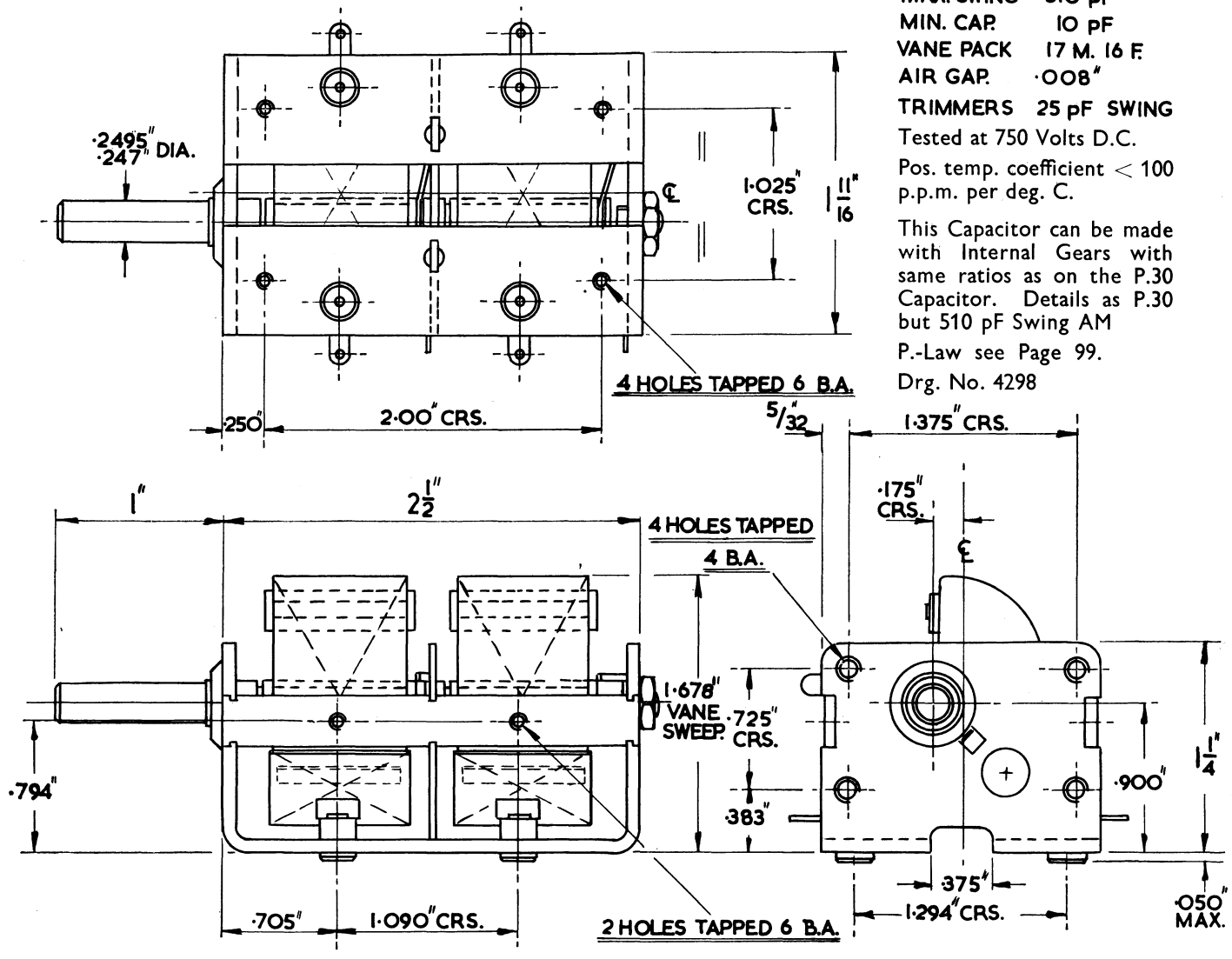
TYPE P.20 2 GANG CAPACITOR



MAX. SWING 510 pF
MIN. CAP. 10 pF
VANE PACK 17 M. 16 F.
AIR GAP. ·008"
TRIMMERS 25 pF SWING
Tested at 750 Volts D.C.
Pos. temp. coefficient < 100 p.p.m. per deg. C.

This Capacitor can be made with Internal Gears with same ratios as on the P.30 Capacitor. Details as P.30 but 510 pF Swing AM

P.-Law see Page 99.
Drg. No. 4298

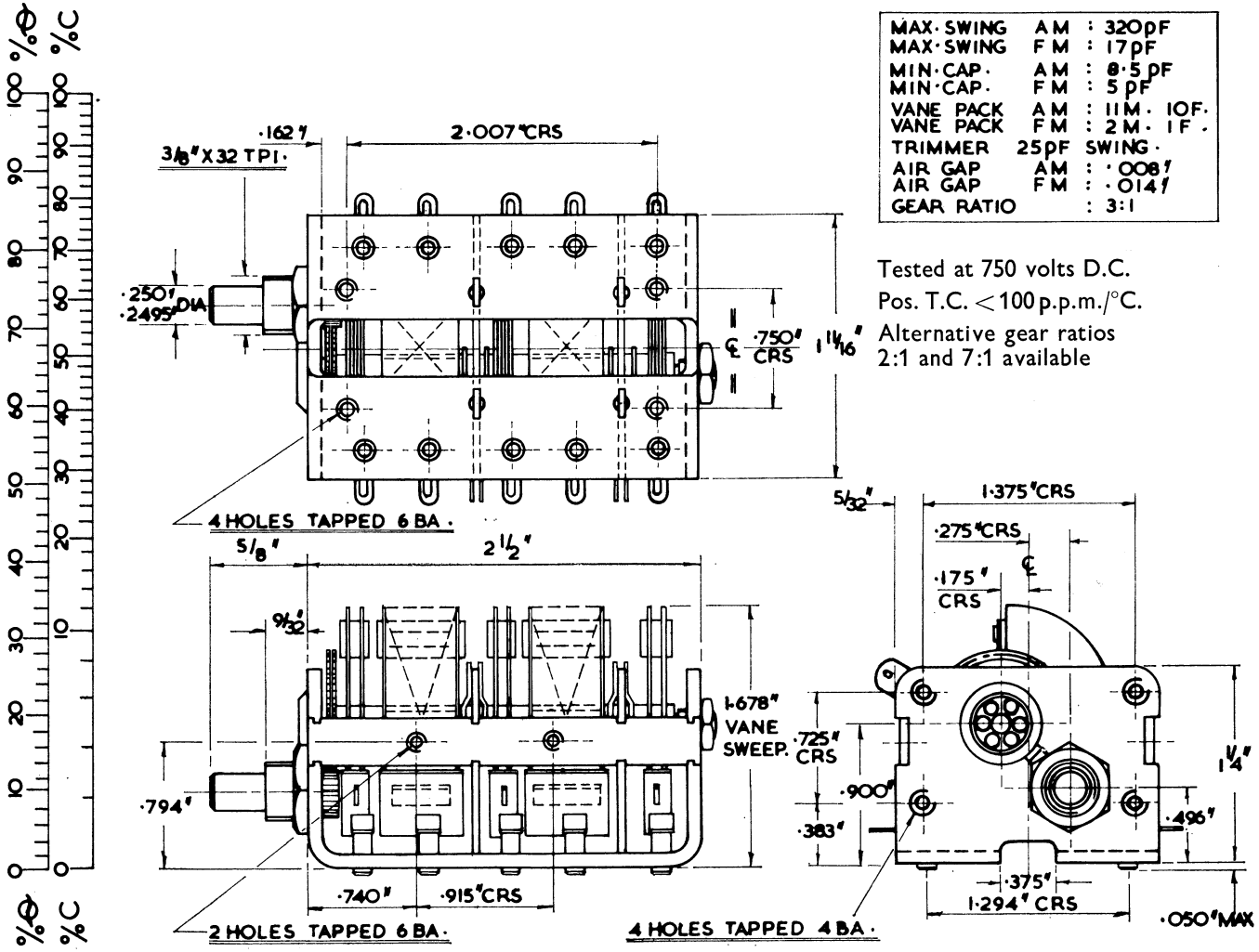
TYPE P40 4 GANG CAPACITOR

Substantially as P30 and P20 Capacitors but having 4 Sections of 180 pF Swing AM (min. 8·5 pF) Drg. No. 4299 or 4 Sections of 18 pF Swing FM (min. 4 pF) Drg. No. 4299/FM. P.-Law see Page 99.

TYPE P503 AM/FM CAPACITOR

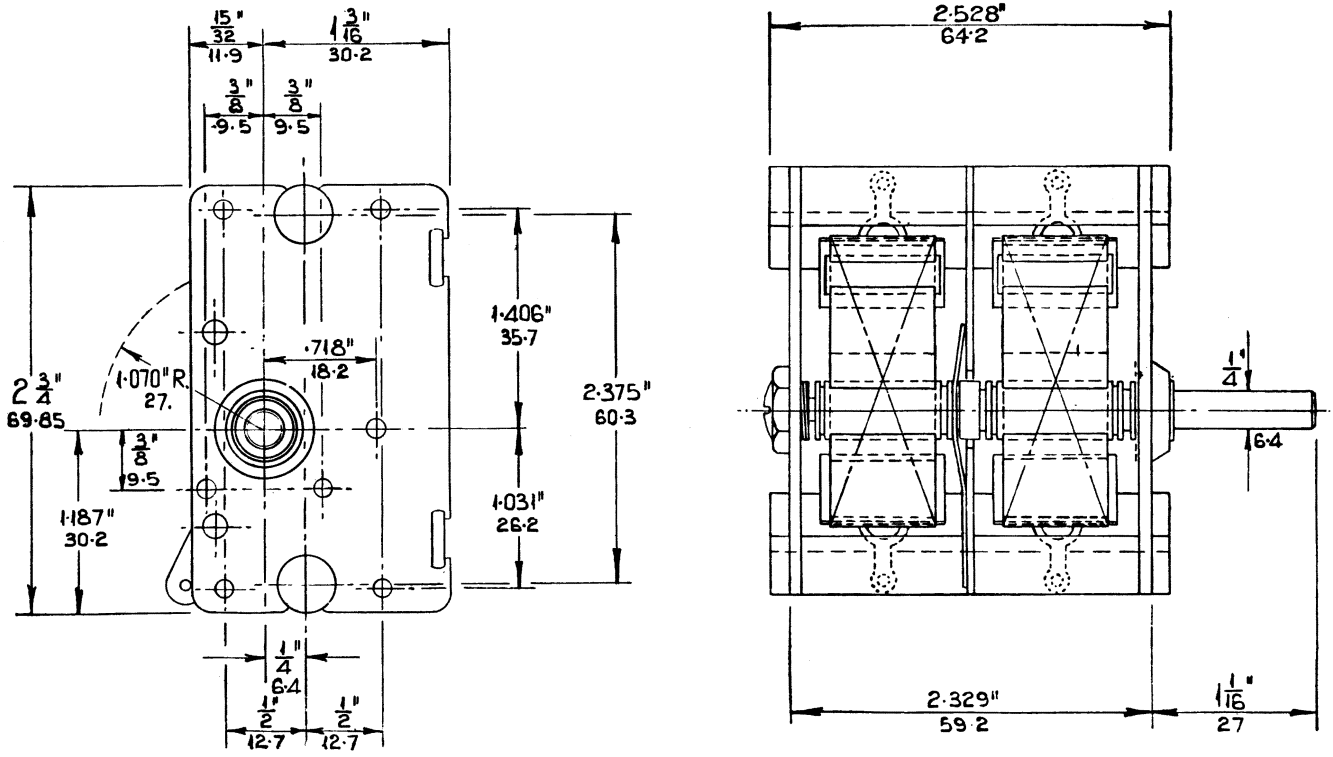
MAX·SWING	AM	: 320pF
MAX·SWING	FM	: 17pF
MIN·CAP·	AM	: 8·5 pF
MIN·CAP·	FM	: 5 pF
VANE PACK	AM	: 11M· 10F·
VANE PACK	FM	: 2M· 1F·
TRIMMER	25pF	SWING·
AIR GAP	AM	: ·008"
AIR GAP	FM	: ·014"
GEAR RATIO		: 3:1

Tested at 750 volts D.C.
Pos. T.C. $<$ 100 p.p.m./°C.
Alternative gear ratios
2:1 and 7:1 available



Drawing No. 4229/503/AM·FM

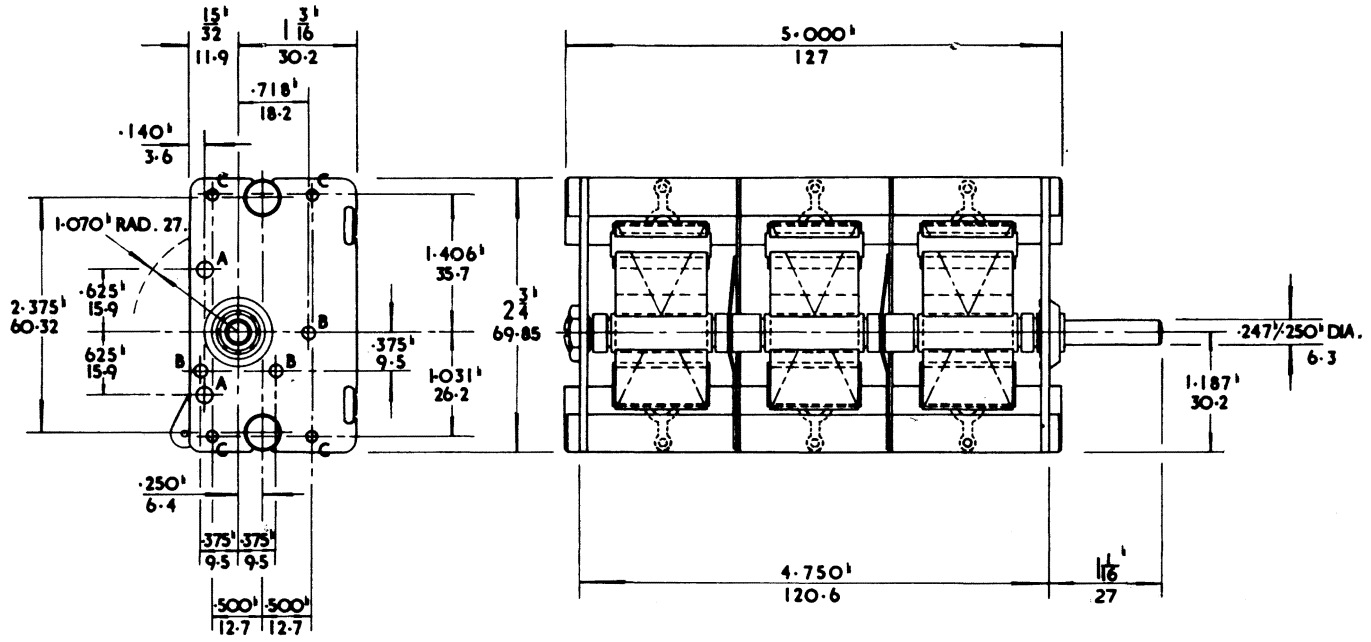
TYPE E. GANG CAPACITOR



Available in various capacities up to 532 pF swing. Air gap ·012". Insulation :—Ceramic.
Finish :—Commercial or DEF. 5000. SUPPLIED IN 1, 2, 3 or 4-GANG. Length $\pm$ 1 $\frac{7}{64}$" per section.
Also available:—Up to 3 Gangs can be supplied with spindle extended through Back Plate. S.L.F. Capacities up to 262 pF
Tested at 750 Volts. Positive temperature coefficient $<$ 100 p.p.m. per deg. C.
Three different capacitance Laws are available:—
Normally E.-Law see page 99
Alternatively H.-Law known as type E.H. Gang see page 99. Also S.L.F. Law known as type E.S.L.F. Gang.
The S.L.F. Law is available up to 262 pF swing and provides linear frequency scale provided that the ratio of min to max frequency is 2 : 1 (with overlap of 20° at H.F. and 10° at L.F. end of scale).

SEE PAGE 31 FOR VARIOUS GEARINGS AVAILABLE Drawing No. **4507**

TYPE L.E. GANG CAPACITOR



NOTE:—

"C" HOLES. ARE USED FOR RIVETTING FIXING FEET TO BACK AND FRONT PLATES. AS REQ'D.

METRIC AS WELL AS ENGLISH DIMENSIONS SHOWN.

HOLE.	DESCRIPTION.
A.	·160" DIA. (4)
B.	·120" DIA. (3)
C.	·115" DIA. (2·9)
ALL HOLES REPEATED IN BACK PLATE.	

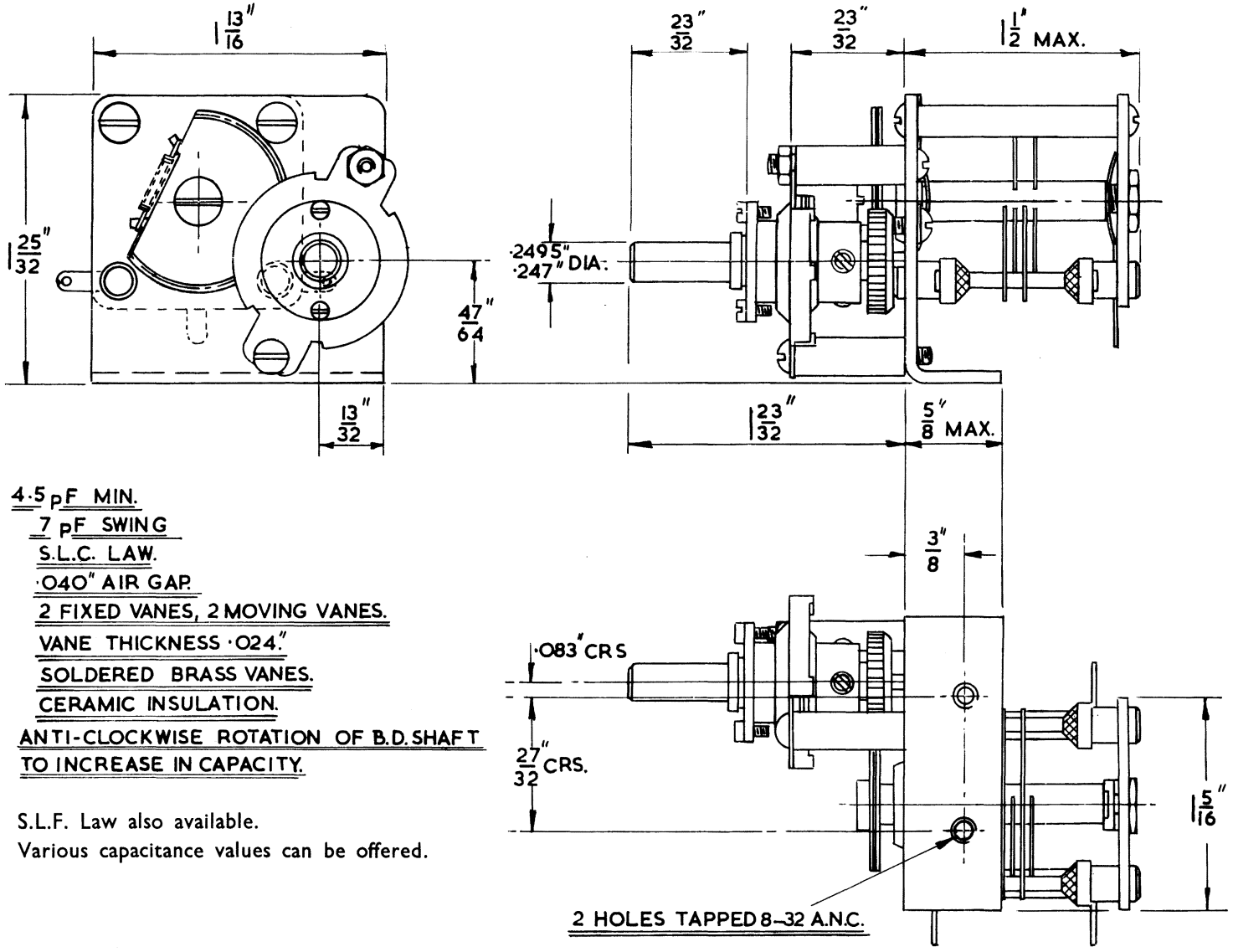
Available in various capacities up to 380 pF swing. Air gap ·017" Insulation :—Ceramic. Finish :—
Commercial or DEF. 5000. SUPPLIED IN 1, 2, 3 or 4-GANG. Length $\pm$ 1 35/64" per section.
Also available capacities up to 532 pF swing. Air gap ·012" Tested at 750 Volts.
Positive temperature coefficient $<$ 100 p.p.m. per deg. C.

E.-law see page 99

Drawing No : 4595.

SEE PAGE 31 FOR VARIOUS GEARINGS AVAILABLE

V.F.O. CAPACITOR



4·5 pF MIN.
7 pF SWING
S.L.C. LAW.
·040" AIR GAP.
2 FIXED VANES, 2 MOVING VANES.
VANE THICKNESS ·024".
SOLDERED BRASS VANES.
CERAMIC INSULATION.

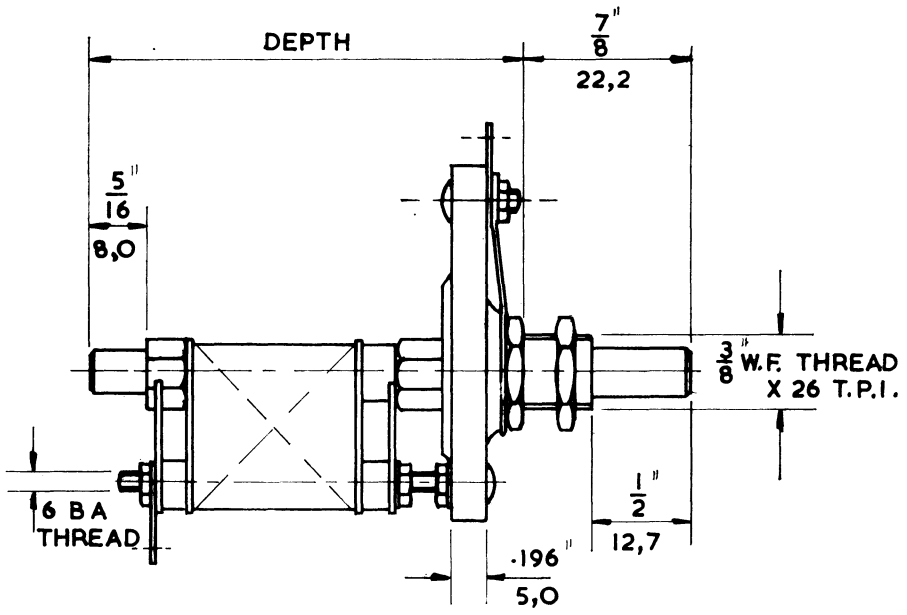
ANTI-CLOCKWISE ROTATION OF B.D. SHAFT TO INCREASE IN CAPACITY.

S.L.F. Law also available.
Various capacitance values can be offered.

Drawing No. 4170

WAVEMASTER VARIABLE CAPACITORS

TYPE 92 CAT. No. 5760



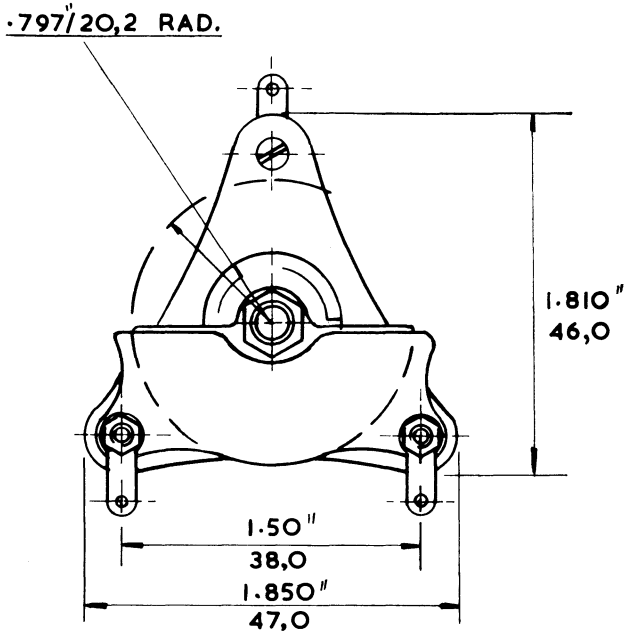
MATERIALS: Ceramic Base; Brass Vane Packs;
Phos. Br. Tension Spring;
Plain Bearings.
Designed for S.W. working.
Modified S.L.C. Law (S.W. Tuning).

TYPE 92 DATA TABLES

MAX CAP pF	AIR GAP	DEPTH	SUB TYPE
25	.025"	1 7/8"	92/073
200	.017"	2 3/8"	92/057
160	.017"	2 1/8"	92/057
100	.017"	2"	92/057
75	.017"	1 3/4"	92/057
50	.017"	1 3/4"	92/057
25	.017"	1 5/8"	92/057

MAX CAP pF	AIR GAP	DEPTH	SUB TYPE
50	.064"	2 3/4"	92/150
30	.064"	2 1/4"	92/150
15	.064"	1 3/4"	92/150
125	.025"	2"	92/073
95	.025"	1 7/8"	92/073
45	.025"	1 1/2"	92/073

TYPE 87 CAT. No. 5800



MATERIALS: Ceramic Base; Brass Vane Packs;
Phos. Br. Tension Spring;
Plain Bearings.
Designed for S.W. working.
S.L.C. Law.

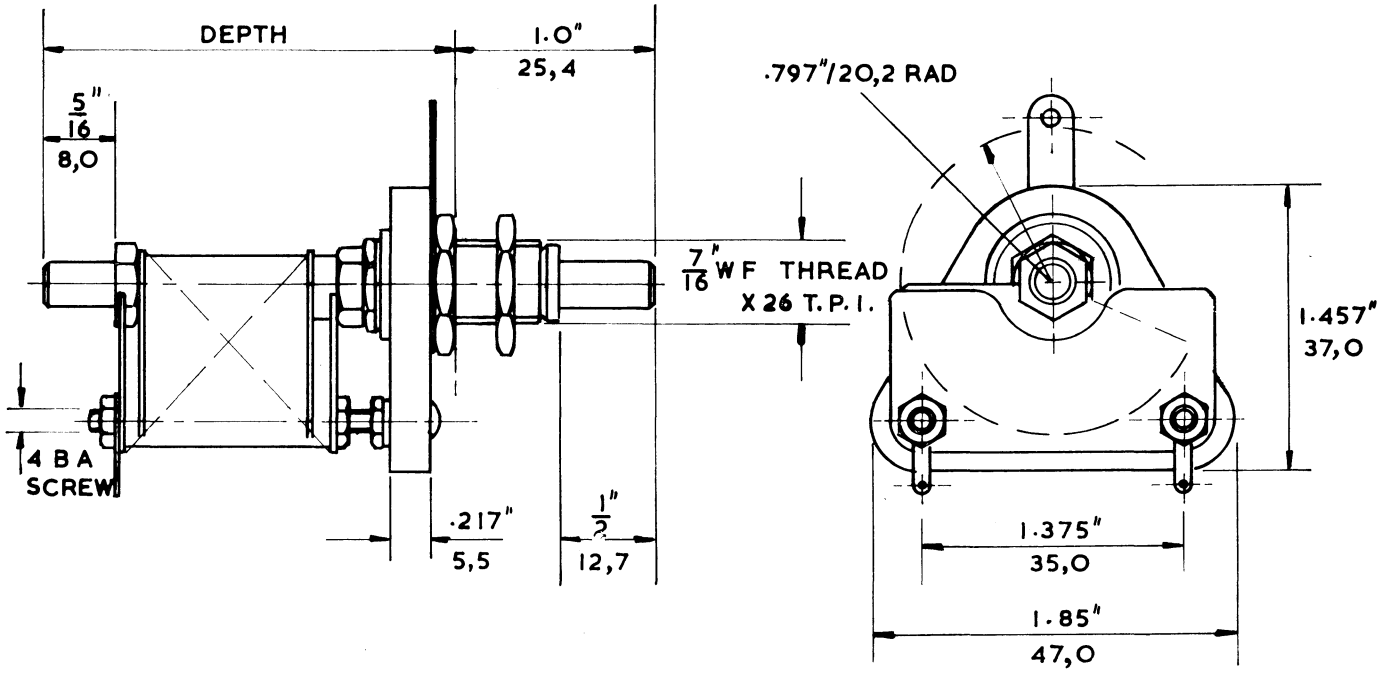
TYPE 87 DATA TABLES

MAX. CAP. pF.	AIR GAP	DEPTH	SUB TYPE
10	.025"	1 3/8"	87/073
250	.017"	2"	87/057
200	.017"	1 7/8"	87/057
150	.017"	1 5/8"	87/057
100	.017"	1 1/2"	87/057
80	.017"	1 1/2"	87/057
50	.017"	1 3/8"	87/057
12	.017"	1 1/4"	87/057

MAX. CAP. PF.	AIR GAP	DEPTH	SUB TYPE
50	.064"	2 1/4"	87/150
25	.064"	1 3/4"	87/150
15	.064"	1 5/8"	87/150
160	.025"	2"	87/073
105	.025"	1 3/4"	87/073
70	.025"	1 5/8"	87/073
35	.025"	1 1/2"	87/073

WAVEMASTER VARIABLE CAPACITOR

TYPE 95 Cat. No. 5790



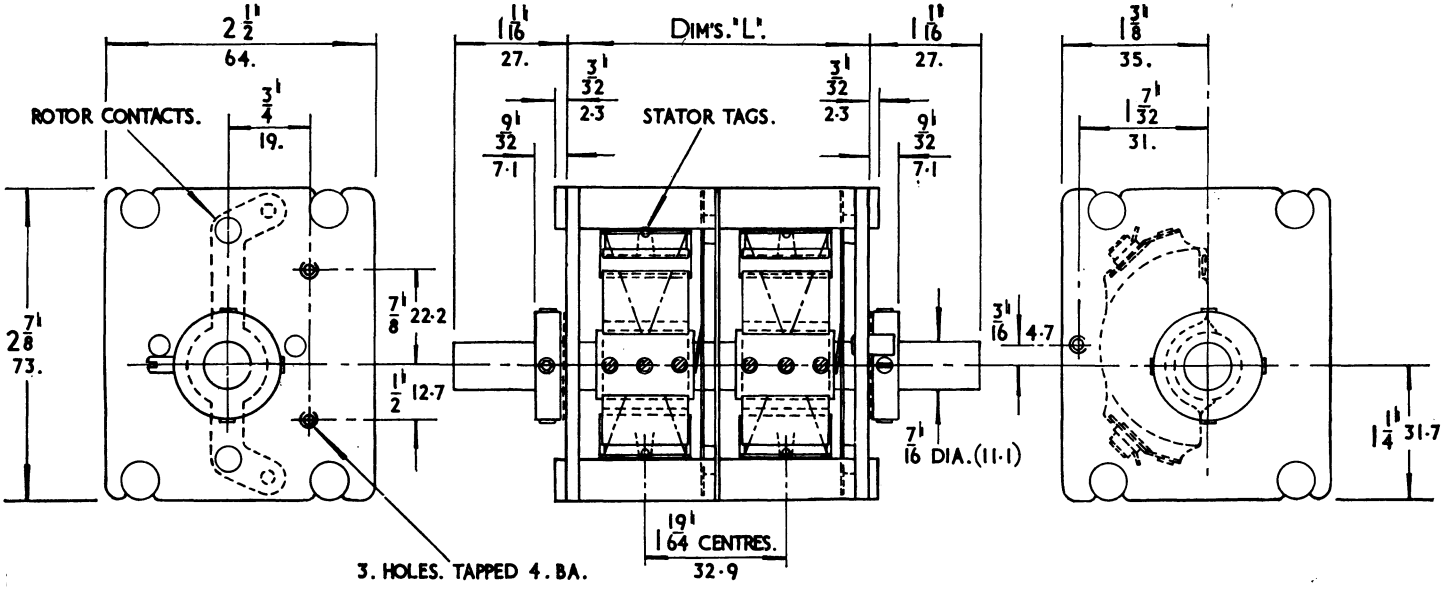
MATERIALS: Ceramic Base; Brass Vane Packs; Phos. Br. Tension Spring. Ball Bearings. Designed for S.W. working. S.L.C. Law.

MAX. CAP. pF.	AIR GAP	DEPTH	SUB TYPE
300	.017"	2 1/4"	95/057
240	.017"	2 1/4"	95/057
210	.017"	2 1/4"	95/057
160	.017"	2 1/8"	95/057
90	.017"	1 3/4"	95/057
50	.017"	1 5/8"	95/057
25	.017"	1 1/2"	95/057

MAX. CAP. pF.	AIR GAP	DEPTH	SUB TYPE
20	.044"	1 5/8"	95/110
12	.044"	1 5/8"	95/110
150	.025"	2 1/8"	95/073
110	.025"	2"	95/073
75	.025"	1 3/4"	95/073
50	.025"	1 5/8"	95/073
15	.025"	1 1/2"	95/073

MAX. CAP. pF.	AIR GAP	DEPTH	SUB TYPE
50	.064"	2 5/8"	95/150
35	.064"	2 3/8"	95/150
20	.064"	2"	95/150
15	.064"	1 5/8"	95/150
60	.044"	2 1/8"	95/110
30	.044"	1 3/4"	95/110

TYPE I.R. GANG CAPACITOR



DESCRIPTION.	DIM'S. L.	PART No.
1. GANG.	1 1/2" (38·1)	5140-1.
2. GANG.	2 51/64" (71)	5140-2.
3. GANG.	4 3/32" (104)	5140-3.
4. GANG.	5 25/64" (137)	5140-4.

CAPACITY SWING. "E" LAW.	MIN. CAP.	AIR GAP.	VANES. FIXED.	VANES. MOVING.
532.	12.	·012"	12.	13.
487·5	11·5	·012"	11.	12.
443.	11.	·012"	10.	11.
399.	10·5	·012"	9.	10.
354·5	10.	·012"	8.	9.
310·3	10.	·012"	7.	8.

Also various capacities up to 200 pF with ·024" Air Gap.

NOTE:— METRIC AS WELL AS ENGLISH DIMENSIONS SHOWN.

Material: Steel Frame (Alloy Frame Bars). Steel Ball-Bearings. Aluminium Vanes. Low Loss Ceramic Spindle. Ceramic Stator Insulation Pillars. P.T.F.E. Rotor Wipe Contact Insulation Pillars.

The high quality "Communication" Gang Capacitor. The frame bars are of low expansion alloy to match the Ceramic Spindle.

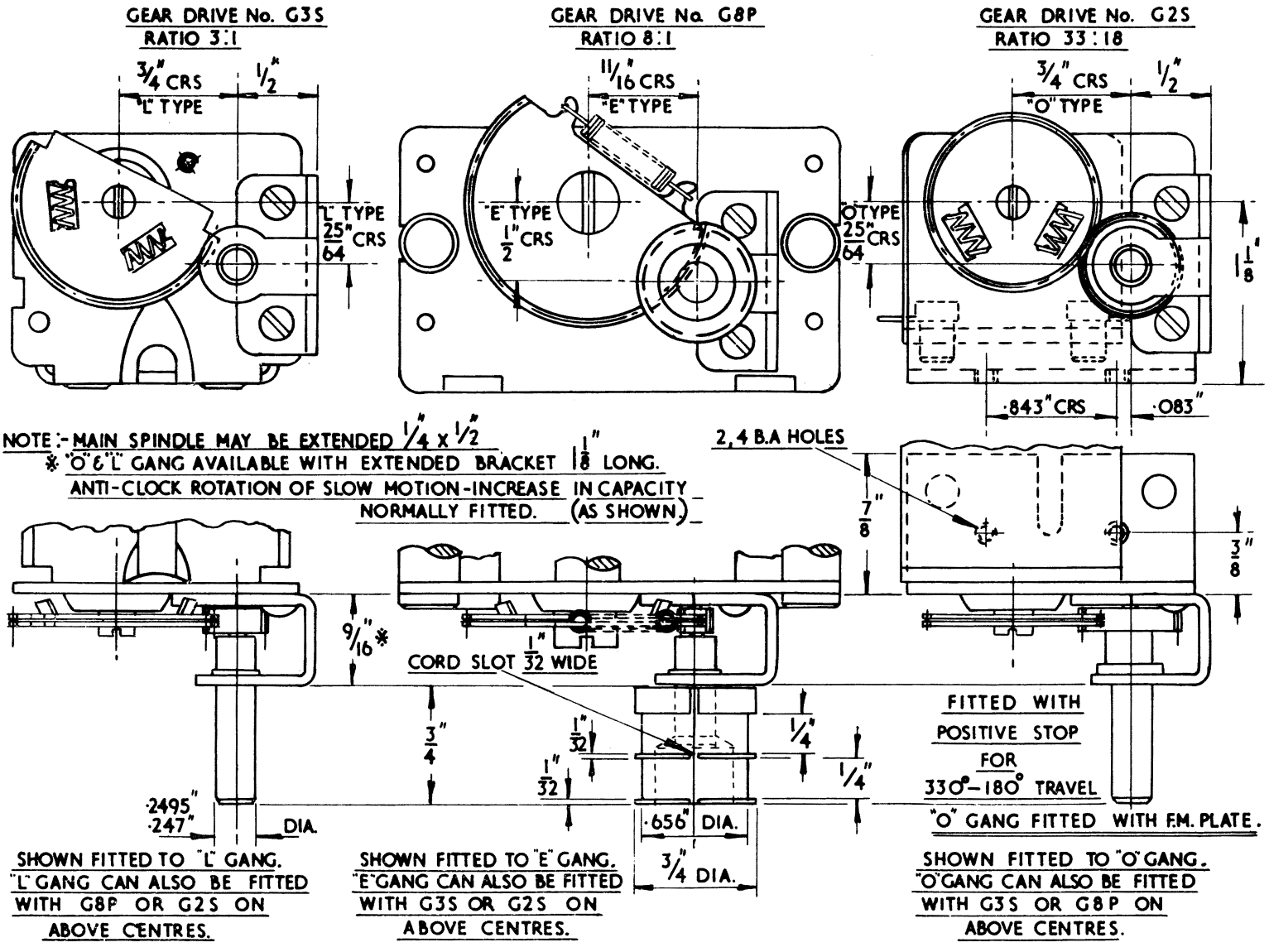
The rotor is isolated from the frame. E.-Law, see Page 99.

Positive temperature coefficient less than 100 p.p.m. per deg. C.

Finish :— DEF 5000 Tested at 750 Volts.

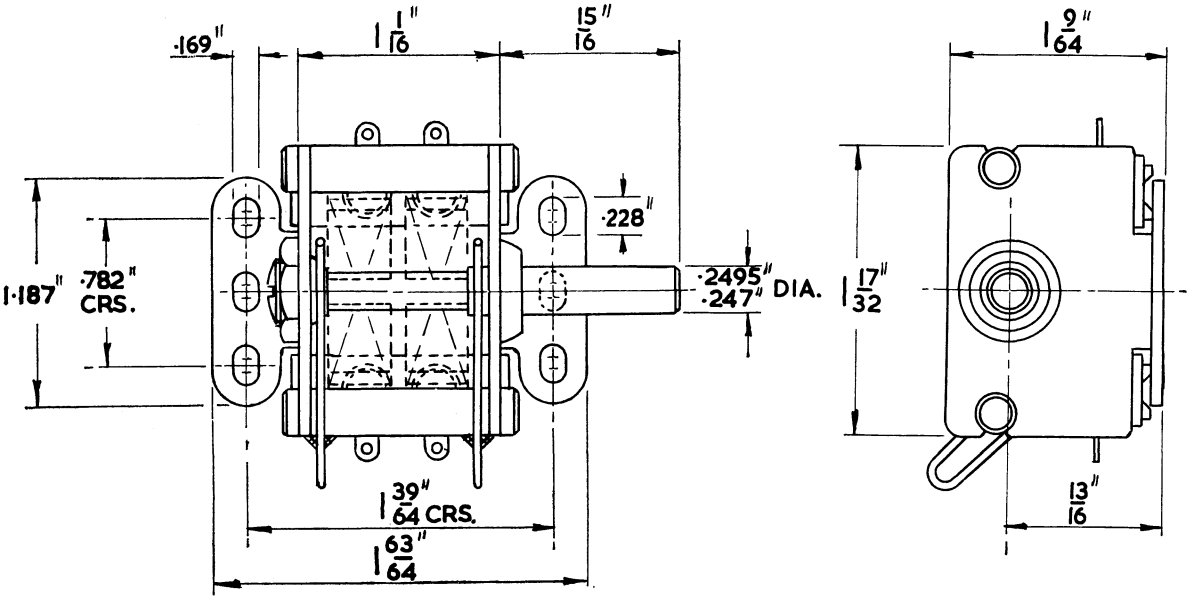
See page 93 for details of Mounting Feet available as an extra for this Capacitor.

Drawing No. 5140



The above gearing can be made applicable to the following capacitors:—
Types, O, OFM, L, L23, F, ME, E, LE, and Band Spread Gang Capacitors.

TYPE U101, U102 and U103 SPLIT STATOR CAPACITORS



Steel Screens can be inserted between the split Stators of these types to produce, 2 gang, 4 gang or 6 gang Capacitors.

These are referred to as
U101 Split Stator with Screen
U102 Split Stator with Screens
U103 Split Stator with Screens

AVAILABLE CAPACITIES

CAPACITORS WITHOUT SCREENS. (AS DRAWN.)				
MIN. CAP.	MAX. CAP.	AIR GAP	MOVING VANES	FIXED VANES
3·5 + 3·5pF	10 + 10pF	·045"	3	3
3·5 + 3·5 "	18 + 18 "	·015"	3	2
3·8 + 3·8 "	25 + 25 "	·015"	4	3
4·0 + 4·0 "	35 + 35 "	·015"	5	4
4·0 + 4·0 "	43 + 43 "	·015"	6	5

CAPACITORS WITH SCREENS FITTED.				
MIN. CAP.	MAX. CAP.	AIR GAP	MOVING VANES	FIXED VANES
5·5 + 5·5pF	12 + 12pF	·045"	3	3
5·5 + 5·5 "	20 + 20 "	·015"	3	2
5·8 + 5·8 "	27 + 27 "	·015"	4	3
6·0 + 6·0 "	37 + 37 "	·015"	5	4
6·0 + 6·0 "	45 + 45 "	·015"	6	5

SLC LAW. Positive temperature coefficient $<$ 100 p.p.m. per deg. C.

ALSO AVAILABLE WITH EXTENDED REAR SPINDLE. TYPE U101/SS/EXT

Specification:— Cadmium Plated Steel Frame Ceramic Insulation Other Parts Silver Plated Brass

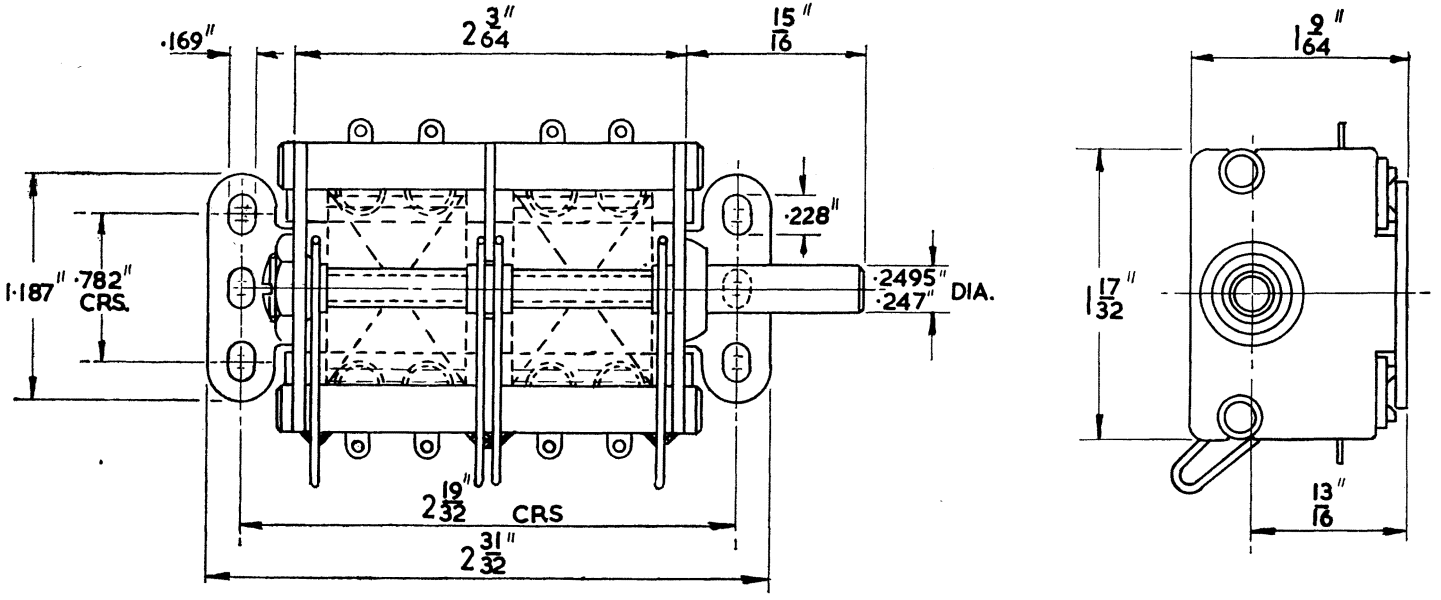
Finish:— Commercial or DEF 5000 SLC Law. Also available with Extended Rear Spindle.

U101 Split Stator Capacitor Drg. No. 5095/SS U102 Split Stator Capacitor Drg. No. 5096/SS

U103 Split Stator Capacitor Drg. No. 5096/3/SS

·015" AG Tested at 750 Volts. ·045" AG Tested at 1250 Volts

TYPE U101, U102 and U103 CAPACITORS



AVAILABLE CAPACITIES

MIN. CAP	MAX. CAP.	AIR GAP	MOVING VANES	FIXED VANES
7 pF	100 pF	·015"	13	12
6 "	75 "	·015"	10	9
5 "	50 "	·015"	7	6
5 "	20 "	·045"	7	6
3·5 "	15 "	·045"	6	6
3 "	10 "	·045"	4	3

NOTE:—
U101 indicates 1 gang
U102 indicates 2 gang
U103 indicates 3 gang

SLC LAW — Positive temperature coefficient < 100 p.p.m. per deg. C.

ALSO AVAILABLE WITH EXTENDED REAR SPINDLE. TYPE U102/EXT

Specification:— as Split Stator Capacitor. Finish:— as Split Stator Capacitor. SLC Law.
Type U101 Cap Drg. No. 5095. U102 Cap Drg. No. 5096. U103 Cap Drg. No. 5096/3
·015" AG Tested at 750 Volts. ·045" AG Tested at 1250 Volts.