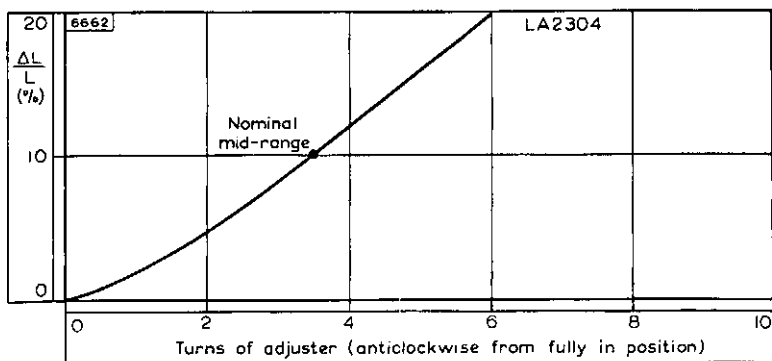
Coil formers are not supplied with the Vinkor but should be ordered separately. For details see page 3.

For correct assembly and adjustment of piece parts use aligning plug type DT2034. See separate data sheet.

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



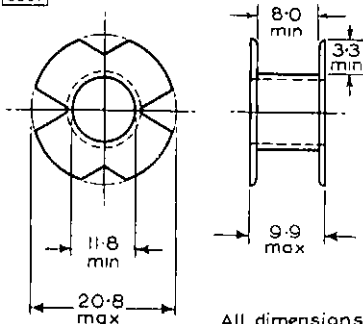
**TYPICAL Q CURVES**



**ADJUSTMENT CURVE**



6667



All dimensions in mm

Single section coil former

DT2010—nylon, maximum working temperature = 130°C.

DT2083—polystyrene, maximum working temperature = 80°C.

The nylon is a low water absorbent grade. Nominal winding area = 29.6mm<sup>2</sup>.

**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	24	0.032
21	0.032	27	0.044
22	0.028	40	0.088
23	0.024	60	0.185
24	0.022	65	0.23
25	0.020	87	0.38
26	0.018	96	0.51
27	0.0164	122	0.79
28	0.0148	156	1.25
29	0.0136	168	1.55
30	0.0124	207	2.4
31	0.0116	238	3.1
32	0.0108	271	4.1
33	0.0100	310	5.5
34	0.0092	370	7.8
35	0.0084	435	11
36	0.0076	530	16
37	0.0068	645	25
38	0.0060	855	43
39	0.0052	1100	72
40	0.0048	1290	99
41	0.0044	1500	135
42	0.0040	1810	200
43	0.0036	2250	310
44	0.0032	2800	490
45	0.0028	3650	830
46	0.0024	4850	1500
47	0.0020	7100	3100

## WINDING DATA FOR FULLY WOUND FORMER

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

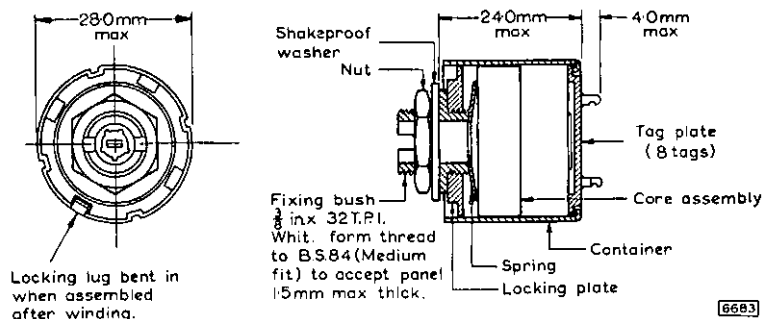
Strands	S.W.G.	Strand dia. (in.)	Insulation	Turns	Resistance ( $\Omega$ )
81	43	0.0036	D.S.C.	12	0.020
350	48	0.0016	D.S.C.	12	0.024
315	48	0.0016	D.S.C.	19	0.041
81	44	0.0032	D.S.C.	21	0.044
280	48	0.0016	D.S.C.	21	0.051
252	48	0.0016	D.S.C.	21	0.057
81	45	0.0028	D.S.C.	22	0.061
224	48	0.0016	D.S.C.	22	0.067
200	48	0.0016	D.S.C.	24	0.082
180	48	0.0016	D.S.C.	34	0.130
48	44	0.0032	D.S.C.	34	0.120
160	48	0.0016	D.S.C.	36	0.155
140	48	0.0016	D.S.C.	38	0.185
30	43	0.0036	S.S.C.	42	0.19
81	47	0.0020	D.S.C.	55	0.30
30	44	0.0032	S.S.C.	57	0.33
100	48	0.0016	D.S.C.	60	0.41
30	45	0.0028	S.S.C.	81	0.60
81	48	0.0016	D.S.C.	81	0.69
30	46	0.0024	S.S.C.	105	1.05
19	45	0.0028	S.S.C.	112	1.2
30	47	0.0020	S.S.C.	148	2.2
7	42	0.0040	S.S.C.	180	2.8
10	45	0.0028	S.S.C.	189	4.2
9	45	0.0028	S.S.C.	220	5.7
7	45	0.0028	S.S.C.	297	9.5
3	44	0.0032	S.S.C.	415	24
3	46	0.0024	S.S.C.	640	65



# VINKOR ADJUSTABLE POT CORE

# LA2305

25mm adjustable pot core specially designed for high quality inductors operating at frequencies up to approximately 200kc/s.



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

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

Effective permeability	$\mu_e$	*63
Turns for 1mH	$\alpha$	67.8
Initial permeability of material	$\mu_i$	
Minimum		1000
Typical		1400
Residual plus eddy current dissipation factor measured at:	$\tan \delta_{r+e}$	
B max. < 0.5 gauss, $f = 30\text{kc/s}$		
Typical		$0.24 \times 10^{-3}$
Maximum		$0.32 \times 10^{-3}$
B max. < 0.5 gauss, $f = 100\text{kc/s}$		
Typical		$0.5 \times 10^{-3}$
Maximum		$0.63 \times 10^{-3}$
Hysteresis factor measured at 4kc/s $F_h = \frac{R}{L} \cdot \frac{1}{1.1f\sqrt{L}}$		
Typical		4.0
Maximum		4.85
Temperature coefficient over the range 20 to 50°C	$\frac{\Delta L}{L \cdot \Delta T}$	0 to +126 p.p.m./°C

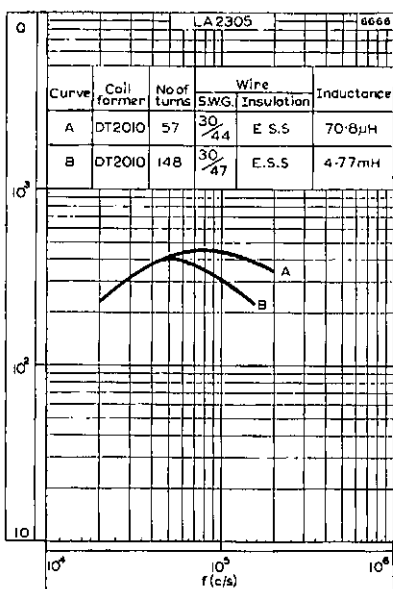
\*Without the adjuster, the effective permeability of the core is  $59.0 \pm 2\%$ .

## GENERAL NOTES

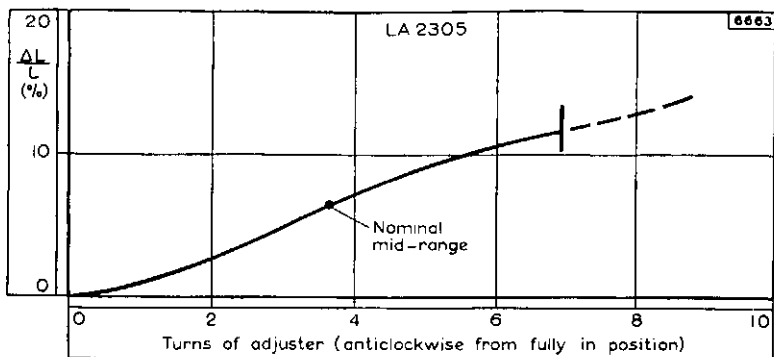
Coil formers are not supplied with the Vinkor but should be ordered separately. For details see page 3.

For correct assembly and adjustment of piece parts use aligning plug type DT2034. See separate data sheets.

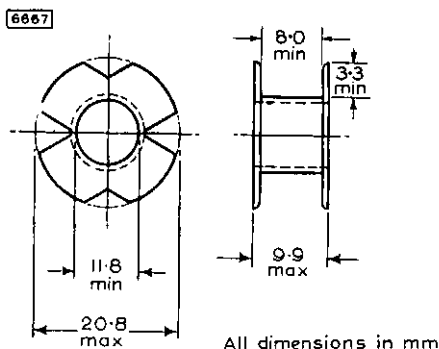
Non-magnetic screwdriver type DT2047 should be used for precise adjustment of inductance.



**TYPICAL Q CURVES**



**ADJUSTMENT CURVE**



Single section coil former

DT2010—nylon, maximum working temperature = 130°C.

DT2083—polystyrene, maximum working temperature = 80°C.

The nylon is of a low water absorbent grade. Nominal winding area = 29.6mm<sup>2</sup>.

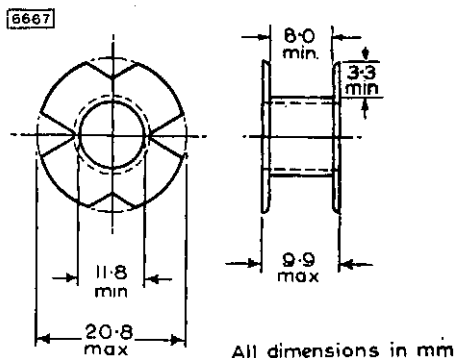
**WINDING DATA FOR FULLY WOUND FORMER**  
**ENAMELLED COPPER WIRE TO B.S.1844 (FINE COVERING)**

S.W.G.	Cu. dia. (in.)	Turns	Resistance (Ω)
20	0.036	24	0.032
21	0.032	27	0.044
22	0.028	40	0.088
23	0.024	60	0.185
24	0.022	65	0.23
25	0.020	87	0.38
26	0.018	96	0.51
27	0.0164	122	0.79
28	0.0148	156	1.25
29	0.0136	168	1.55
30	0.0124	207	2.4
31	0.0116	238	3.1
32	0.0108	271	4.1
33	0.0100	310	5.5
34	0.0092	370	7.8
35	0.0084	435	11
36	0.0076	530	16
37	0.0068	645	25
38	0.0060	855	43
39	0.0052	1100	72
40	0.0048	1290	99
41	0.0044	1500	135
42	0.0040	1810	200
43	0.0036	2250	310
44	0.0032	2800	490
45	0.0028	3650	830
46	0.0024	4850	1500
47	0.0020	7100	3100

## 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 ( $\Omega$ )
81	43	0.0036	D.S.C.	12	0.020
350	48	0.0016	D.S.C.	12	0.024
315	48	0.0016	D.S.C.	19	0.041
81	44	0.0032	D.S.C.	21	0.044
280	48	0.0016	D.S.C.	21	0.051
252	48	0.0016	D.S.C.	21	0.057
81	45	0.0028	D.S.C.	22	0.061
224	48	0.0016	D.S.C.	22	0.067
200	48	0.0016	D.S.C.	24	0.082
180	48	0.0016	D.S.C.	34	0.130
48	44	0.0032	D.S.C.	34	0.120
160	48	0.0016	D.S.C.	36	0.155
140	48	0.0016	D.S.C.	38	0.185
30	43	0.0036	S.S.C.	42	0.19
81	47	0.0020	D.S.C.	55	0.30
30	44	0.0032	S.S.C.	57	0.33
100	48	0.0016	D.S.C.	60	0.41
30	45	0.0028	S.S.C.	81	0.60
81	48	0.0016	D.S.C.	81	0.69
30	46	0.0024	S.S.C.	105	1.05
19	45	0.0028	S.S.C.	112	1.2
30	47	0.0020	S.S.C.	148	2.2
7	42	0.0040	S.S.C.	180	2.8
10	45	0.0028	S.S.C.	189	4.2
9	45	0.0028	S.S.C.	220	5.7
7	45	0.0028	S.S.C.	297	9.5
3	44	0.0032	S.S.C.	415	24
3	46	0.0024	S.S.C.	640	65



Single section coil former

DT2010—nylon, maximum working temperature=130°C.

DT2083—polystyrene, maximum working temperature=80°C.

The nylon is of a low water absorbent grade.

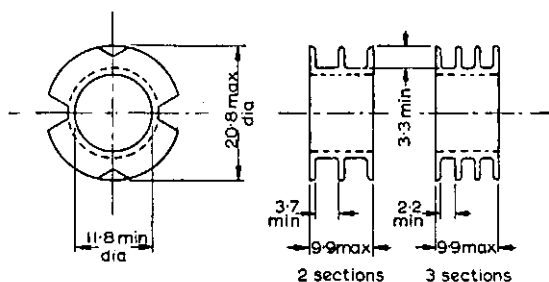
**WINDING DATA FOR FULLY WOUND FORMER  
ENAMELLED COPPER WIRE TO B.S.1844 (FINE COVERING)**

S.W.G.	Cu. dia. (in.)	Turns	Resistance (Ω)
20	0.036	24	0.032
21	0.032	27	0.044
22	0.028	40	0.088
23	0.024	60	0.185
24	0.022	65	0.23
25	0.020	87	0.38
26	0.018	96	0.51
27	0.0164	122	0.79
28	0.0148	156	1.25
29	0.0136	168	1.55
30	0.0124	207	2.4
31	0.0116	238	3.1
32	0.0108	271	4.1
33	0.0100	310	5.5
34	0.0092	370	7.8
35	0.0084	435	11
36	0.0076	530	16
37	0.0068	645	25
38	0.0060	855	43
39	0.0052	1100	72
40	0.0048	1290	99
41	0.0044	1500	135
42	0.0040	1810	200
43	0.0036	2250	310
44	0.0032	2800	490
45	0.0028	3650	830
46	0.0024	4850	1500
47	0.0020	7100	3100

## 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 ( $\Omega$ )
81	43	0.0036	D.S.C.	12	0.020
350	48	0.0016	D.S.C.	12	0.024
315	48	0.0016	D.S.C.	19	0.041
81	44	0.0032	D.S.C.	21	0.044
280	48	0.0016	D.S.C.	21	0.051
252	48	0.0016	D.S.C.	21	0.057
81	45	0.0028	D.S.C.	22	0.061
224	48	0.0016	D.S.C.	22	0.067
200	48	0.0016	D.S.C.	24	0.082
180	48	0.0016	D.S.C.	34	0.130
48	44	0.0032	D.S.C.	34	0.120
160	48	0.0016	D.S.C.	36	0.155
140	48	0.0016	D.S.C.	38	0.185
30	43	0.0036	S.S.C.	42	0.19
81	47	0.0020	D.S.C.	55	0.30
30	44	0.0032	S.S.C.	57	0.33
100	48	0.0016	D.S.C.	60	0.41
30	45	0.0028	S.S.C.	81	0.60
81	48	0.0016	D.S.C.	81	0.69
30	46	0.0024	S.S.C.	105	1.05
19	45	0.0028	S.S.C.	112	1.2
30	47	0.0020	S.S.C.	148	2.2
7	42	0.0040	S.S.C.	180	2.8
10	45	0.0028	S.S.C.	189	4.2
9	45	0.0028	S.S.C.	220	5.7
7	45	0.0028	S.S.C.	297	9.5
3	44	0.0032	S.S.C.	415	24
3	46	0.0024	S.S.C.	640	65

### Multi-section coil formers



6983

All dimensions in mm

- 2 sections DT2061—nylon, maximum working temperature=130°C.  
 DT2075—polystyrene, maximum working temperature=80°C.  
 3 sections DT2056—nylon, maximum working temperature=130°C.  
 DT2070—polystyrene, maximum working temperature=80°C.

The nylon is of a low water absorbent grade.

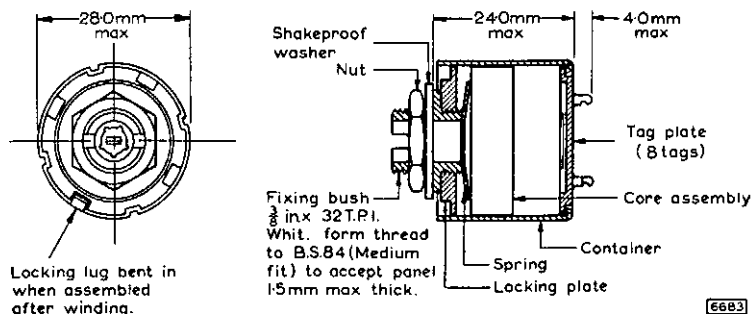


# VINKOR ADJUSTABLE POT CORE

# LA2309

25mm adjustable pot core specially designed for high quality inductors operating at frequencies up to approximately 700kc/s.

## PRELIMINARY DATA



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	$\mu_e$	*63
Turns for 1mH	$\alpha$	67.8
Initial permeability of material	$\mu_i$	
Minimum		600
Residual plus eddy current dissipation factor	$\tan \delta_{r+e}$	
Typical values measured at:		
B max. < 0.5 gauss, f = 100kc/s		$0.55 \times 10^{-3}$
B max. < 0.5 gauss, f = 1Mc/s		$1.75 \times 10^{-3}$
Hysteresis factor measured at 100kc/s $F_h = \frac{R}{L} \cdot \frac{1}{I.f.\sqrt{L}}$		
Maximum		4.9
Temperature coefficient over the range 20 to 50°C	$\frac{\Delta L}{L \cdot \Delta T}$	0 to +158 ppm/°C

\*Without the adjuster, the effective permeability of the core is  $59 \pm 2\%$ .

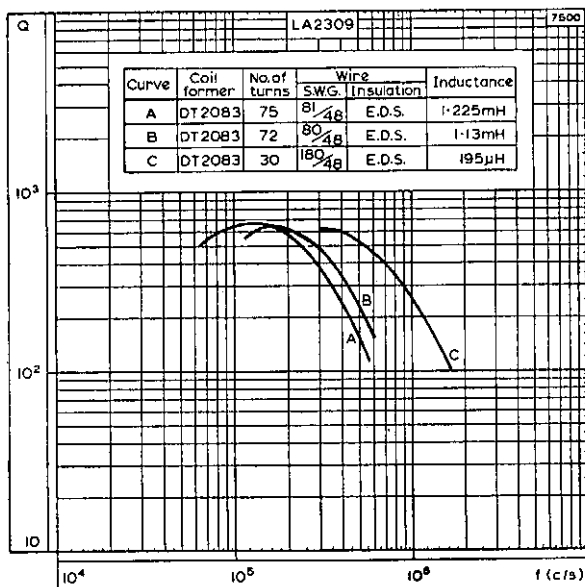
## GENERAL NOTES

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

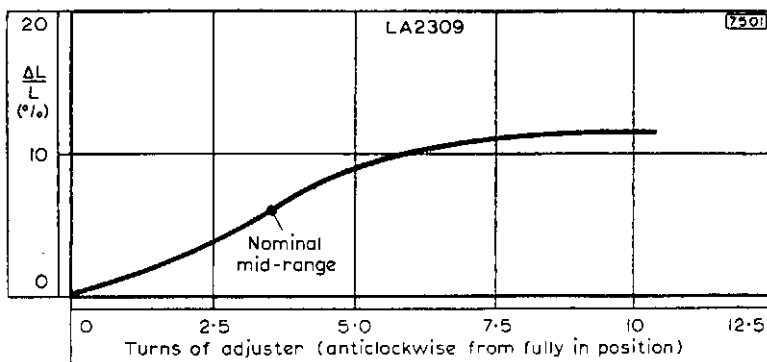
For correct assembly and adjustment of piece parts use aligning plug type DT2034. See separate data sheet.

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





**TYPICAL Q CURVES**



**ADJUSTMENT CURVE**



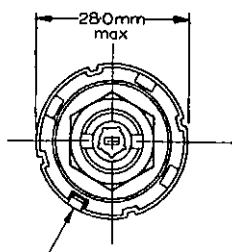


# VINKOR ADJUSTABLE POT CORE

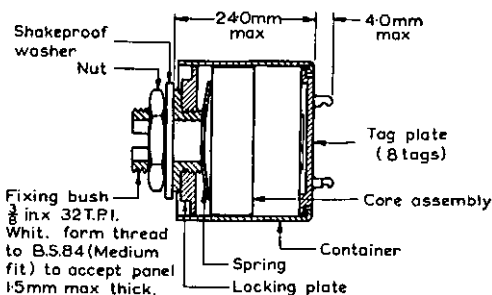
# LA2310

25mm adjustable pot core specially designed for high quality inductors operating at frequencies up to approximately 1.2 Mc/s.

## PRELIMINARY DATA



Locking lug bent in when assembled after winding.



8683

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	$\mu_e$	*40
Turns for 1mH	$\alpha$	85.1
Initial permeability of material	$\mu_i$	
Minimum		600
Residual plus eddy current dissipation factor	$\tan \delta_{r+e}$	
Typical values measured at;		
B max. < 0.5 gauss, f = 100kc/s		$0.35 \times 10^{-3}$
B max. < 0.5 gauss, f = 1Mc/s		$1.1 \times 10^{-3}$
Hysteresis factor measured at 100kc/s	$F_h = \frac{R}{L} \cdot \frac{1}{1.4\sqrt{L}}$	
Maximum		2.5
Temperature coefficient over the range 20 to 50°C	$\frac{\Delta L}{L \cdot \Delta T}$	0 to +100 ppm/°C

\*Without the adjuster, the effective permeability of the core is  $35.7 \pm 2\%$ .

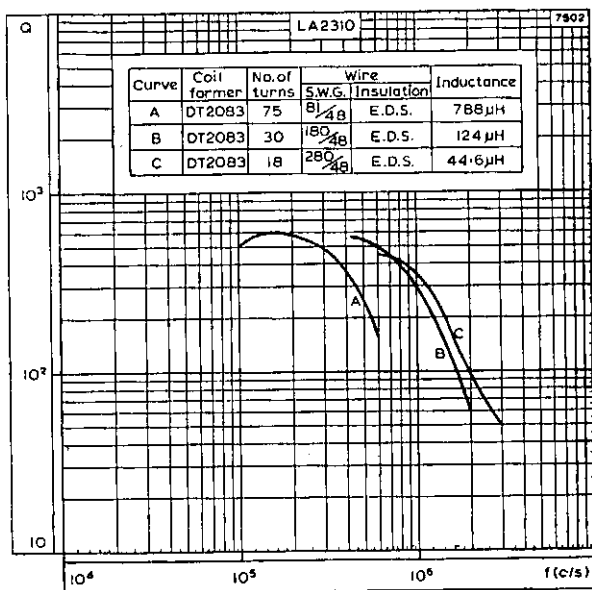
## GENERAL NOTES

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

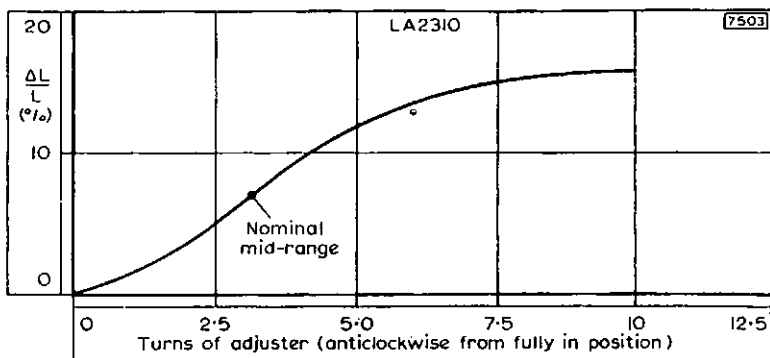
For correct assembly and adjustment of piece parts use aligning plug type DT2034. See separate data sheet.

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

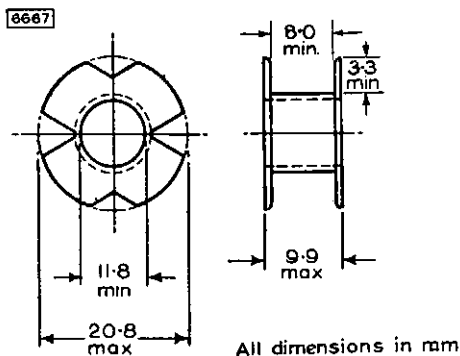




**TYPICAL Q CURVES**



**ADJUSTMENT CURVE**



Single section coil former

DT2010—nylon, maximum working temperature=130°C.

DT2083—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)**

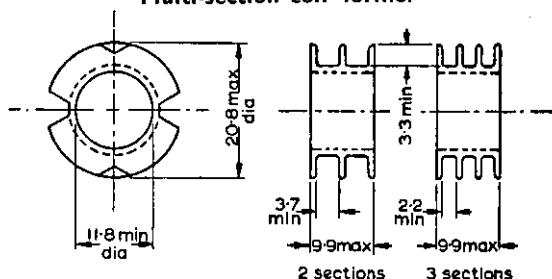
S.W.G.	Cu. dia. (in.)	Turns	Resistance ( $\Omega$ )
20	0.036	24	0.032
21	0.032	27	0.044
22	0.028	40	0.088
23	0.024	60	0.185
24	0.022	65	0.23
25	0.020	87	0.38
26	0.018	96	0.51
27	0.0164	122	0.79
28	0.0148	156	1.25
29	0.0136	168	1.55
30	0.0124	207	2.4
31	0.0116	238	3.1
32	0.0108	271	4.1
33	0.0100	310	5.5
34	0.0092	370	7.8
35	0.0084	435	11
36	0.0076	530	16
37	0.0068	645	25
38	0.0060	855	43
39	0.0052	1100	72
40	0.0048	1290	99
41	0.0044	1500	135
42	0.0040	1810	200
43	0.0036	2250	310
44	0.0032	2800	490
45	0.0028	3650	830
46	0.0024	4850	1500
47	0.0020	7100	3100



## 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 ( $\Omega$ )
81	43	0.0036	D.S.C.	12	0.020
350	48	0.0016	D.S.C.	12	0.024
315	48	0.0016	D.S.C.	19	0.041
81	44	0.0032	D.S.C.	21	0.044
280	48	0.0016	D.S.C.	21	0.051
252	48	0.0016	D.S.C.	21	0.057
81	45	0.0028	D.S.C.	22	0.061
224	48	0.0016	D.S.C.	22	0.067
200	48	0.0016	D.S.C.	24	0.082
180	48	0.0016	D.S.C.	34	0.130
48	44	0.0032	D.S.C.	34	0.120
160	48	0.0016	D.S.C.	36	0.155
140	48	0.0016	D.S.C.	38	0.185
30	43	0.0036	S.S.C.	42	0.19
81	47	0.0020	D.S.C.	55	0.30
30	44	0.0032	S.S.C.	57	0.33
100	48	0.0016	D.S.C.	60	0.41
30	45	0.0028	S.S.C.	81	0.60
81	48	0.0016	D.S.C.	81	0.69
30	46	0.0024	S.S.C.	105	1.05
19	45	0.0028	S.S.C.	112	1.2
30	47	0.0020	S.S.C.	148	2.2
7	42	0.0040	S.S.C.	180	2.8
10	45	0.0028	S.S.C.	189	4.2
9	45	0.0028	S.S.C.	220	5.7
7	45	0.0028	S.S.C.	297	9.5
3	44	0.0032	S.S.C.	415	24
3	46	0.0024	S.S.C.	640	65

### Multi-section coil former



6983

All dimensions in mm

- 2 sections DT2061—nylon, maximum working temperature=130°C.  
 DT2075—polystyrene, maximum working temperature=80°C.
- 3 sections DT2056—nylon, maximum working temperature=130°C.  
 DT2070—polystyrene, maximum working temperature=80°C.
- The nylon is of a low water absorbent grade.

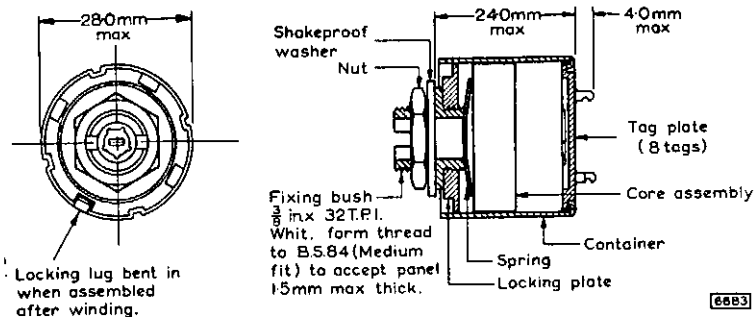


# VINKOR ADJUSTABLE POT CORE

# LA23II

25mm adjustable pot core specially designed for high quality inductors operating at frequencies up to approximately 3Mc/s.

## PRELIMINARY DATA



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	$\mu_c$	*25
Turns for 1mH	$\alpha$	115
Initial permeability of material	$\mu_i$	
Minimum		600
Residual plus eddy current dissipation factor	$\tan \delta_{r+e}$	

Typical values measured at;

B max. < 0.5 gauss, f=100kc/s	$0.23 \times 10^{-3}$
B max. < 0.5 gauss, f=1Mc/s	$0.71 \times 10^{-3}$

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

Maximum	1.3
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Temperature coefficient over the range 20 to 50°C	$\frac{\Delta L}{L \cdot \Delta T}$	0 to +62.5 ppm/°C
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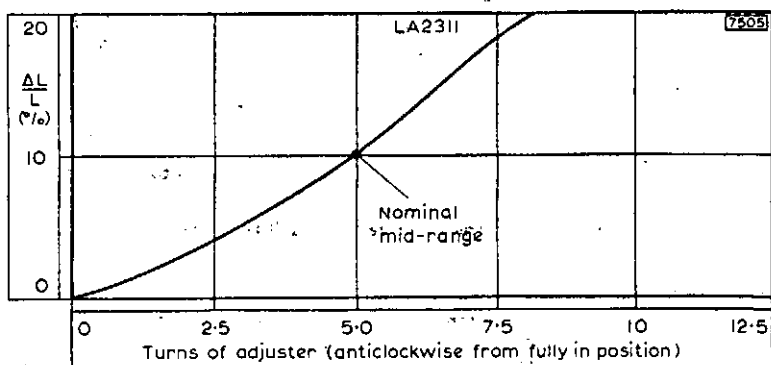
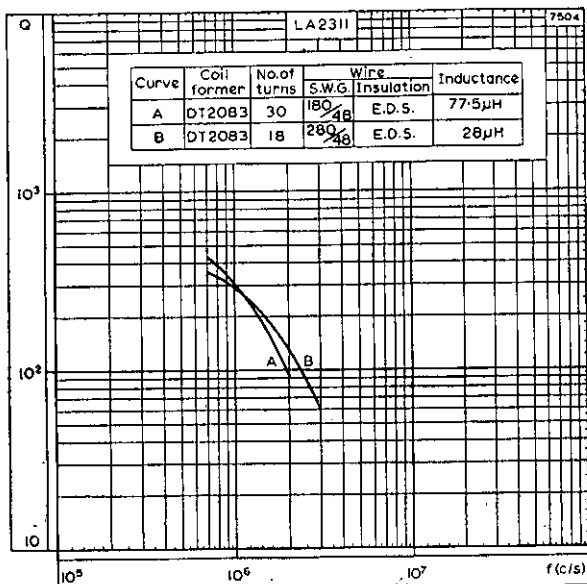
\*Without the adjuster, the effective permeability of the core is  $22.1 \pm 2\%$ .

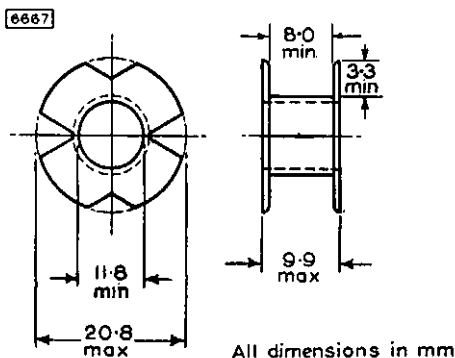
## GENERAL NOTES

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 DT2034. See separate data sheet.

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





Single section coil former

DT2010—nylon, maximum working temperature=130°C.

DT2083—polystyrene, maximum working temperature=80°C.

The nylon is of a low water absorbent grade.

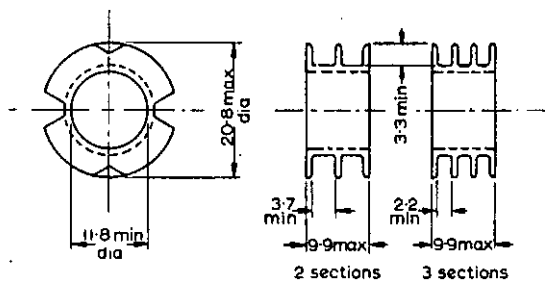
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ENAMELLED COPPER WIRE TO B.S.1844 (FINE COVERING)**

S.W.G.	Cu. dia. (in.)	Turns	Resistance ( $\Omega$ )
20	0.036	24	0.032
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22	0.028	40	0.088
23	0.024	60	0.185
24	0.022	65	0.23
25	0.020	87	0.38
26	0.018	96	0.51
27	0.0164	122	0.79
28	0.0148	156	1.25
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34	0.0092	370	7.8
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Strands	S.W.G.	Strand dia. (in.)	Insulation	Turns	Resistance ( $\Omega$ )
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30	44	0.0032	S.S.C.	57	0.33
100	48	0.0016	D.S.C.	60	0.41
30	45	0.0028	S.S.C.	81	0.60
81	48	0.0016	D.S.C.	81	0.69
30	46	0.0024	S.S.C.	105	1.05
19	45	0.0028	S.S.C.	112	1.2
30	47	0.0020	S.S.C.	148	2.2
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6983

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