

Concerning
DUBILIER
 Capacitors

WILLIAM DUBILIER
 339 GARDEN ROAD
 PALM BEACH, FLORIDA 33480

No. GC. 251.

FEBRUARY, 1951

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DUBILIER CONDENSER CO. (1925) LTD.

DUCON WORKS, VICTORIA ROAD, NORTH ACTON, LONDON, W.3, ENGLAND

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Telegrams: Hivoltecon Wesphone London

Cables: Hivoltecon, London, Marconi International Code

Foreword

THIS catalogue is intended to give in abridged form details of the extensive range of Dubilier capacitors which are available through the recognised channels at Home and Overseas.

IN addition, some information is given which will be of interest to Electronic and Radio Engineers, but this will be supplemented by a new technical publication in the near future. Meanwhile, the services of our Technical Departments are at the disposal of our customers to give them any information which they may require.

DUBILIER capacitors are available in a wide variety of designs to meet the most stringent requirements in the Television, Radio, Radar, Electronic and Industrial Engineering fields. Therefore, your enquiries will be welcomed and receive immediate and expert attention.

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MOULDED MICA CAPACITORS

STACKED FOIL

The well-known advantages of the Dubilier moulded mica construction have been enhanced by further development in production technique so that all the generally required capacitance values and voltage ratings are available in only three sizes.

They are wax impregnated and coated, assuring a complete hermetic seal and forming extremely robust, compact, and small mica capacitors.

TYPE 635 350 VOLTS D.C. WORKING Capacitance Tolerance $\pm 20\%$

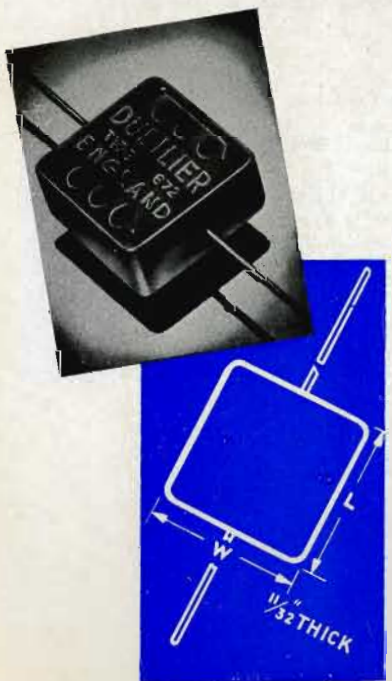
Capacitance μF	Dimensions			Retail Price
	Length	Width	Thickness	
0.0001	$\frac{11}{16}$ "	$\frac{7}{16}$ "	$\frac{7}{32}$ "	1/2
0.0002	$\frac{11}{16}$ "	$\frac{7}{16}$ "	$\frac{7}{32}$ "	1/2
0.0003	$\frac{11}{16}$ "	$\frac{7}{16}$ "	$\frac{7}{32}$ "	1/2
0.0005	$\frac{11}{16}$ "	$\frac{7}{16}$ "	$\frac{7}{32}$ "	1/6
0.001	$\frac{11}{16}$ "	$\frac{7}{16}$ "	$\frac{7}{32}$ "	1/9

20 SWG Wire terminals $1\frac{1}{4}$ " long.

TYPE 672 350 VOLTS D.C., WORKING. Capacitance Tolerance $\pm 20\%$

Capacitance μF	Dimensions			Retail Price
	Length	Width	Thickness	
0.002	$\frac{33}{64}$ "	$\frac{33}{64}$ "	$\frac{11}{32}$ "	2/3
0.003	$\frac{33}{64}$ "	$\frac{33}{64}$ "	$\frac{11}{32}$ "	2/6
0.004	$\frac{33}{64}$ "	$\frac{33}{64}$ "	$\frac{11}{32}$ "	3/-
0.005	$\frac{33}{64}$ "	$\frac{33}{64}$ "	$\frac{11}{32}$ "	3/-
0.006	$\frac{33}{64}$ "	$\frac{33}{64}$ "	$\frac{11}{32}$ "	3/-
0.01	$\frac{33}{64}$ "	$\frac{33}{64}$ "	$\frac{11}{32}$ "	4/6

20 SWG Wire terminals $1\frac{1}{4}$ " long



MOULDED MICA CAPACITORS

TYPE 680 750 volts D.C. working Capacitance Tolerance $\pm 20\%$

Capacitance μF	Dimensions			Retail Price
	Length	Width	Thickness	
0.005	$\frac{9}{16}$ "	$\frac{11}{32}$ "	$\frac{5}{16}$ "	6/-
0.006	$\frac{9}{16}$ "	$\frac{11}{32}$ "	$\frac{5}{16}$ "	6/6
0.007	$\frac{9}{16}$ "	$\frac{11}{32}$ "	$\frac{5}{16}$ "	6/6
0.008	$\frac{9}{16}$ "	$\frac{11}{32}$ "	$\frac{5}{16}$ "	6/6
0.01	$\frac{9}{16}$ "	$\frac{11}{32}$ "	$\frac{5}{16}$ "	6/6
*0.02	$\frac{9}{16}$ "	$\frac{11}{32}$ "	$\frac{5}{16}$ "	6/6

* 350 volts D.C. working 1000 volts D.C. Test.

TYPE 680 2000 volts D.C. working Capacitance Tolerance $\pm 20\%$

Capacitance μF	Dimensions			Retail Price
	Length	Width	Thickness	
0.0001	$\frac{9}{16}$ "	$\frac{11}{32}$ "	$\frac{5}{16}$ "	4/6
0.0002	$\frac{9}{16}$ "	$\frac{11}{32}$ "	$\frac{5}{16}$ "	5/-
0.0003	$\frac{9}{16}$ "	$\frac{11}{32}$ "	$\frac{5}{16}$ "	5/6
0.0005	$\frac{9}{16}$ "	$\frac{11}{32}$ "	$\frac{5}{16}$ "	6/-
0.001	$\frac{9}{16}$ "	$\frac{11}{32}$ "	$\frac{5}{16}$ "	6/6
0.002	$\frac{9}{16}$ "	$\frac{11}{32}$ "	$\frac{5}{16}$ "	7/-
0.0025	$\frac{9}{16}$ "	$\frac{11}{32}$ "	$\frac{5}{16}$ "	7/6

SILVERED MICA

These capacitors consist of one or more carefully selected and processed mica sheets, silvered by a new technique to form the electrodes, and to which suitable terminals are bonded. They are moulded in a special phenolic resin compound of natural colour with red fleck, wax impregnated and coated to provide a complete hermetic seal.

TYPE S635 350 V. D.C. WORKING

Capacitance pF	Dimensions			Retail Price			
	Length	Width	Thickness	$\pm 20\%$	$\pm 10\%$	$\pm 5\%$	$\pm 2\%$
5 to 100	$\frac{11}{16}$ "	$\frac{7}{16}$ "	$\frac{7}{32}$ "	1/4	1/6	1/8	2/-
101 to 200	$\frac{11}{16}$ "	$\frac{7}{16}$ "	$\frac{7}{32}$ "	1/4	1/6	1/8	2/-
201 to 300	$\frac{11}{16}$ "	$\frac{7}{16}$ "	$\frac{7}{32}$ "	1/4	1/6	1/8	2/-
301 to 500	$\frac{11}{16}$ "	$\frac{7}{16}$ "	$\frac{7}{32}$ "	1/4	1/6	1/8	2/-
501 to 1500	$\frac{11}{16}$ "	$\frac{7}{16}$ "	$\frac{7}{32}$ "	1/6	1/8	2/-	2/6

20 SWG. Wire terminals $1\frac{1}{4}$ " long.

* Or 2pF whichever is the greater.

General Data

Capacitance Tolerance
 Basic ... $\pm 10\%$
 Intermediate ... $\pm 5\%$
 Close ... $\pm 2\%$
 But in no case closer than $\pm 2\text{pF}$.

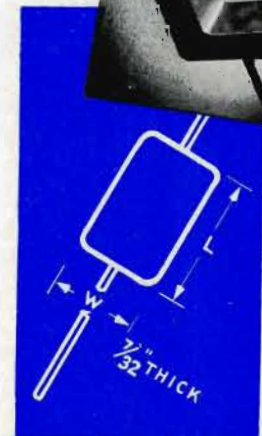
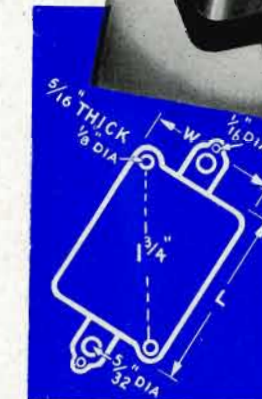
Power Factor

Maximum Power Factor ... 0.001
 Frequency of Measurement 1 Mc/s

Temperature Coefficient

Less than 120 parts per million per $^{\circ}\text{C}$

A.C. Loading. Owing to the constructional limitations of the silvered mica capacitors it is recommended that the Stacked Foil, Moulded Mica types be used where the A.C. loading is not negligible.



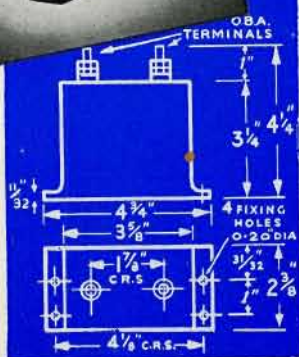
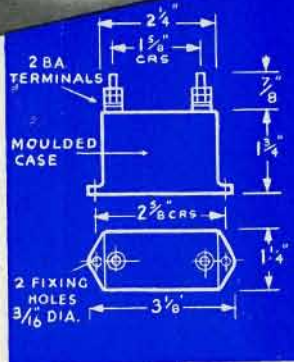
TRANSMITTING MICA DIELECTRIC CAPACITORS

Mica dielectric capacitors have found universal application in most transmitting circuits, on account of the good dielectric properties of the best mica.

Pioneers in the design and manufacture of mica capacitors of all kinds—from the largest in the world to the smallest—Dubilier have perfected a manufacturing technique, born of many years' practical experience, which produces capacitors with high Q, low power factor, high insulation resistance and stability over a wide range of operating frequencies and temperatures.

TRANSMITTING MICA CAPACITORS IN MOULDED CONTAINERS SOLID FILLED

Two popular and convenient transmitting capacitors for use in small transmitters and similar electronic apparatus are the types 780 and 1059. They comprise skilfully clamped mica dielectric capacitor units, mounted in moulded phenolic resin containers, solid filled and sealed with high melting point compound and having substantial screw terminals.



Catalogue Reference	780	
Maximum kVA.	3.3	
„ RMS. Current	5.0 Amperes	
„ RMS. Volts	1800	
„ Peak Volts (A.C. and D.C.)	6000	
„ D.C. Test Volts	12000	
Normal Capacitance tolerance	±10% or ±5%.	
Maximum Capacitance	Maximum D.C. Voltage	Maximum A.C. Voltage
0.05 μF	1.0 kV.	0.3 kV.
0.01 „	2.0 „	0.6 „
0.005 „	3.0 „	0.9 „
0.0025 „	4.0 „	1.2 „
0.0015 „	4.5 „	1.5 „
0.00125 „	6.0 „	1.8 „

Catalogue Reference	1059	
Maximum Loading	3.5 kVA	
„ RMS current	5.0 Amperes	
„ RMS Volts	3,000	
„ Peak Volts (A.C. and D.C.)	12,000	
„ D.C. Test Volts	24,000	
Normal Capacitance tolerance	±10% or ±5%.	
Maximum Capacitance	Maximum D.C. Volts. Wkg.	Maximum A.C. Volts Wkg.
0.5 μF	1.0 kV.	0.3 kV. RMS.
0.125 „	2.0 „	0.6 „
0.05 „	3.0 „	0.9 „
0.03 „	4.0 „	1.2 „
0.02 „	5.0 „	1.5 „
0.10 „	6.0 „	1.8 „
0.008 „	7.0 „	2.1 „
0.006 „	8.0 „	2.4 „
0.005 „	9.0 „	2.7 „
0.004 „	10.0 „	3.0 „
0.003 „	11.0 „	3.0 „
0.002 „	12.0 „	3.0 „

Prices are available upon application

TRANSMITTING MICA DIELECTRIC CAPACITORS

IN PORCELAIN POTS SOLID FILLED

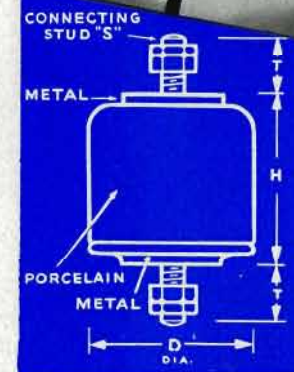
The types 1923 to 1953 have similar clamped and processed capacitor units mounted in substantial cylindrical porcelain pots, solid filled and sealed with high melting point compound and having large surface area contact terminals.

Catalogue Ref. Max. kVA. Loading Max. R.M.S. Amps.	1923 40 30	1933 25 20	1943 15 12	1953 5 10	
Max. D.C. kV. Wkg.	Max. A.C. RMS kV.	Maximum Capacitance	Maximum Capacitance	Maximum Capacitance	Maximum Capacitance
1.0	0.3	3.5 μF	1.0 μF	0.25 μF	0.03 μF
2.0	0.6	0.9 „	0.25 „	0.04 „	0.008 „
3.0	0.9	0.4 „	0.1 „	0.025 „	0.003 „
4.0	1.2	0.2 „	0.06 „	0.015 „	0.0015 „
5.0	1.5	0.125 „	0.04 „	0.01 „	0.001 „
6.0	1.8	0.1 „	0.028 „	0.006 „	0.0006 „
7.0	2.1	0.07 „	0.02 „	0.005 „	0.0005 „
8.0	2.4	0.05 „	0.015 „	0.004 „	0.0003 „
9.0	2.7	0.04 „	0.012 „	0.003 „	0.00025 „
10.0	3.0	0.032 „	0.01 „	0.002 „	0.0002 „
11.0	3.3	0.028 „	0.008 „	0.0016 „	0.00015 „
12.0	3.6	0.023 „	0.007 „	0.0014 „	0.00012 „
13.0	3.9	0.02 „	0.006 „	0.0012 „	0.0001 „
14.0	4.2	0.017 „	0.005 „	0.001 „	„
15.0	4.5	0.015 „	0.004 „	0.0009 „	„
18.0	5.4	0.01 „	0.003 „	0.0006 „	„
20.0	6.0	0.008 „	0.0025 „	0.0005 „	„
22.0	6.6	0.007 „	0.002 „	0.00035 „	„
25.0	7.5	0.005 „	0.0015 „	0.0003 „	„
30.0	9.0	0.0035 „	0.001 „	0.0002 „	„
35.0	11.0	0.0025 „	0.0008 „	„	„
40.0	12.0	0.002 „	„	„	„
45.0	13.5	0.0015 „	„	„	„
50.0	15.0	0.0012 „	„	„	„

Capacitance Tolerance Normal: ±10%. Close ±5%.

Drg. Ref.	1923	1933	1943	1953
D	5 11/16" dia.	3 3/4" dia.	2 3/4" dia.	2 3/8" dia.
H	10 3/8" ± 1/16"	5 11/16" ± 1/16"	3 11/16" ± 1/16"	2 1/2" ± 1/16"
T	2 3/32"	1"	3/4"	3/4"
S	3/4" dia. × 16T.P.I.	3/8" Whit.	3/8" Whit.	5/16" Whit.
Weight	23 lbs.	5 lbs.	2 1/4 lbs.	1 lb.

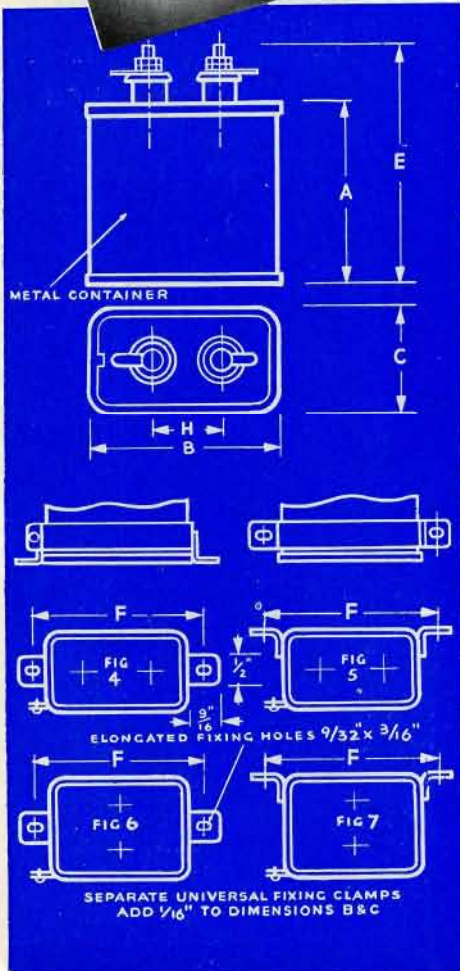
Prices are available upon application



NITROGOL CAPACITORS FULLY TROPICAL

Resulting from an intensive investigation to comply with the demands for paper capacitors to withstand arduous conditions of vibration, humidity, diversity of temperature and atmospheric pressure in widely different parts of the world, these Nitrogol Capacitors were developed.

Skilfully designed elements submitted to a special Dubilier process, are assembled in robust containers suitable for their required application and they can be mounted in several ways. The terminals are moulded phenolic resin, silicone rubber sealed, or may be ceramic, solder sealed.



350 VOLTS D.C. WORKING AT 71°C. Capacitance Tolerance ±20%

Capacitance μ F	Dimensions							Retail Price
	A	B	C	E	F	H	Fig. No.	
2	2 $\frac{7}{16}$ "	1 $\frac{7}{8}$ "	1 $\frac{1}{8}$ "	3 $\frac{1}{16}$ "	2 $\frac{1}{2}$ "	$\frac{3}{4}$ "	4 or 5	13/6
4	2 $\frac{7}{16}$ "	2 $\frac{3}{8}$ "	2 $\frac{3}{8}$ "	3 $\frac{1}{16}$ "	3"	$\frac{3}{4}$ "	4 or 5	17/6
8	4 $\frac{9}{16}$ "	1 $\frac{7}{8}$ "	1 $\frac{1}{8}$ "	5 $\frac{1}{8}$ "	2 $\frac{1}{2}$ "	$\frac{3}{4}$ "	4 or 5 6 or 7	22/6
12	4 $\frac{9}{16}$ "	2 $\frac{5}{8}$ "	1 $\frac{3}{8}$ "	5 $\frac{1}{8}$ "	3 $\frac{1}{4}$ "	$\frac{3}{4}$"			4 or 5	25/-

750 VOLTS D.C. WORKING AT 71°C. Capacitance Tolerance ±20%

Capacitance μ F	Dimensions							Retail Price
	A	B	C	E	F	H	Fig. No.	
1	2 $\frac{7}{16}$ "	2"	$\frac{3}{4}$ "	3 $\frac{1}{16}$ "	2 $\frac{5}{8}$ "	$\frac{3}{4}$ "	4 or 5	13/6
2	2 $\frac{7}{16}$ "	1 $\frac{7}{8}$ "	1 $\frac{1}{8}$ "	3 $\frac{1}{16}$ "	2 $\frac{1}{2}$ "	$\frac{3}{4}$ "	4 or 5	17/6
4	4 $\frac{9}{16}$ "	1 $\frac{7}{8}$ "	1 $\frac{1}{8}$ "	5 $\frac{1}{8}$ "	2 $\frac{1}{2}$ "	$\frac{3}{4}$ "	4 or 5 6 or 7	22/-
8	4 $\frac{9}{16}$ "	3 $\frac{1}{8}$ "	1 $\frac{5}{8}$ "	5 $\frac{1}{8}$ "	3 $\frac{3}{4}$ "	$\frac{3}{4}$"			4 or 5	32/-

NITROGOL CAPACITORS

1250 VOLTS D.C. WORKING AT 71°C. Capacitance Tolerance ±20%

Capacitance μ F	Dimensions						Retail Price	
	A	B	C	E	F	H		
0.1	2 $\frac{7}{16}$ "	1 $\frac{3}{4}$ "	$\frac{3}{4}$ "	3 $\frac{1}{16}$ "	2 $\frac{3}{8}$ "	$\frac{3}{4}$ "	4 or 5	12/6
0.25	2 $\frac{7}{16}$ "	2"	$\frac{3}{4}$ "	3 $\frac{1}{16}$ "	2 $\frac{5}{8}$ "	$\frac{3}{4}$ "	4 or 5	13/6
0.5	2 $\frac{7}{16}$ "	2 $\frac{3}{8}$ "	1 $\frac{1}{4}$ "	3 $\frac{1}{16}$ "	2 $\frac{3}{4}$ "	$\frac{3}{4}$ "	4 or 5	14/6
1	2 $\frac{7}{16}$ "	1 $\frac{7}{8}$ "	2 $\frac{1}{8}$ "	3 $\frac{1}{16}$ "	2 $\frac{3}{4}$ "	$\frac{3}{4}$ "	6 or 7	17/-
2	4 $\frac{9}{16}$ "	1 $\frac{7}{8}$ "	1 $\frac{7}{8}$ "	5 $\frac{1}{8}$ "	2 $\frac{1}{2}$ "	$\frac{3}{4}$ "	6 or 7	22/6
4	4 $\frac{9}{16}$ "	3 $\frac{3}{8}$ "	2 $\frac{3}{8}$ "	5 $\frac{1}{8}$ "	4"	1 $\frac{1}{2}$ "	4 or 5	35/-
8	4 $\frac{9}{16}$ "	3 $\frac{7}{8}$ "	5 $\frac{1}{8}$ "	5 $\frac{1}{8}$ "	5 $\frac{3}{4}$ "	1 $\frac{3}{4}$ "	6 or 7	60/-

1500 VOLTS D.C. WORKING AT 71°C. Capacitance Tolerance ±20%

Capacitance μ F	Dimensions						Retail Price	
	A	B	C	E	F	H		
0.1	2 $\frac{7}{16}$ "	1 $\frac{3}{4}$ "	$\frac{3}{4}$ "	3 $\frac{1}{16}$ "	2 $\frac{3}{8}$ "	$\frac{3}{4}$ "	4 or 5	13/6
0.25	2 $\frac{7}{16}$ "	2"	$\frac{3}{4}$ "	3 $\frac{1}{16}$ "	2 $\frac{5}{8}$ "	$\frac{3}{4}$ "	4 or 5	14/6
0.5	2 $\frac{7}{16}$ "	1 $\frac{7}{8}$ "	1 $\frac{7}{8}$ "	3 $\frac{1}{16}$ "	2 $\frac{1}{2}$ "	$\frac{3}{4}$ "	4 or 5 6 or 7	15/6
1	2 $\frac{7}{16}$ "	2 $\frac{3}{8}$ "	2 $\frac{1}{8}$ "	3 $\frac{1}{16}$ "	3"	$\frac{3}{4}$"			4 or 5	19/6
2	4 $\frac{9}{16}$ "	2 $\frac{3}{8}$ "	1 $\frac{5}{8}$ "	5 $\frac{1}{8}$ "	3 $\frac{1}{4}$ "	$\frac{3}{4}$ "	4 or 5	23/6
4	4 $\frac{9}{16}$ "	3 $\frac{3}{8}$ "	2 $\frac{3}{8}$ "	5 $\frac{1}{8}$ "	4"	1 $\frac{1}{2}$ "	4 or 5	36/6
8	4 $\frac{9}{16}$ "	3 $\frac{7}{8}$ "	5 $\frac{1}{8}$ "	5 $\frac{1}{8}$ "	5 $\frac{3}{4}$ "	1 $\frac{3}{4}$ "	6 or 7	61/6

Prices for other working voltages upon application



NITROGOL CAPACITORS

FULLY TROPICAL SHALLOW DRAWN STEEL CONTAINER TYPES

A special form of Nitrogol Capacitors is available for applications where head-room is limited or for shallow under-chassis mounting.

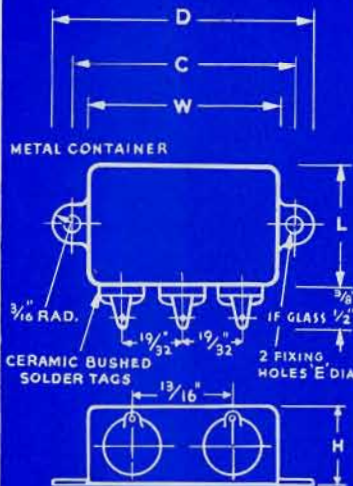
These capacitors are in shallow drawn containers, and the moulded phenolic resin terminals, silicone rubber sealed, are mounted on the side.

400 VOLTS D.C. WORKING AT 71°C. Capacitance Tolerance $\pm 20\%$

Capacitance μF	Dimensions							Box No.	Retail Price
	W	L	H	C	D	E			
0.25	1.812	1.000	0.750	2.187	2.562	0.187	2	12/-	
0.1+0.1+0.1	..	1.250	..	..	..	..	3	14/-
0.5	1.812	1.250	0.750	2.187	2.562	0.187	3	13/6	
0.25+0.25	..	..	..	..	..	..	3	14/6
0.25+0.25+0.25	2.000	1.750	0.875	2.375	2.750	0.187	4	18/6	
1	..	..	..	..	..	..	4	17/-
0.5+0.5	..	..	..	..	..	..	4	17/-
0.5+0.5+0.5	2.000	2.000	1.125	2.375	2.750	0.187	5	22/-	
2	..	..	..	..	..	..	5	22/6
1+1	..	..	..	..	..	..	5	23/-

800 VOLTS D.C. WORKING AT 71°C. Capacitance Tolerance $\pm 20\%$

Capacitance μF	Dimensions							Box No.	Retail Price
	W	L	H	C	D	E			
0.05+0.05+0.05	1.812	1.000	0.750	2.187	2.562	0.187	2	14/6	
0.1+0.1	..	..	..	..	..	..	2	12/6
0.25	1.812	1.250	0.750	2.187	2.562	0.187	3	13/-	
0.1+0.1+0.1	..	..	..	..	..	..	3	16/-
0.5	2.000	1.750	0.875	2.375	2.750	0.187	4	15/6	
0.25+0.25	..	..	..	..	..	..	4	16/-
0.25+0.25+0.25	2.000	2.000	1.125	2.375	2.750	0.187	5	21/-	
1	..	..	..	..	..	..	5	18/6
0.5+0.5	..	..	..	..	..	..	5	18/6



NITROGOL CAPACITORS

SHALLOW DRAWN STEEL CONTAINER TYPES

1000 VOLTS D.C. WORKING AT 71°C. Capacitance Tolerance $\pm 20\%$

Capacitance μF	Dimensions in Inches							Box No.	Retail Price
	W	L	H	C	D	E			
0.05	1.812"	1.000"	0.750"	2.187"	2.562"	0.187"	2	10/6	
0.1	"	"	"	"	"	"	2	15/-	
0.05+0.05	"	"	"	"	"	"	2	12/-	
0.05+0.05+0.05	1.812"	1.250"	0.750"	2.187"	2.562"	0.187"	3	14/-	
0.1+0.1	2.000"	1.750"	0.875"	2.375"	2.750"	"	4	13/-	
0.25	2.000"	2.000"	1.125"	2.375"	2.750"	0.187"	5	14/-	

MINIATURE NITROGOL CAPACITORS 600 VOLTS D.C. WORKING AT 71°C. Capacitance Tolerance $\pm 20\%$

Capacitance μF	Dimensions in Inches							Box No.	Retail Price
	W	L	H	C	D	E			
0.25	1.812"	1.000"	0.750"	2.187"	2.562"	0.187"	2	14/-	
0.5	2.000"	1.750"	0.875"	2.375"	2.750"	0.187"	4	16/-	
0.25+0.25	"	"	"	"	"	"	4	18/-	
0.25+0.25+0.25	2.000"	1.750"	0.875"	2.375"	2.750"	0.187"	4	21/-	
1	"	"	"	"	"	"	4	21/-	
0.1+0.1+0.1	1.812"	1.250"	0.750"	2.187"	2.562"	0.187"	3	17/-	

The maximum number of insulated terminals which normally can be provided is 3. Therefore, all units containing three capacitances have their common connection on the metal case. Units comprising two capacitances can be supplied either with two or three insulated terminals, in the former, the case is the common connection.

Special arrangements and ratings in these containers can be supplied to order for large quantities.

NITROGOL HIGH VOLTAGE TELEVISION CAPACITORS

A range of Nitrogol Capacitors for Television and other small ripple high-tension applications are available in cylindrical forms. They are assembled in solid drawn cylindrical aluminium containers forming one terminal and with a gasket sealed moulded bakelite high-tension terminal. These capacitors are furnished with detachable clamp fixing feet for vertical or inverted mounting.

In Cylindrical Containers 71°C. Operating Temperature
Capacitance Tolerance $\pm 20\%$

Capacitance μF	D.C. Rating		Dimensions					Retail Price
	Wkg.	Test	A	B	D	E	F	
0.01	8 kV.	16 kV.	3 $\frac{5}{8}$ "	1 $\frac{1}{2}$ "	2 $\frac{11}{32}$ "	5 $\frac{1}{8}$ "	1 $\frac{31}{32}$ "	10/6
0.02	8 "	16 "	"	"	"	"	"	14/-
0.05	8 "	16 "	5 $\frac{1}{8}$ "	"	"	6 $\frac{3}{8}$ "	"	14/6
0.1	7 "	14 "	"	"	"	"	"	18/6
0.2	5 "	10 "	"	"	"	"	"	24/-

Where the C.R.T. D.C. is derived from a H.F. oscillator or from a Fly-back voltage, the smaller capacitance required enables the capacitor to be of smaller physical size. These capacitors have been specially designed for this purpose and comprise a Nitrogol processed tubular paper dielectric element assembled in a glazed ceramic tube, to the platinised ends of which metal end cap terminals are soldered providing hermetic sealing.

In Glazed Ceramic Tubes. 71°C. Operating Temperature
Capacitance Tolerance $\pm 20\%$

Capacitance μF	D.C. Rating		Style	Retail Price
	Wkg.	Test		
0.025	2 kV.	4 kV.	1A	5/-
0.01	4 "	8 "	"	5/-
0.005	5 "	10 "	"	7/6
0.0025	7 "	14 "	"	7/6
0.002	8 "	16 "	"	7/6
0.0015	9 "	18 "	"	7/6
0.001	10 "	20 "	"	7/6

DRILITIC ELECTROLYTIC CAPACITORS

The phenomenal success of Dubilier Drilitic Capacitors has established them as the highest development in Electrolytic Capacitor Engineering.

They have small D.C. leakage and equivalent series resistance, high breakdown voltage and improved temperature characteristics and radio and audio frequency impedance.

These superior electrical characteristics co-ordinated to give a well balanced function and long life expectancy, together with the considerable reduction in physical size contribute to their wide popularity and success in all applications.

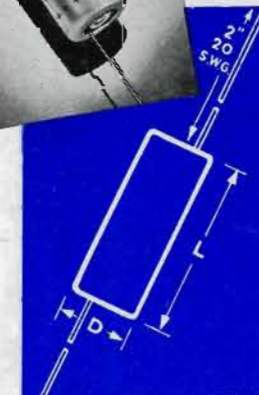
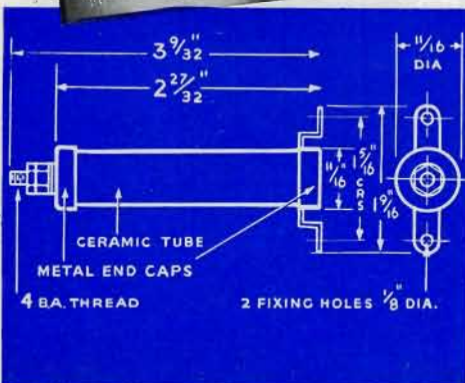
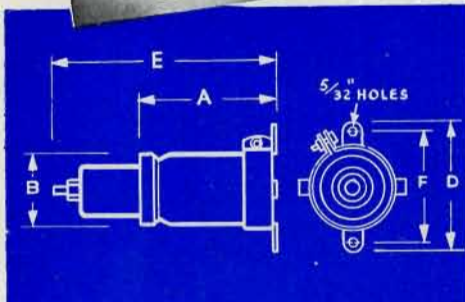
"Drilitic" capacitors are designed to operate for extended periods in an ambient temperature of 80°C. without detrimental change in their electrical characteristics. Where the ambient temperature is likely to exceed 80°C., the use of a capacitor having a voltage rating of 50 volts greater than would be employed normally, is recommended.

The BR. Drilitic capacitors are assembled and sealed in seamless drawn aluminium containers, which are always negative, and they are covered with an insulating tube and have tinned wire terminals at both ends. The construction ensures that the electrolyte cannot contact any other than high purity film-forming metal.

TYPE BR

Cat. Ref.	Cap. μF	Max. D.C. Wkg. Volts	Size Ins.		Max. Ripple Current m.A at 100 c/s	Retail Price
			D	L		
BR.501	50	12	5/8	1 1/2	55	2/6
BR.1001	100	12	5/8	1 1/2	180	2/9
BR.102A	10	25	5/8	1 1/2	35	2/6
BR.252A	25	25	5/8	1 1/2	75	2/6
BR.502A	50	25	5/8	1 1/2	180	2/9
BR.1002A	100	25	5/8	2	200	3/6
BR.105	10	50	5/8	1 1/2	45	2/6
BR.255	25	50	5/8	1 1/2	100	2/9
BR.505	50	50	5/8	2	190	3/6
BR.415	4	150	5/8	1 1/2	65	2/6
BR.815	8	150	5/8	1 1/2	110	2/9
BR.1615	16	150	5/8	1 1/2	150	3/-
BR.3015	30	150	5/8	2	190	4/-
BR.5015	50	150	5/8	2 1/2	210	5/-
BR.8015	80	150	5/8	2 1/2	240	8/6
BR.425	4	250	5/8	1 1/2	65	2/9
BR.825	8	250	5/8	2	100	3/3
BR.1625	16	250	5/8	2	140	4/-
BR.4025	40	250	5/8	2 1/2	175	5/-
BR.435	4	350	5/8	1 1/2	70	3/-
BR.835	8	350	5/8	2	100	3/6
BR.1635	16	350	5/8	2	130	4/6
BR.3235	32	350	5/8	2 1/2	140	5/6
BR.150	1	500	5/8	1 1/2	50	3/-
BR.250	2	500	5/8	1 1/2	60	3/6
BR.450	4	500	5/8	2	70	3/6
BR.850	8	500	5/8	2	100	4/-
BR.1650	16	500	5/8	2 1/2	110	6/-
BR.2050	20	500	5/8	3	120	6/6
BR.3250	32	500	5/8	3	130	9/6

The insulating sleeve of BR. types adds $\frac{1}{16}$ " to the diameter and $\frac{1}{4}$ " to the length.



DRILITIC CAPACITORS IN DISPLAY CARTONS

Dubilier Drilitic Capacitors Type BR are available to the trade in attractive coloured display cartons in the following packs at no extra charge.

	Volts	Per Carton	Retail Price per capacitor
BR.450	4 μF . 500	12	3/6
BR.850	8 μF . 500	12	4/-
BR.1650	16 μF . 500	6	6/-
BR.3250	32 μF . 500	6	9/6
BR.815	8 μF . 150	12	2/9
BR.505	50 μF . 50	12	3/6
BR.252A	25 μF . 25	12	2/6
BR.501	50 μF . 12	12	2/6

DRILITIC ELECTROLYTIC CAPACITORS

The C.T. Drilitic capacitors are assembled and sealed in seamless drawn aluminium containers, which are always negative, and with tinned solder tags at one end. They are available in single and dual capacitance arrangements and the construction ensures that the electrolyte cannot contact any other than high purity film-forming metal.

TYPE CT

Cat. Ref.	Cap. μ F	Max. D.C. Wkg. Volts	Size Ins.		Max. Ripple Current m.A. at 100 c/s	Retail Price
			D	L		
CT1635	16	350	1	2	130	4/9
CTP161635*	16-16	350-350	1	2 $\frac{1}{8}$	130-130†	7/6
CT323235	32-32	350-350	1 $\frac{1}{16}$	2	140-140†	11/6
CT850	8	500	1	2	100	4/6
CT1650	16	500	1	2	110	6/6
CT3250	32	500	1 $\frac{1}{16}$	2	130	10/-
CTP8450*	8-4	500-500	1	2 $\frac{1}{8}$	100-70†	6/6
CT8850	8-8	500-500	1 $\frac{1}{16}$	2	100-100†	6/6
CT16850	16-8	500-500	1 $\frac{1}{16}$	2	110-100†	8/6
CT161650	16-16	500-500	1 $\frac{1}{16}$	2	110-110†	10/6

† Total maximum ripple current for both sections together must not exceed larger figure.

* Double ended container.

Vertical mounting brackets are supplied with all types.

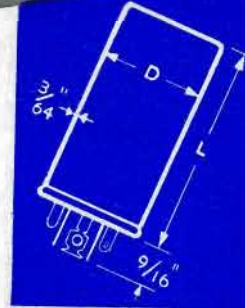
TYPE CT AND CR

Specially designed types for Television purposes. High Ripple current sections. Total ripple current for both sections must not exceed larger figure.

Type	Cap. μ F	Max. D.C. Wkg. Volts	Size Ins.		Max. Ripple Current m.A. at 100 c/s	Retail Price
			D	L		
CT	50-100	280-280	1 $\frac{1}{16}$	4	450	14/6
CR	50-100	350-350	1 $\frac{1}{16}$	4	425	16/6
CT	60-100	350-350	1 $\frac{1}{16}$	4	450	17/6
CT	50	280	1 $\frac{1}{16}$	3	450	11/6
CT	100	280	1 $\frac{1}{16}$	2	Smoothing only	12/6

Suitable mounting brackets are supplied with these items. Container negative in each instance.

DRILITIC ELECTROLYTIC CAPACITORS EAR MOUNTING TYPES



TYPES CTE AND CRE

Catalogue Reference	Cap. μ F	Max. D.C. Wkg. Volts	Size Ins.		Style	Max. Ripple Current m.A. at 100 c/s	Retail Price
			D	L			
CTE850	8	500	1	2	A	100	4/6
CTE850HR	8	500	1	2	A	†	5/6
CTE1650	16	500	1	2	A	110	7/6
CTE1650HR	16	500	1	2	A	†	9/6
CTE3250	32	500	1 $\frac{1}{16}$	2	B	130	7/6
CTE3250HR	32	500	1 $\frac{1}{16}$	2	B	†	10/6
CRE8450	8-4	500-500	1	2 $\frac{1}{8}$	A	*100-70	6/6
CTE8850	8-8	500-500	1 $\frac{1}{16}$	2	A	*100-100	6/6
CTE8950HR	8-8	500-500	1 $\frac{1}{16}$	2	B	†	7/6
CTE16850	16-8	500-500	1 $\frac{1}{16}$	2	B	*110-100	8/6
CTE16850HR	16-8	500-500	1 $\frac{1}{16}$	2	B	†	9/6
CTE161650	16-16	500-500	1 $\frac{1}{16}$	2	B	*110-110	10/6
CTE161650HR	16-16	500-500	1 $\frac{1}{16}$	2	B	†	11/6
CRE44450	4-4-4	500-500-500	1	2 $\frac{1}{8}$	A	*95-95-95	6/6
CRE88450	8-8-4	500-500-500	1	2 $\frac{1}{8}$	B	*100-100-70	7/6
CRE1616850	16-16-8	500-500-500	1	2 $\frac{1}{8}$	B	*110-110-100	10/6
CRE2416850	24-16-8	500-500-500	1	2 $\frac{1}{8}$	B	*125-110-100	12/6
CTE835HR	8	350	1	2	A	41	4/-
CTE1635	16	350	1	2	A	130	5/-
CTE1635HR	16	350	1	2	A	†	6/-
CTE3235HR	32	350	1	2	B	†	7/6
CTE163235HR	16-16	350-350	1	2	B	†	8/6
CTE321635HR	32-16	350-350	1	2	B	†	9/6
CTE323235	32-32	350-350	1	2	B	*140-140	12/6

† Denotes " High Ripple Current Construction."

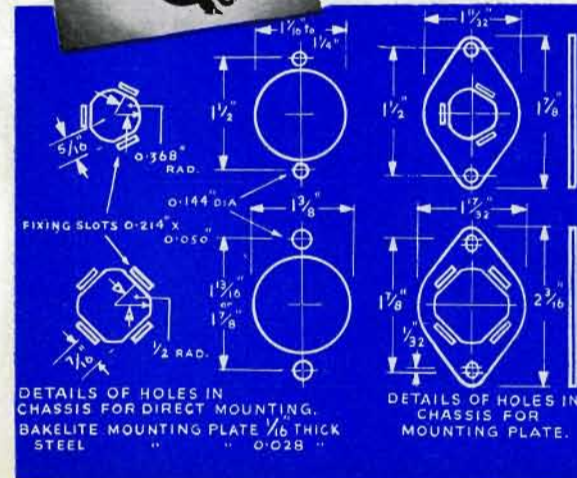
* The total maximum ripple current for all sections must not exceed the larger figure.

Mounting Plates in Bakelite for isolating capacitor from chassis ... 3d. each
Mounting Plates in Steel for replacement unit 2d. each

To enable the maximum advantage to be taken of the superior electrical characteristics and reduced physical dimensions of Dubilier Drilitic Capacitors, a new method of mounting has been evolved to provide a more rapid, efficient and space saving means of fixing the Capacitors.

With this Ear Mounting method no loose parts, clamp bands, fixing screws, nuts or rivets are required. A slight twist of the mounting ears and the Capacitor is rigidly fixed, and the diameter of the Capacitor represents the maximum chassis space occupied.

Bakelite isolating plates are supplied where the Capacitor is required to be insulated from the chassis and metal mounting plates are available with identical centres to the older types for general replacement purposes. Ear Mounting Drilitic Capacitors are available in two types CTE and CRE in single, dual and triple capacitance arrangements, in normal and high-ripple (HR) constructions.



METALLISED PAPER CAPACITORS

A useful technique permitting paper dielectric capacitors extremely compact, small in size and light in weight is adopted for these capacitors.

They comprise an extended electrode capacitor element, with a single thickness separator of dielectric tissue, metallised by a special process.

They are provided with axial tinned wire terminals soldered to the ends of the electrodes and assembled in an insulating sleeve.

Type 410, for use in normal atmospheric conditions, are subjected to a drying and impregnation process in high vacuum and finally coated with a high melting-point water repellent wax.

Type 418, has the impregnated and sleeved element mounted in a metal tube. It is hermetically sealed at the ends with neoprene faced laminated bakelite discs and the terminal wires project through centrally placed eyelets to which they are soldered.

Dimensional tolerance on length -0 +1"
 " " " diameter ±.005"
 Capacitance ±25%
 Insulation Resistance 100 ΩF at working voltage and 15°-25°C
 Power Factor 0.05 at 1,000 c/s and 15°-25°C

TYPE 410—Wax Protected Capacitance Tolerance ±25%

Capacitance μF	150 V.DC. Wkg. at 71°C.		250 V.DC. Wkg. at 71°C.		350 V.DC. Wkg. at 71°C.	
	Size D. L.	Retail Price	Size D. L.	Retail Price	Size D. L.	Retail Price
0.05	—	—	5/16" × 5/8"	1/6	7/16" × 5/8"	1/6
0.1	7/16" × 5/8"	1/6	7/16" × 5/8"	1/6	7/16" × 1/2"	1/6
0.25	7/16" × 1/2"	2/-	7/16" × 1/2"	2/3	7/16" × 1/2"	2/6
0.5	7/16" × 1/2"	2/6	7/16" × 1/2"	2/9	7/16" × 1/2"	3/3
1	7/16" × 1/2"	3/3	7/16" × 1/2"	3/9	7/16" × 2/3"	4/6
2	7/16" × 1/2"	5/-	7/16" × 2/3"	6/-	—	—

22 SWG. Wire terminals 1 1/4" long.

TYPE 418—Metal Cased Capacitance Tolerance ±25%

Capacitance μF	150 V.DC. Wkg. at 71°C.		250 V.DC. Wkg. at 71°C.		350 V.DC. Wkg. at 71°C.	
	Size D. L.	Retail Price	Size D. L.	Retail Price	Size D. L.	Retail Price
0.05	—	—	3/8" × 7/8"	2/-	3/8" × 7/8"	2/-
0.1	3/8" × 7/8"	2/-	3/8" × 7/8"	2/-	3/8" × 1 1/8"	2/-
0.25	3/8" × 1 1/8"	2/6	3/8" × 1 1/8"	2/9	3/8" × 1 1/8"	3/-
0.5	3/8" × 1 1/8"	3/-	3/8" × 1 1/8"	3/3	3/8" × 1 7/8"	3/9
1	3/8" × 1 1/8"	3/9	3/8" × 1 1/8"	4/3	3/8" × 2 1/8"	5/-
2	3/8" × 1 1/8"	5/6	3/8" × 2 1/8"	6/6	—	—

22 SWG. Wire terminals 1 1/4" long.



MINIATURE METALLISED PAPER CAPACITORS

This Dubilier development in miniaturisation consists of a Metallised Paper Capacitor unit of special construction enabling an extremely compact and small size to be achieved.

The capacitors are cylindrical in shape with axially projecting tinned wire terminals. The capacitor elements are moulded in a special phenolic resin of high insulation providing a rugged casing of great homogeneity. They have a very high insulation resistance, good capacitance stability, low effective inductance and are impervious to moisture.

They are capable of being operated over the exceptionally wide temperature range of -40°C. to +70°C. and are colour coded by the standard colour code bands giving the capacitance in micro-microfarads.

Possessing the familiar self-healing properties of metallised paper capacitors their excellent characteristics are maintained in the most arduous conditions of use.



DUBILIER MINIATURE METALLISED PAPER CAPACITORS

TYPE 400

DIMENSIONS

Length 12 mm. (0.475"). Diameter 5 mm. (0.2")

CAPACITANCE RANGE

Up to 0.003 μF. at 350V D.C. Wkg.
Over 0.003 μF. to 0.01 μF. at 150V D.C. Wkg.

CAPACITANCE TOLERANCE

Normal ± 20%. Closer tolerances are available.

CAPACITANCE STABILITY

Better than ± 2% over the temperature range.

INDUCTANCE

Less than 0.005 μH in capacitor body.

EFFECTIVE OPERATIVE FREQUENCY RANGE

50 c/s to 100 Mc/s approximately.

TEMPERATURE RANGE

- 40° C. to + 70° C.

INSULATION RESISTANCE

Better than 50,000 Megohms for all capacitance values.

Prices available to bona-fide manufacturers upon application

TUBULAR PAPER CAPACITORS

(GENERAL PURPOSE)

Dubilier tubular paper dielectric capacitors Type 460 cover the whole field of general non-tropical commercial requirements and are extremely popular.

Capacitor elements of extended foil construction with folded back connections to special metal end-caps which have integral tinned wire terminals, are assembled in insulating sleeves. The ends of the sleeves are spun over into the metal end-caps and they are then subjected to the Dubilier vacuum drying and impregnation process and double wax coated.

TYPE 460

Capacitance μF	Tolerance	D.C. Working Volts	Dimensions		Retail Price
			L*	D	
0.001	$\pm 25\%$	1000	$1\frac{3}{8}"$	$\frac{3}{8}"$	1/2
0.002	$\pm 25\%$	1000	$1\frac{3}{8}"$	$\frac{3}{8}"$	1/2
0.005	$\pm 25\%$	1000	$1\frac{3}{8}"$	$\frac{3}{8}"$	1/2
0.01	$\pm 25\%$	1000	$1\frac{3}{8}"$	$\frac{3}{8}"$	1/2
0.02	$\pm 20\%$	750	$1\frac{3}{8}"$	$\frac{3}{8}"$	1/2
0.05	$\pm 20\%$	350	$1\frac{3}{8}"$	$\frac{3}{8}"$	1/2
0.05	$\pm 20\%$	500	$1\frac{3}{8}"$	$\frac{3}{8}"$	1/2
0.1	$\pm 20\%$	350	$1\frac{3}{8}"$	$\frac{1}{2}"$	1/2
0.1	$\pm 20\%$	500	$1\frac{1}{8}"$	$\frac{1}{2}"$	1/4
0.1	$\pm 20\%$	1000	$2\frac{3}{16}"$	$\frac{3}{4}"$	1/9
0.25	$\pm 20\%$	350	$1\frac{1}{8}"$	$\frac{3}{4}"$	1/6
0.25	$\pm 20\%$	500	$2\frac{3}{16}"$	$\frac{3}{4}"$	1/9
0.5	$\pm 20\%$	350	$2\frac{3}{16}"$	$\frac{3}{4}"$	2/-
0.5	$\pm 20\%$	500	$2\frac{3}{16}"$	1"	2/6
1.0	$\pm 20\%$	350	$2\frac{3}{16}"$	1"	3/-

Capacitors rated at 500 V. D.C. Wkg. or more may be used at not exceeding 250 V. RMS. at frequencies not exceeding 100 c/s.

On mixed loading the peak of A.C. should not exceed 10% of the applied D.C. Voltage for any item in the range.

* Dimensional tolerance on length $\pm 0\text{--}\frac{1}{16}"$



TUBULAR PAPER CAPACITORS

TYPE 419

The Type 419 tubular paper dielectric capacitor is wax impregnated and sealed and is of small physical dimensions. Extended foil construction is employed, which, together with the short length of the capacitor, makes it particularly suitable for use as a high frequency by-pass device for television and similar applications.

Capacitance range : 0.001 μF . to 0.01 μF .

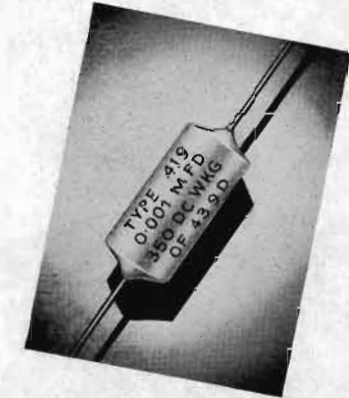
Capacitance tolerance : $\pm 20\%$.

Dimensions : Length $\frac{3}{8}"$, dia. $\frac{1}{8}"$.

Working voltage : 350 volts D.C.

Test voltage : 1,000 volts D.C.

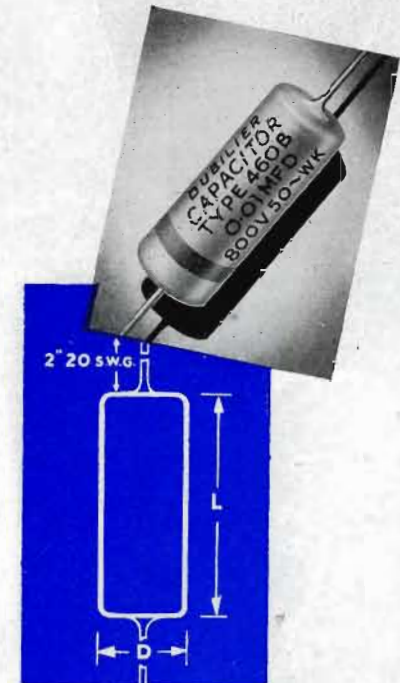
Prices available to bona-fide manufacturers upon application



TYPE 460B FOR A.C. WORKING

These Capacitors are similar in general construction to the type 460 but the elements are of the sub-divided dielectric pattern to limit the A.C. voltage between electrodes. They are designed to withstand the peculiar wave forms and voltage peaks encountered in vibrator power-packs and other such apparatus.

Capacitance μF	Tolerance	Working Volts A.C.	Dimensions		Retail Price
			L	D	
0.01	$\pm 25\%$	800	$1\frac{3}{8}"$	$\frac{1}{2}"$	2/3
0.006	$\pm 25\%$	800	$1\frac{3}{8}"$	$\frac{1}{2}"$	2/-
0.05	$\pm 20\%$	600	$2\frac{3}{16}"$	$\frac{3}{4}"$	2/3
0.02	$\pm 20\%$	600	$1\frac{1}{8}"$	$\frac{1}{2}"$	2/-
0.05	$\pm 20\%$	300	$1\frac{3}{8}"$	$\frac{1}{2}"$	1/6
0.01	$\pm 25\%$	300	$1\frac{1}{4}"$	$\frac{3}{8}"$	1/6
0.005	$\pm 25\%$	300	$1\frac{1}{4}"$	$\frac{3}{8}"$	1/6



TUBULAR PAPER CAPACITORS

(TROPICAL)

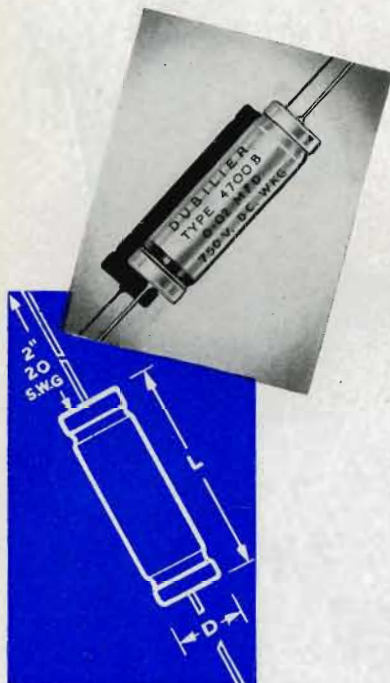
Type 4700B are metal cased tubular paper dielectric capacitors comprising a capacitor element of extended foil construction suitably processed and impregnated.

The element is assembled and hermetically sealed in a seamless metal tube by means of high grade bakelite backed synthetic rubber discs. Tinned wires are soldered to eyelets on the discs to provide convenient connectors.

TYPE 4700B
Capacitance Tolerance $\pm 20\%$

Capacitance μF	Working Voltage D.C.		Dimensions		Catalogue Ref.	Retail Price
	at 71°C.	at 85°C.	L	D		
0.001	1000	1000	1 $\frac{5}{8}$ "	$\frac{3}{8}$ "	4701B	1/10
0.002	1000	1000	1 $\frac{5}{8}$ "	$\frac{3}{8}$ "	4701B	1/10
0.005	1000	1000	1 $\frac{5}{8}$ "	$\frac{1}{2}$ "	4702B	1/10
0.01	1000	1000	1 $\frac{5}{8}$ "	$\frac{3}{4}$ "	4702B	1/10
0.02	750	750	1 $\frac{5}{8}$ "	$\frac{1}{2}$ "	4702B	1/10
0.05	500	450	1 $\frac{5}{8}$ "	$\frac{1}{2}$ "	4702B	2/1
0.1	350	250	1 $\frac{5}{8}$ "	$\frac{3}{4}$ "	4702B	2/1
0.1	500	450	2 $\frac{1}{8}$ "	$\frac{1}{2}$ "	4703B	2/2
0.1	1000	750	2 $\frac{3}{8}$ "	$\frac{3}{4}$ "	4705B	3/-
0.25	350	250	2 $\frac{1}{8}$ "	$\frac{3}{8}$ "	4704B	2/8
0.25	500	450	2 $\frac{3}{8}$ "	$\frac{3}{4}$ "	4705B	3/-
0.5	350	250	2 $\frac{3}{8}$ "	$\frac{3}{4}$ "	4705B	3/2
0.5	500	450	2 $\frac{1}{2}$ "	1"	4706B	4/-
1.0	350	250	2 $\frac{3}{8}$ "	1"	4707B	4/6

Capacitors are also available for 100°C. operation. Particulars and prices upon application.



TUBULAR PAPER CAPACITORS

(MINIATURE)

"MINICAPS"

Assembled in wax impregnated insulation sleeves the construction of these Capacitors provides a balance between minimum size, weight, electrical performance and mechanical strength. It also ensures maintenance of adequate working insulation resistance provided their use is limited to non-tropical conditions.

CAPACITANCE TOLERANCE $\pm 20\%$

Cap. μF	D.C. Volts		Size Ins.		Price Each
	Wkg.	Test	L	D	
0.001	350	1,000	0.75	0.175	1/-
0.002	350	1,000	0.75	0.175	1/-
0.003	350	1,000	0.75	0.175	1/-
0.005	350	1,000	0.75	0.175	1/-
0.01	350	1,000	0.75	0.205	1/-
0.001	500	1,500	0.75	0.195	1/2
0.002	500	1,500	0.75	0.195	1/2
0.003	500	1,500	0.75	0.195	1/2
0.005	500	1,500	0.75	0.195	1/2
0.01	500	1,500	0.75	0.25	1/2

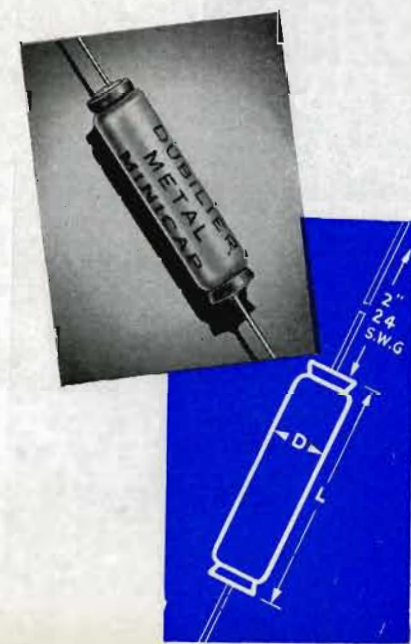
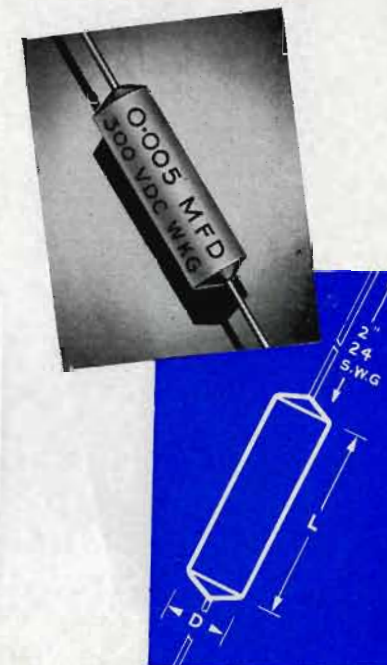
METAL "MINICAPS"

Metal cased "Minicap" Capacitors were designed to meet the demands for miniature Capacitors to withstand the severest conditions of humidity, temperature and high altitude.

They are of the extended foil construction with soldered-on co-axial wire connection and are enclosed in a metal sleeve. Insulating end discs with metal eyelets through which the connection wires pass and to which they are soldered completes the hermetic seal.

CAPACITANCE TOLERANCE $\pm 20\%$

Capacitance μF	D.C. Wkg. Volts			Dimensions		Retail Price
	71°C.	85°C.	100°C.	L	D	
0.001	500	450	350	1 $\frac{1}{8}$ "	0.25"	1/9
0.002	500	450	350	1 $\frac{1}{8}$ "	0.25"	1/9
0.005	500	450	350	1 $\frac{1}{8}$ "	0.25"	1/9
0.01	500	450	350	1 $\frac{1}{8}$ "	0.34"	1/10
0.005	350	250	200	1 $\frac{1}{8}$ "	0.25"	1/8
0.01	350	250	200	1 $\frac{1}{8}$ "	0.25"	1/8
0.02	350	250	200	1 $\frac{1}{8}$ "	0.34"	1/9



TUBULAR CERAMIC CAPACITORS

These Capacitors comprise a low-loss ceramic rod or tube with silvered electrodes to which are soldered metal end caps with integral tinned wire connectors.

They are finished by coating with grey enamel.

Positive Temperature Coefficient +90 parts per million per degree C.

Minimum Tolerance ±0.5pF. 500V. D.C. Wkg. Max.

Capacitance pF	Dimensions		Cat. Ref.	Retail Price		
	L	D		±20%	±10%	±2%
0.5	6 mm.	4.8mm.	CRD	2/3	2/6	3/-
1.0	6 "	4.8 "	CRD	2/3	2/6	3/-
1-12	11 "	4 "	CTD310	1/6	2/-	2/6
13-22	17 "	4 "	CTD316	1/9	2/6	3/-
23-56	28 "	5 "	CTD427	2/-	2/9	3/6
57-90	28 "	7 "	CTD627	2/6	3/3	4/-
91-170	44 "	7 "	CTD643	3/-	4/-	5/-

Negative Temperature Coefficient — 800 parts per million per degree C.

Minimum Tolerance ±0.5pF. 500V. D.C. Wkg. Max.

Capacitance pF	Dimensions		Cat. Ref.	Retail Price		
	L	D		±20%	±10%	±2%
1.5-5	10	4.8	CRS	2/3	2/6	3/-
5.6-56	11	4	CTS310	1/6	2/-	2/6
57-110	17	4	CTS316	1/6	2/-	3/-
111-330	28	5	CTS427	2/-	2/9	3/6
331-500	28	7	CTS627	2/6	3/3	4/-
501-1000	44	7	CTS643	3/-	4/-	5/-

* or ± 0.5 pF whichever is greater.

DIODE-FILTER UNITS

CYLINDRICAL PATTERN TYPE CRC

These multiple component units which we have developed provide a practical alternative to "Printed circuits" and the "Printed components" that have recently attracted the attention of designers of radio and electronic equipment.

They possess all the advantages to the radio and electronic manufacturers that "printed" components can offer, with the additional merit of being built from well-proved capacitor and resistor elements that have stood the test of time.

The construction of these units has received intensive study in the Dubilier Laboratories and is covered by several patent applications, namely, Nos. 34197/47, 23058/48, 1873/49, 5409/49 and others pending.

The Type CRC unit provides a complete diode filter in a single compact unit from which only three connecting wires project—one input and one output at opposite ends of the cylinder, with a central wire for the earth connection. A thick water repellent wax coating is used to give adequate humidity protection.

This Unit is constructed of a tubular **ceramic dielectric** element which furnishes the two capacities C_1 , C_2 , and has the resistance element housed in the interior of the tube.

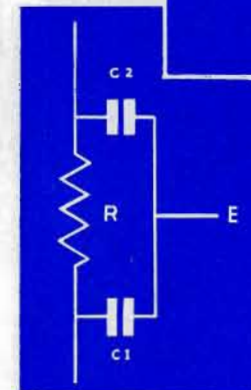
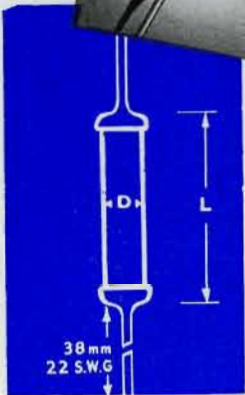
Any value of resistance can be furnished, the maximum value of C_1 and C_2 is $100 \mu\mu\text{F}$ each. Unless otherwise ordered the standard filter type CRC1 is supplied with values of:—

$$C_1 = C_2 = 100 \mu\mu\text{F}; \quad R = 47000 \Omega$$

Dimensions of element $3/4"$ long \times $3/16"$ diameter plus the thickness of the wax coating. Normal working temperature range 0° to $+50^\circ\text{C}$.

Note.—To special order these diode filters can be supplied moulded into a hard resin casing which provides greater mechanical protection and furnishes full protection over temperature range of -40° to $+70^\circ\text{C}$.

Prices available to bona-fide manufacturers upon application



CERAMIC TRIMMER CAPACITORS

The Dubilier Ceramic Trimmer Capacitor consists of a stator base of low permittivity ceramic material and a rotor of high permittivity ceramic material constituting the working dielectric and having their adjacent faces ground flat.

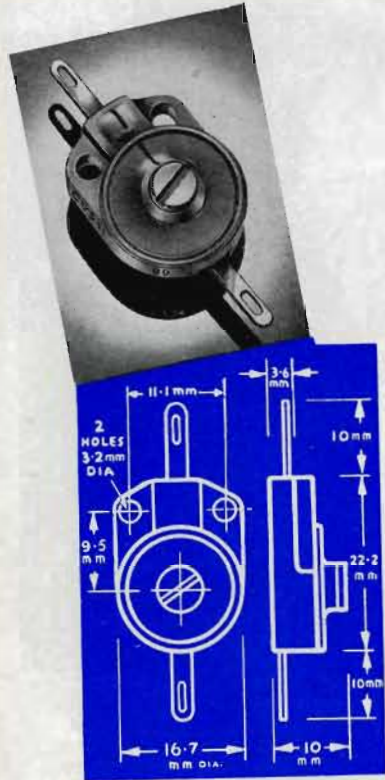
The stator and rotor are so silvered that there is an approximately linear change of capacitance with rotation, and they are finished by coating with grey enamel.

Capacitance Tolerance. At maximum $-0+50\%$
At minimum ∇ Nominal.

Test Voltage 1000V. D.C.

Capacitance pF		Type	Retail Price
Min.	Max.		
3.5	25.5	CVS.11	3/-
5	40	CVS.11	3/-
12	60	CVS.11	3/-

Temp. Coeff. per °C. - 550 parts per million.
Power Factor (Tan δ) $< 20 \times 10^{-4}$.
Insulation Resistance $> 100,000$ M Ω .



CERAMIC DIELECTRIC BY-PASS OR BUSHING CAPACITORS

For certain ultra high radio frequency circuitry positions such as decoupling in Television and for other U.H.F. applications it is essential for the impedance-frequency characteristic of the capacitors to be virtually that of a pure capacitance.

The inductance due to terminals and connections of ordinary capacitors makes them unsuitable for such applications and to meet this requirement a range of By-pass or Bushing Capacitors is available.

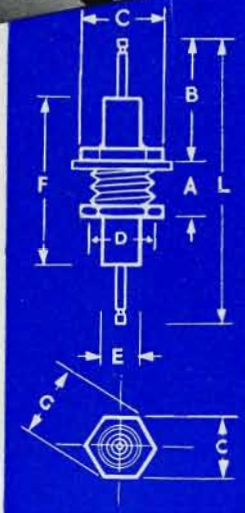
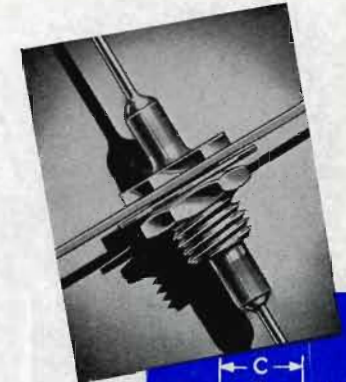
The construction consists of a threaded metal bush through which is fitted a ceramic dielectric tube with silvered inner and outer electrodes. The outer is soldered to the metal bush forming one terminal and a metal pin fitted through and projecting beyond both ends of the tube and soldered to the inner electrode provides a straight-through connection. Therefore they can be conveniently fitted through holes in the chassis or screen.

Prices available to bona-fide manufacturers upon application

MAXIMUM WORKING VOLTAGE 500V. D.C.
TEST VOLTAGE 1500V. D.C.

Capacitance, pF. $\pm 10\%$	Type	Approximate Characteristics at 15°-25°C., 50% R.H. and 1 Mc/s.		
		Temp. Coeff. parts per million per °C.	Power Factor (Tan δ)	Permittivity
22	BPD316	+90	$< 10 \times 10^{-4}$	16
33	BPD427	"	"	"
47		"	"	"
39		"	"	"
56	BPD627	"	"	"
68		"	"	"
82	BPD643	"	"	"
100		"	"	"
120		"	"	"
150	BPS316	"	"	"
100		-800	$< 20 \times 10^{-4}$	85
120		"	"	"
180		"	"	"
220	BPS427	"	"	"
270		"	"	"
330		"	"	"
390	BPS627	"	"	"
470		"	"	"
560	BPS643	"	"	"
680		"	"	"
820		"	"	"
1000		"	"	"

Type	A	B	C	D	E	F	G	L
BPD316 BPS316	$\frac{3}{16}$ "	$\frac{3}{16}$ "	0.324"	1 BA. (0.209")	3 mm. 0.118"	16 mm. 0.63"	$\frac{3}{8}$ "	$1\frac{1}{8}$ "
BPD427 BPS427	$\frac{3}{16}$ "	$\frac{3}{16}$ "	0.437"	$\frac{3}{16}$ " \times 26 T.P.I.	4 mm. 0.157"	27 mm. 1.06"	$\frac{1}{2}$ "	$1\frac{1}{2}$ "
BPD627 BPS627	$\frac{3}{16}$ "	$\frac{3}{16}$ "	0.5"	$\frac{3}{16}$ " \times 26 T.P.I.	6 mm. 0.236"	27 mm. 1.06"	$\frac{3}{8}$ "	$1\frac{1}{2}$ "
BPD643 BPS643	$\frac{3}{16}$ "	$1\frac{1}{16}$ "	0.5"	$\frac{3}{16}$ " \times 26 T.P.I.	6 mm. 0.236"	43 mm. 1.69"	$\frac{3}{8}$ "	$2\frac{1}{8}$ "



TRANSMITTING CERAMIC DIELECTRIC CAPACITORS

BELL-FLANGED POT TYPE

Ceramic transmitting capacitors of the bell-flanged pot type consist of a low-loss ceramic body, tubular in shape, with one end spherically closed and the other end open. An integral bell-shaped stress flange is situated on the exterior near to the open end.

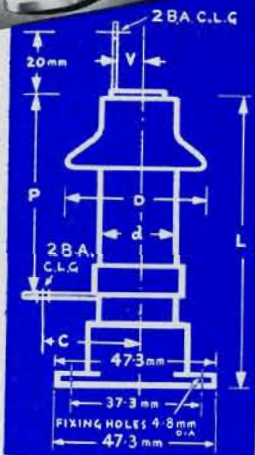
Silvered internal and external surfaces form the electrodes, to which substantial connection lugs are soldered. The unsilvered surfaces are glazed and the silvered portions are normally finished with high-grade enamel.

These capacitors are for use in all forms of transmitting circuits. The types bearing suffix letters RDX are not suitable for application where any form of low frequency loading—20 kc/s or less—is to be applied. Types with the suffix DMY should be selected wherever possible, while those with suffix RDX should be used only where space and capacitance considerations preclude the use of the DMY types.

The ratings quoted should not be exceeded. Where there is a combined application of D.C. with L.F. and/or R.F. superimposed, the total peak voltage applied should not exceed the value of the quoted D.C. rating. For telephone modulation or I.C.W. conditions, the peak voltage applied should not exceed the peak value of the quoted R.M.S. plain C.W. rating.

When using types fitted with a ceramic fixing base care must be exercised to ensure that the maximum voltage to earth from the lower connection lug does not exceed 5kV.D.C. For voltages to earth in excess of this, particularly radio frequency voltages, the types shown in Figs. A, B, D and E should be selected and installed suspended from self-supporting connections.

Capacitor Type	All Sizes in mm.						
	Fig.	L	D	d	P	C	V
C226	A	90	48	25	—	—	5 to 10
C226	B	87	"	"	60	33	"
C226	C	90	"	"	"	"	"
C226	D	"	"	"	"	"	"
C226	E	98	"	"	"	"	"
C237	A	73	48	25	—	—	5 to 10
C237	B	70	"	"	43	33	"
C237	C	73	"	"	"	"	"
C237	D	"	"	"	"	"	"
C237	E	81	"	"	"	"	"
C232	A	59.5	48	25	—	—	5 to 10
C232	B	56.5	"	"	32	33	"
C232	C	59.5	"	"	"	"	"
C232	D	"	"	"	"	"	"
C232	E	67.5	"	"	"	"	"
C238	A	50	48	25	—	—	5 to 10
C238	B	42	"	"	32	33	"
C238	D	50	"	"	"	"	"



TRANSMITTING CERAMIC DIELECTRIC CAPACITORS

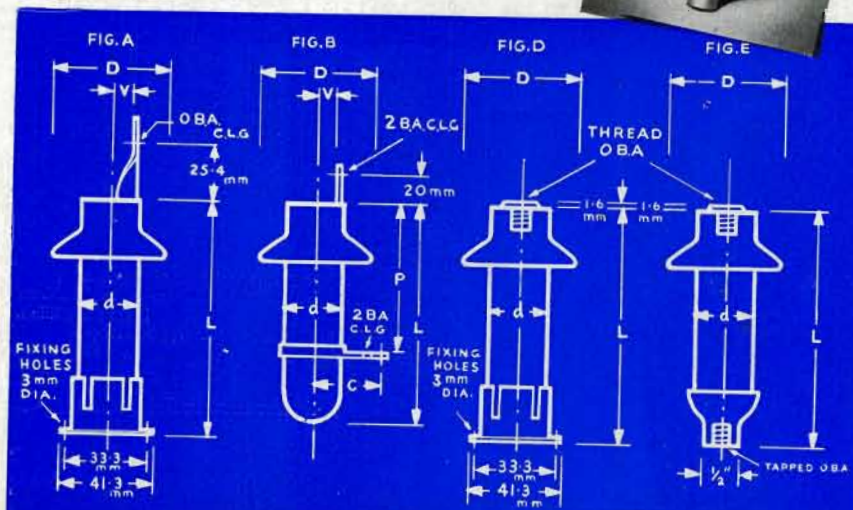
BELL-FLANGED POT TYPES

TYPES AND RATINGS.

Capacitance, μ F	Capacitance Tolerance		Rating			Max. D.C. Test, kV.	Approx. Characteristics at 15°-25°C., 50% R.H. and 1 M/c			Type
	Basic	Min.	D.C. kV.	H.F. kV. R.M.S.	kVA		Temp. Coeff. parts per million per °C.	Power Factor (Tan δ)	Permittivity	
50	$\pm 20\%$	$\pm 10\%$	10	3.5	10	20	-90	$< 5 \times 10^{-4}$	16	C238DMY
75	"	"	"	"	15	"	"	"	"	C232DMY
100	"	"	"	"	20	"	"	"	"	C237DMY
125	"	"	"	"	"	"	"	"	"	"
150	"	"	"	"	30	"	"	"	"	C226DMY
200	"	"	"	"	"	"	"	"	"	"
250	"	"	"	"	"	15	"	"	"	"
200	$\pm 20\%$	$\pm 10\%$	10	0.75	2	20	-600	$< 10 \times 10^{-4}$	65	C238RDX
350	"	"	"	"	3	"	"	"	"	C232RDX
500	"	"	"	"	4	"	"	"	"	C237RDX
650	"	"	"	"	5	"	"	"	"	C226RDX
1000	"	"	"	"	"	"	"	"	"	"

Fig. A, D or E connectors should be used on capacitors rated in excess of 10kVA. Working conditions in excess of, or not covered by, the tabulated data should be the subject of special enquiry.

Prices are available upon application



TRANSMITTING CERAMIC DIELECTRIC CAPACITORS

TUBULAR TYPE

A range of low-power transmitting ceramic capacitors are available comprising a low-loss ceramic tube, with heavily silvered electrodes to which terminal lugs are soldered. The unit is finished with a protective coating of high-grade enamel or varnish.

The capacitors are for use in low-power transmitting circuits, but the types with prefix letters "SCX" must not be used on frequencies of less than 20 kc/s.

The ratings quoted should not be exceeded. Where there is a combined D.C. with L.F. and/or R.F. superimposed, the total peak voltage applied should not exceed the quoted D.C. rating. For telephone modulated or I.C.W. conditions, the peak voltage applied should not exceed the peak value of the quoted R.M.S. rating.

The enamel finished type is recommended for general use where excessive atmospheric moisture is not encountered.



FIG. 1

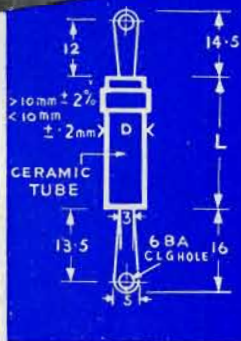
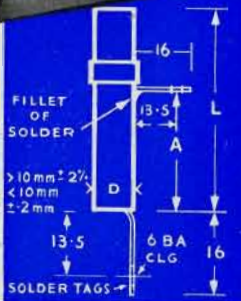


FIG. 2



Capacitance Range pF	Maximum Ratings				Enamel Protected			
	Working		Test		Type No.	Size mm.		
	VA	kV. R.M.S.	kV. D.C.	kV. D.C.		D.	L	A
	Fig. No.							
50-250	750	0.25	2.0	5.0	SCX940	9	40	— 25
250-350	1000	..	..	..	SCX950	..	50	— ..
350-400	1500	..	..	..	SCX955	..	55	— 35
50-250	..	..	..	..	SCX1240	..	40	— 25
50-500	240	..	0.5	1.5	SCX925	..	25	— 16
500-950	480	..	..	..	SCX945	..	45	— 25
950-1200	600	..	..	..	SCX953	..	53	— 35
5-45	3000	1.0	2.0	5.0	DMY1240	12	40	— 25
10-120	1500	0.75	1.0	2.5	DMY940	9	..	— ..
120-160	..	0.75	..	..	DMY950	..	50	— ..

Capacitance Tolerance
 Basic $\pm 10\%$
 Intermediate $\pm 5\%$
 Minimum $\pm 1\%$ or $\pm 1\text{pF}$, whichever is greater.
 Approximate Characteristics at $15^{\circ}\text{--}25^{\circ}\text{C}$., 50% R.H. and 1 Mc/s.
 Parts per million. Parts per million.
 Temperature Coefficient per $^{\circ}\text{C}$. Type DMY +90 Type SCX -800
 Power Factor (Tan δ) $< 10 \times 10^{-4}$ $< 15 \times 10^{-4}$
 Permittivity 16 85

Prices are available upon application

TRANSMITTING CERAMIC DIELECTRIC CAPACITORS

TRANSMITTING BUSHING TYPE CERAMIC CAPACITORS

Type	CB100	CB150	CB200
Capacitance	100pF	150pF	200pF
Capacitance Tolerance	$\pm 20\%$	$\pm 20\%$	$\pm 20\%$
Max. DC. wkg. Voltage	10000	10000	10000
Max. A.C.+D.C. peak wkg. Volts	7500	7500	7500
Max. RF Current Amps.	30	30	30
Max. RF Volts RMS	5000	5000	5000
Max. Load kVA	150	150	150
Max. Ambient temp $^{\circ}\text{C}$.	71 $^{\circ}\text{C}$.	71 $^{\circ}\text{C}$.	71 $^{\circ}\text{C}$.
Test Voltage 50 c/s RMS	15000	15000	15000
Temp. Coeff. of Capacitance per $^{\circ}\text{C}$	+ 100 parts per million approx.		
*Max. Current for centre stem	50 amp. at 50c/s or DC.		

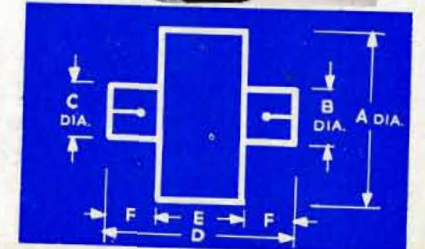
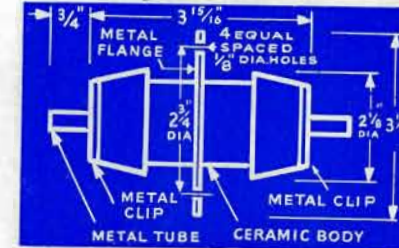
* Where the Capacitor is used in such a manner that the centre stem is required to carry up to 50 amps. of L.F. or D.C. current the Capacitor is provided with a solid copper stem fitted to the tube.
 The dimensions are for the 200 pF unit, the length being somewhat less for the other capacitance values.

TRANSMITTING CERAMIC DIELECTRIC CAPACITORS

This Capacitor comprises a low loss ceramic disc of H section with heavily silvered electrode surfaces to which terminals in the form of split metal tubes are attached and suitably secured. These terminals provide an easy means of connection of the units in series and is also an excellent R.F. current conductor.

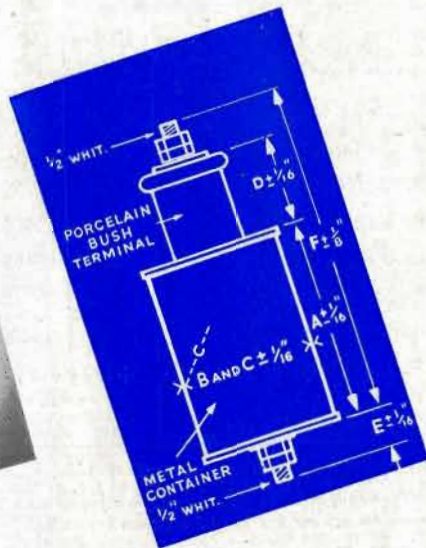
Type	P.H.1	P.H.2	P.H.3	P.H.4
Capacitance pF	6.8 8.2	15. 18. 20	27. 33. 39	47. 56. 68.
50c/s Test RMS	12.0	10kV	10kV	82. 100
Max. RF kV.	10kV	7.5 RMS	7.5 RMS	10kV
Max. RF Amps.	7.5 RMS	8	10	7.5 RMS
Max. RF kVA	20	35	50	20
Temp. Coeff. parts per million per $^{\circ}\text{C}$.	19 mm.	19 mm.	19 mm.	75
Capacitance Tolerance	± 100	± 100	± 100	± 100
	$\pm 10\%$	$\pm 10\%$	$\pm 10\%$	$\pm 10\%$
Dimensions—				
A	21 mm.	28.5 mm.	39 mm.	54.8 mm.
B	6.35 mm.	6.35 mm.	12.7 mm.	12.7 mm.
C	5.59 mm.	5.59 mm.	11.9 mm.	11.9 mm.
D	44.4 mm.	44.4 mm.	44.4 mm.	44.4 mm.
E	19 mm.	19 mm.	19 mm.	19 mm.
F	12.7 mm.	12.7 mm.	12.7 mm.	12.7 mm.

Prices are available upon application



TRANSMITTING CERAMIC DIELECTRIC CAPACITORS

TRANSMITTING OIL IMMERSED
CERAMIC CAPACITORS



Type.	C.53913	C.56417
Test kV RMS 50 c/s	15.0	30.0
Wkg. kV Peak	10.0	20.0
Wkg. kV RMS	5.0	10.0
Max. RMS Amps.	40.0	40.0
Capacitance	kVA	kVA
100pF	—	120
200pF	60	240
300pF	80	240
400pF	120	240
500pF	120	240
600pF	120	—
800pF	120	—
1000pF	120	—
Normal Capacitance Tolerance	± 10%	± 10%
Dimensions—		
A	6"	12"
B	5 1/2"	5 1/2"
C	3 1/2"	4 1/2"
D	2 1/2"	3"
E	1"	1"
F	9 1/2"	16"

Prices are available upon application.

INTERFERENCE SUPPRESSOR CAPACITORS

For more than a quarter of a century the design and manufacture of Suppressor Capacitors has been an outstanding feature in our activities. Large quantities have been sold and are giving satisfactory service.

The wide technical and engineering experience accumulated thereby, enables us to offer a comprehensive selection of Suppressor Capacitors, suitable for incorporation in electrical equipment to meet the provisions of the Wireless Telegraphy Act (1949).

Our Suppressor Catalogue gives a brief outline of the subject, together with details of the units now available and will be gladly forwarded upon request. Our engineers are also at the disposal of manufacturers who wish to discuss their particular problems with us.



DUBILIER INTERFERENCE
Suppressor
CAPACITORS



Motor Radio—Interference Suppressor Capacitors

Generators on Motor Cars, Motor Boats and small electric lighting plants cause considerable interference to radio and television reception which it is necessary to suppress.

Here are two popular Dubilier Suppressor Capacitors specially designed for this purpose.

Motor Suppressor Capacitor SV1.	0.5μF	5/6d.
" " " SV2.	1.0μF	6/6d.

A.C. DRILITIC CAPACITORS

FOR A.C. CAPACITOR-START MOTORS
AND OTHER
INTERMITTENT APPLICATIONS

Dubilier A.C. Drilitic Capacitors type C.M.S. are designed for A.C. Motor starting and other applications where the applied voltage is of intermittent character within the voltage, temperature and intermittency periods specified.

CHARACTERISTICS OF TYPE C.M.S. A.C. DRILITIC CAPACITOR

The type C.M.S. A.C. Drilitic capacitors as described are designed for any intermittent A.C. applications within the voltage and temperature ratings given, providing such voltage application does not exceed 60 start-seconds per hour with a maximum duration of 3 seconds per start.
e.g.: 1 second starts, with not more than 60 starts per hour.
or 2 second starts, with not more than 30 starts per hour.

The operating characteristics of these A.C. type Dry Electrolytic Capacitors limit their application only by the wattage loss and their ability to radiate the resultant heat generated. Therefore, any given capacitor will withstand an increased number of voltage applications per minute or an increase of cycle time as long as the generated heat is dissipated, and the temperature of the capacitor does not rise above a definite equilibrium value. This value should not, as a general rule, exceed sixty degrees centigrade.

VOLTAGE RATINGS

The maximum R.M.S. Ratings are as follows:—

Line Voltage	Capacitor Voltage
110 Volts 50 Cycles ...	150 Volts
230/240 Volts 50 Cycles ...	275 Volts } dependent on or 350 Volts } motor design.

These maximum voltage ratings are based on a maximum operating temperature of sixty degrees centigrade.

TEMPERATURE

Due to the fact that the resistivity of the electrolyte employed in A.C. electrolytic capacitors changes appreciably with changes in temperature, there is a corresponding change in power factor and effective capacitance with changes in temperature of capacitors. Operation at low or sub-zero temperatures does no harm to the capacitor, and upon application of the rated operating voltage the higher power factor will cause internal generation of heat, which will quickly raise the temperature of the capacitor, with the result that normal values of capacitance and power factor will be promptly obtained.

A.C. DRILITIC CAPACITORS

CAPACITANCE RATINGS

Selected values of capacitance that have found general use are given in the Table, and show minimum and maximum values of capacitance measured at 50 c/s., and at 80% of their rated voltage.

POWER FACTOR

The power factor of this type of capacitor has been fixed as low as feasible consistent with the best engineering practice. The maximum power factor at which these capacitors are approved is given in the Table.

TESTING A.C. ELECTROLYTIC CAPACITORS

All capacitors are measured for capacitance at 80% of their rated voltage and at a normal ambient temperature of 18° to 20° C. When making such measurements the test voltage should not be applied for longer than two seconds at any time, and any such tests should not be repeated more frequently than once every two minutes.

A.C. DRILITIC CAPACITORS—TYPE C.M.S.

Type	R.M.S. Volts	Capacitance in μF		Current in Amps.		Max'm Power Factor	Size in Inches					
		Min.	Max.	Min.	Max.		A	B	C	D $\pm \frac{1}{8}$	E	F
C.M.S.2	150	75	100	3.54	4.71	10%	$4 \frac{1}{16}$	$2 \frac{1}{16}$	$1 \frac{13}{16}$	$3 \frac{7}{8}$	$1 \frac{1}{2}$	$2 \frac{3}{4}$
C.M.S.3	"	100	125	4.71	5.89	"	$5 \frac{1}{16}$	$2 \frac{1}{16}$	$1 \frac{13}{16}$	$3 \frac{7}{8}$	2	$2 \frac{3}{4}$
C.M.S.4	"	120	150	5.65	7.07	"	$5 \frac{1}{16}$	$2 \frac{1}{16}$	$2 \frac{1}{16}$	$3 \frac{7}{8}$	2	$2 \frac{3}{4}$
C.M.S.1	275	15	20	1.3	1.73	10%	$4 \frac{1}{16}$	$1 \frac{11}{16}$	$1 \frac{7}{16}$	$2 \frac{7}{8}$	$1 \frac{1}{2}$	$2 \frac{1}{8}$
"	"	20	25	1.73	2.16	"	"	"	"	"	"	"
"	"	25	32	2.16	2.76	"	"	"	"	"	"	"
C.M.S.2	"	30	40	2.6	3.45	"	$4 \frac{1}{16}$	$2 \frac{1}{16}$	$1 \frac{13}{16}$	$2 \frac{7}{8}$	$1 \frac{1}{2}$	$2 \frac{1}{8}$
"	"	40	50	3.45	4.32	"	"	"	"	"	"	"
C.M.S.3	"	50	63	4.32	5.45	"	$5 \frac{1}{16}$	$2 \frac{1}{16}$	$1 \frac{13}{16}$	$3 \frac{7}{8}$	2	$2 \frac{3}{4}$
"	"	55	70	4.75	6.05	"	"	"	"	"	"	"
"	"	60	80	5.18	6.91	"	"	"	"	"	"	"
C.M.S.4	"	80	100	6.91	8.65	"	$5 \frac{1}{16}$	$2 \frac{1}{16}$	$2 \frac{1}{16}$	$3 \frac{7}{8}$	2	$2 \frac{3}{4}$
C.M.S.1	350	20	25	2.2	2.75	10%	$4 \frac{1}{16}$	$1 \frac{11}{16}$	$1 \frac{7}{16}$	$2 \frac{7}{8}$	$1 \frac{1}{2}$	$2 \frac{1}{8}$
C.M.S.2	"	35	44	3.85	4.83	"	$4 \frac{1}{16}$	$2 \frac{1}{16}$	$1 \frac{13}{16}$	$2 \frac{7}{8}$	$1 \frac{1}{2}$	$2 \frac{1}{8}$
C.M.S.3	"	45	55	4.95	6.05	"	$5 \frac{1}{16}$	$2 \frac{1}{16}$	$1 \frac{13}{16}$	$3 \frac{7}{8}$	2	$2 \frac{3}{4}$
C.M.S.4	"	60	80	6.6	8.8	"	$5 \frac{1}{16}$	$2 \frac{1}{16}$	$2 \frac{1}{16}$	$3 \frac{7}{8}$	2	$2 \frac{3}{4}$

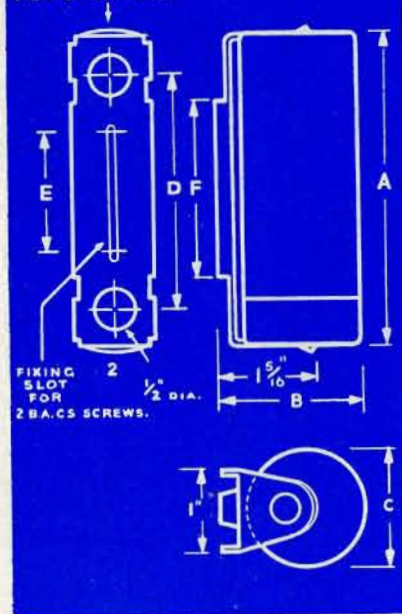
For large quantities Motor Manufacturers' special clip arrangements can be supplied.

Prices are available upon application

NOTE.—American F.H.P. Motors supplied for use on 230V single phase often employ a capacitor rated at a voltage between 110V and 150V. This is connected in a special manner, and should be replaced with a capacitor of the same rating connected in the same way, notwithstanding the fact that the motor is running on 230V. Certain types of refrigerator motors supplied by leading British Manufacturers prior to 1940 employed the same system.



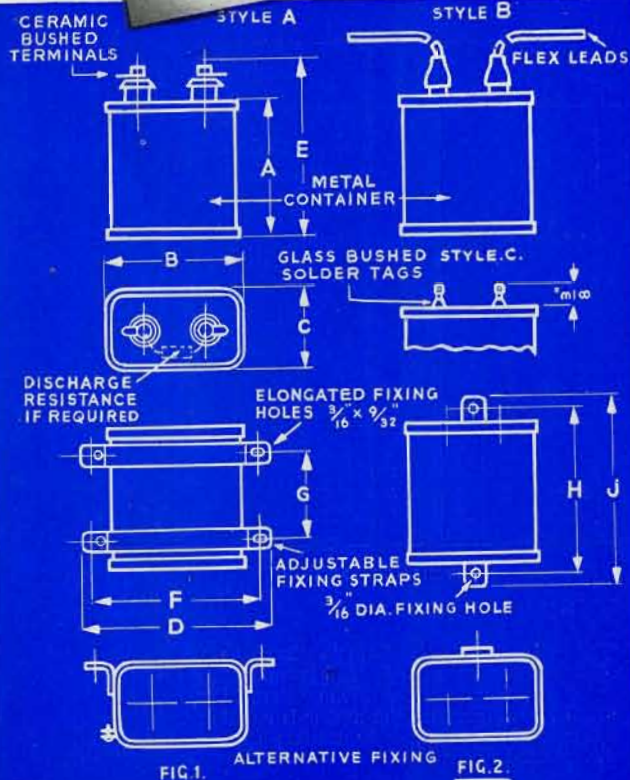
VIEW OF CLIP ONLY



NITROGOL CAPACITORS FOR GASEOUS DISCHARGE AND FLUORESCENT LIGHTING

TABLE OF RATINGS AND SIZES

Item	Capacitance Range μF	Maximum Working Voltage A.C.	A	B	C	D	E	F	G Max.	H	J
1	4-5	275	4 1/8"	1 1/8"	1 1/8"	2 1/8"	5 1/8"	2 1/2"	3 1/8"	5 1/8"	5 1/8"
2	7-8	275	"	"	"	"	"	"	"	"	"
3	3.5-4	400	"	"	"	"	"	"	"	"	"
4	7-8	275	"	2 1/8"	1 1/8"	3 1/8"	"	3 1/2"	"	"	"
5	4-4.5	400	"	"	"	"	"	"	"	"	"
6	7.5-9.5	440	9"	"	"	"	9 1/8"	"	8 1/8"	9 1/8"	10"
7	3.5-5%	400	4 1/8"	"	"	"	5 1/8"	"	3 1/8"	5 1/8"	5 1/8"
8	7.5-5%	440	9"	"	"	"	9 1/8"	"	8 1/8"	9 1/8"	10"
9	2	275	2 1/8"	1 1/8"	1 1/8"	2 1/8"	3 1/8"	2 1/2"	1 1/8"	2 1/8"	3 1/8"
10	4	275	4 1/8"	"	"	"	5 1/8"	"	3 1/8"	5 1/8"	5 1/8"
11	8	275	9"	"	"	"	9 1/8"	"	8 1/8"	9 1/8"	10"
12	3.5-5%	440	"	"	"	"	"	"	"	"	"
13	4-7.5	275	2 1/8"	2 1/8"	2 1/8"	3 1/8"	3 1/8"	3"	1 1/8"	2 1/8"	3 1/8"
14	17-19	275	4 1/8"	3 1/8"	2 1/8"	4 1/8"	5 1/8"	4"	3 1/8"	5 1/8"	5 1/8"
15	10.5-5%	275	"	3 1/8"	1 1/8"	"	"	3 1/2"	"	"	"
16	6.3-5%	440	"	"	"	"	"	"	"	"	"
17	13	275	9"	2 1/8"	1 1/8"	3 1/8"	9 1/8"	3 1/2"	8 1/8"	9 1/8"	10"
18	7.5-10%	350	4 1/8"	1 1/8"	1 1/8"	3 1/8"	5 1/8"	3 1/2"	3 1/8"	5 1/8"	5 1/8"
20	3.5-20%	275	4 1/8"	1 1/8"	1 1/8"	3 1/8"	5 1/8"	3 1/2"	3 1/8"	5 1/8"	5 1/8"



Prices are available upon application

FOR GASEOUS DISCHARGE AND FLUORESCENT LAMP APPLICATIONS

The Nitrogol process has enabled us to produce a range of capacitors for this purpose smaller in size and less in weight than capacitors hitherto available. They can be readily and conveniently placed in position in any of the standard fittings supplied for these lamps including the shallow trough types.

Nitrogol capacitors comprise elements of the multi-paper dielectric construction using high purity aluminium foil electrodes and assembled in the crimp seamed and solder sealed containers. The terminals normally fitted are the moulded phenolic resin, silicone-rubber sealed type, with dimensions not exceeding the glass bushed seal style C in the line drawing. Other terminals supplied only to special order. This construction ensures complete hermetic sealing and suitability for use even in damp tropical conditions.

If required these capacitors can be supplied fitted with internal permanently connected discharge resistors.

To special order also the capacitors can be fitted with insulated wire tail connecting leads.

A variety of fixing arrangements is available as indicated in the accompanying drawings.

The table of ratings and sizes shows our normal range of production, but to special requirements many other variations can be produced and enquiries giving particulars of requirements are invited.

SUPPRESSOR UNITS FOR GASEOUS DISCHARGE AND FLUORESCENT LAMPS

A wide range of units is available for this purpose, incorporating an adequate factor of safety to sustain the voltage surges encountered on this duty. The range includes simple capacitors and capacitor-resistor combinations in the forms of construction indicated in the drawings.

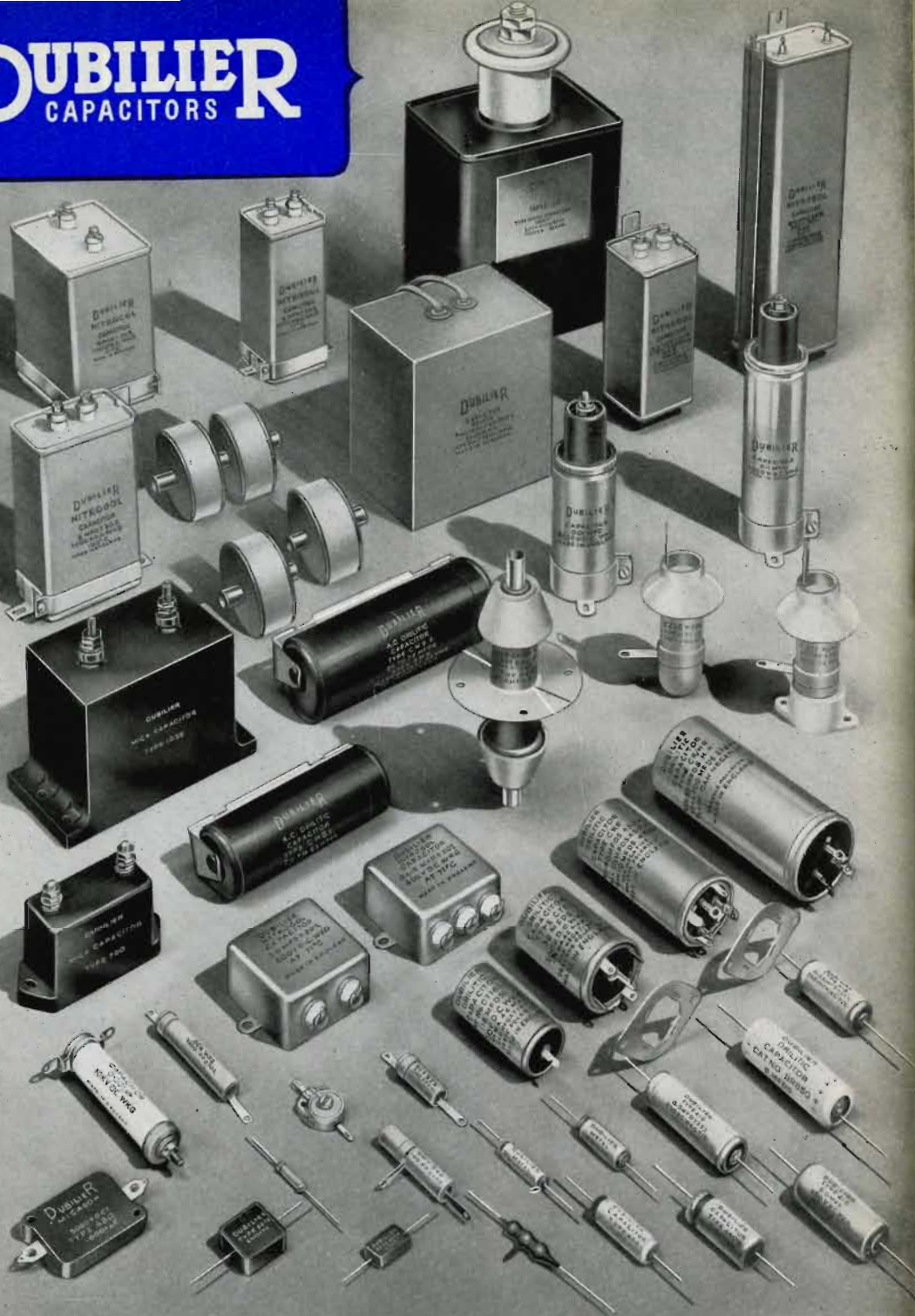
The units are normally available in the following forms. (1) A tubular capacitor of the paper dielectric type in a wax-coated insulating tube and suitable for use except in abnormal conditions of ambient temperature or high atmospheric humidity. Our Type 460. (2) A tubular capacitor similar to the above, but completely hermetically sealed in a metal tube with synthetic rubber end seals which additionally forms the terminal insulation. This type is to be preferred when the ambient temperature and/or atmospheric humidity are abnormal or correspond to tropical conditions. Our type 4700B. (3) A unit comprising a tubular paper dielectric capacitor element, in series connection with a resistor of suitable ohmic value. This is assembled in a metal container with threaded boss for mounting purposes and sealed with high melting point compound. Insulated flexible wire tails are provided for connections. Our Type MC/CR.

NOTE. Other Ratings or different Dimensions can be produced to Special Order

Item	Type	Capacitance	Voltage	L	D	Length of Screw
1	460	Up to .02 μF	250 A.C.	1 1/8"	3/8"	—
2	4700B	Up to .02 μF	250 A.C.	1 1/8"	3/8"	—
3	MC/CR	Up to .04 μF	250 A.C.	1 1/4"	3/8"	3/8" x 2 BA.

Prices are available upon application

DUBILIER CAPACITORS



PATENT NUMBERS

The prices in this publication apply only in Great Britain and Northern Ireland. The articles herein are sold under limited licence and they are manufactured under one or more of the following British Patents—

344,776	453,058	519,334	565,521	609,824
358,100	460,909	540,144	567,165	611,900
361,332	460,910	550,047	569,060	613,116
370,890	467,024	550,130	574,577	613,670
376,765	472,272	550,419	580,489	622,882
398,825	478,582	550,502	582,669	623,155
398,929	484,582	550,535	584,552	624,816
416,751	489,283	550,617	587,819	625,459
425,347	489,560	550,999	590,757	629,820
439,531	491,889	551,625	597,309	631,044
439,533	504,748	555,914	601,109	632,134
440,851	504,749	559,376	601,195	635,326
441,901	505,998	563,456	601,220	638,600
442,880	507,596	564,661	603,327	648,048
445,717	510,917	564,971	606,812	and
448,163	511,042	565,243	607,394	others

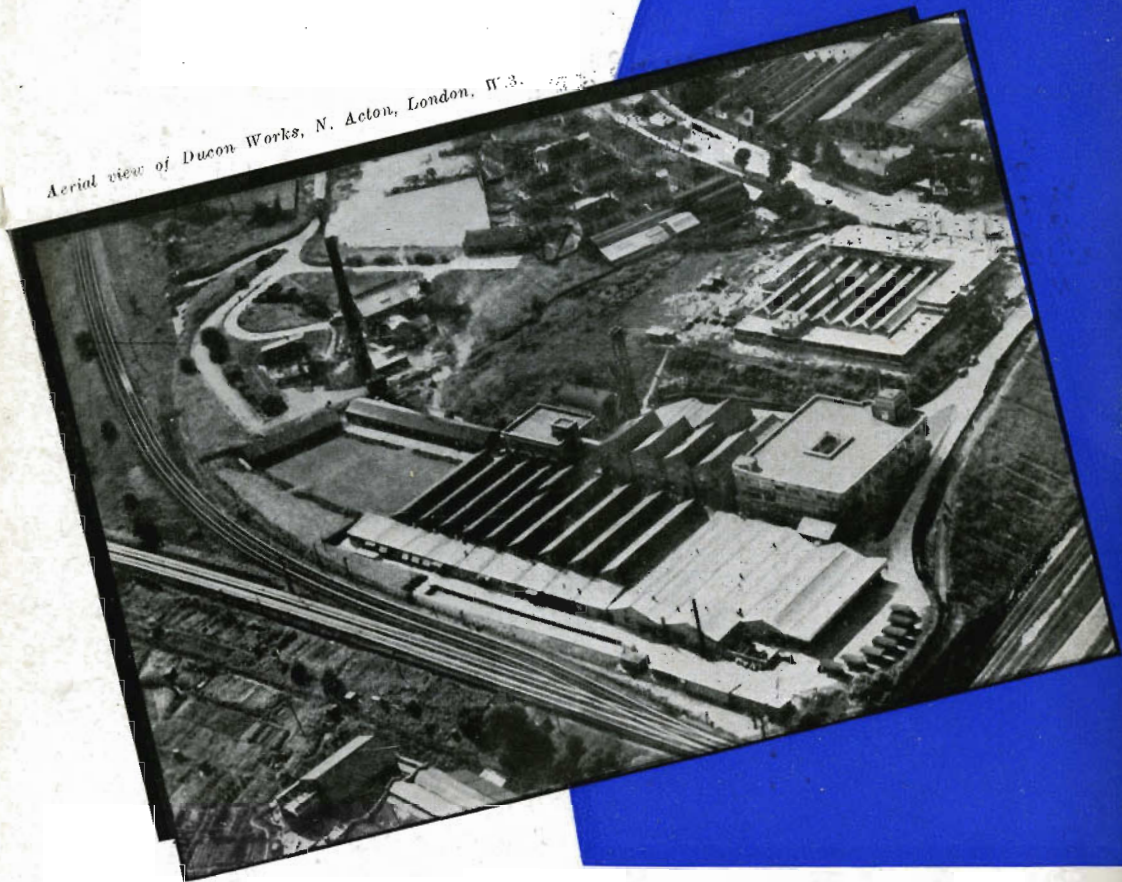
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DUBILIER

CAPACITORS

Aerial view of Ducon Works, N. Acton, London, W.3.



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