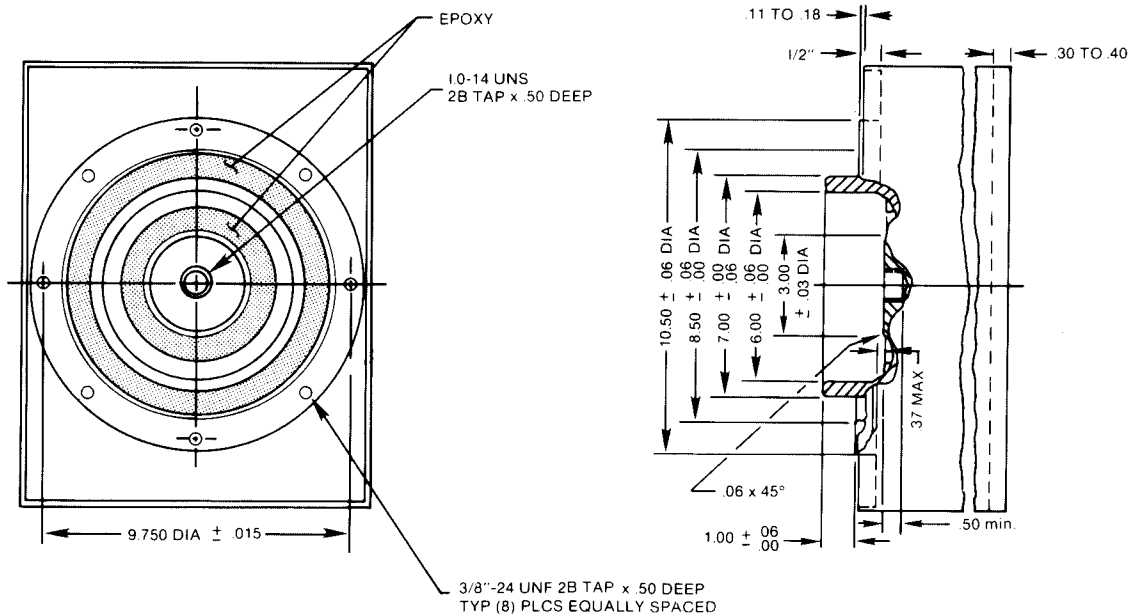


DETAIL E+
FLUSH COVER WITH MODIFIED SCYLLAC



DETAIL F++
RECESSED COVER WITH FULL SCYLLAC

Series C
High Energy
Capacitors

MAXWELL
Laboratories, Inc.

8888 Balboa Avenue
San Diego, California 92123
(619) 576-7545
FAX: (619) 576-7672

TITLE

CAPACITOR APPLICATION GUIDE

DESIGN ACTIVITY APPROVAL

SIZE

A

FSCM

29813

DRAWING NUMBER

REV
LTR

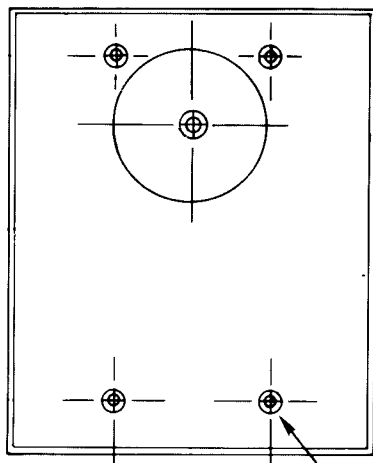
GOVERNMENT ACTIVITY APPROVAL

SCALE

RELEASE
DATE

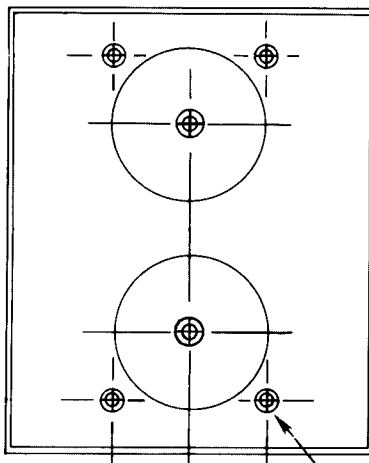
SHEET

OF



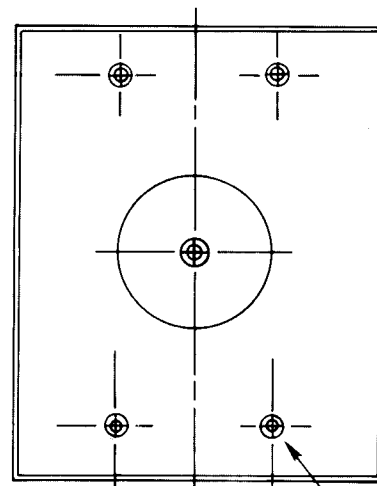
3/8"-16 THD
1/2" DEEP (4)

DETAIL A
OFF-SET LOW PROFILE



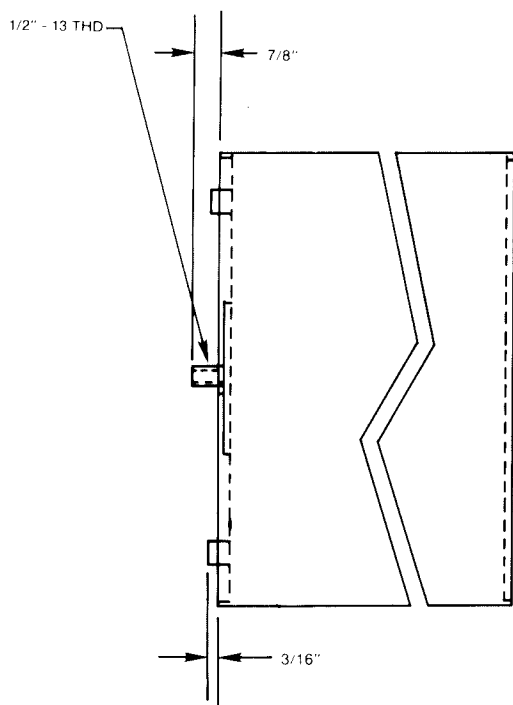
3/8"-16 THD
1/2" DEEP (4)

DETAIL B
DUAL LOW PROFILE

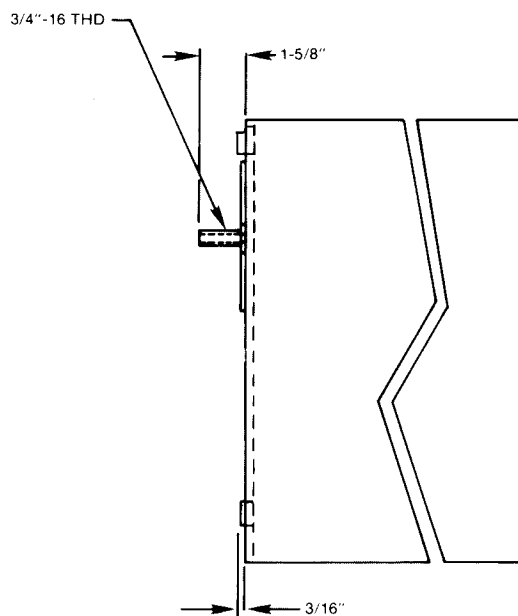


3/8"-16 THD
1/2" DEEP (4)

DETAIL C
CENTER MOUNTED LOW PROFILE



DETAIL 1
25/50 kV LOW PROFILE

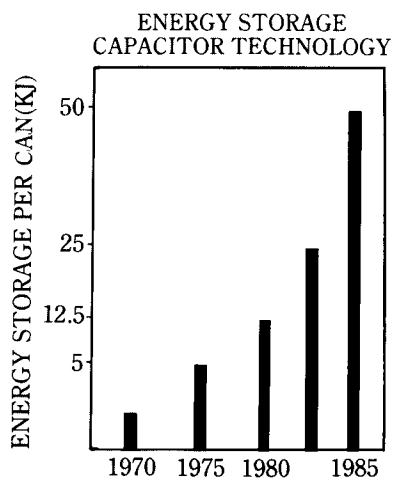
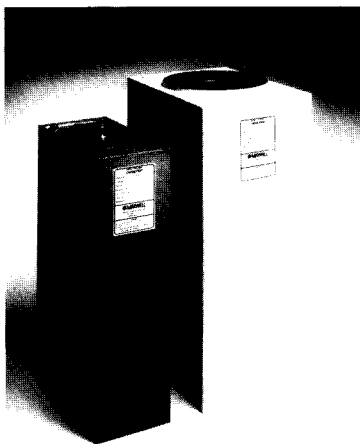


DETAIL 2
60 kV LOW PROFILE

Case dimensions shown are held 2" up from base and 2" down from cover.
A number of different electrode-bushing types and arrangements are considered standard as shown in the bushing details above, other bushing styles are also available. Impregnants are biodegradable, non PCB, liquids.
Dimensions apply to model number in this brochure only. For custom designs consult Maxwell.

		<div>DO NOT SCALE DRAWING UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES</div> <div>TOLERANCES:</div> <div>.X ± .1 .XX ± .03 .XXX ± .010</div> <div>HOLE DIA UP TO .500 +.005 -.002</div> <div>HOLE DIA ABOVE .500 +.010 -.003</div> <div>ANGLES ± 0 30' MACHINED SURFACES</div>	APPROVED
NEXT ASSY	USED ON		CHECKED BY
APPLICATION			DRAWN BY

GAFNY



Maxwell Laboratories is the leading manufacturer of high energy density capacitors. We have been the major contributor to the development of this technology since 1969. Energy densities at that time were 3 kilojoules in a can, whereas we are presently manufacturing high energy density capacitors storing 50 kilojoules.

NOTES: _____

Model No.	Cap (uF) +/- 10%	Max Volt (KV)	Energy (KJ)
33838	120	10	6
33715	200	10	10
32259	500	10	25
33940	430	11	26
33943	525	11	31.5
32312	680	11	41
32327	830	11	50
33464	30	20	6
33593	50	20	10
33677	52	22	12.5
32235	125	20	25
33941	107	22	26
33944	130	22	31.5
32313	170	22	41
32349	206	22	50
32276	12.5	40	10
32169	32	40	25
33942	27	44	26
33945	32	44	31.5
32314	42	44	41
32283	52	44	50
32184	6	60 +	10.8
32389	8.4	60 +	15
32170	11	60	20
32116	1.3	100 ++	6.5
32424	3	100 ++	15



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7548

OPERATING ENVIRONMENT

+ Modified Scyllac — Up to 45 kV lab air at sea level, 60 kV under oil.
 ++ Full Scyllac — Up to 60 kV lab air, 100 kV under oil.
 For operating in environmental conditions exceeding the given values consult Maxwell.

Series C High Energy Capacitors

Voltage Rev (%)	Peak Current (KA)	Design Life*	Test ringing** freq. (KHz)/ curve	Approx. Induct. (nH)	Case Size L x W x H		Approx LBS
					Inches	Millimeters	
80	100	1 x 10 ⁵	10/A	35	8 x 14 x 24.1	204 x 356 x 613	165
10	100	2 x 10 ⁵	10/A	35	7.25 x 14 x 24.1	185 x 356 x 613	145
10	100	4 x 10 ⁴	10/A	40	11 x 14 x 26.5	280 x 356 x 674	250
10	125	3 x 10 ³	40/B	35	7.25 x 14 x 27.3	185 x 356 x 694	170
10	125	3 x 10 ³	40/B	35	8.38 x 14 x 27.3	213 x 356 x 694	200
10	125	3 x 10 ³	40/B	35	11 x 14 x 27.5	280 x 356 x 699	260
10	150	3 x 10 ³	40/B	40	12 x 16 x 27.5	305 x 407 x 699	320
80	50	1 x 10 ⁵	10/A	45	8.38 x 14 x 24.1	213 x 356 x 613	165
10	50	2 x 10 ⁵	10/A	60	7.25 x 14 x 24.6	185 x 356 x 625	145
10	65	1 x 10 ⁵	10/A	60	8.38 x 14 x 27.0	213 x 356 x 686	185
10	50	4 x 10 ⁴	10/A	50	11 x 14 x 26.5	280 x 356 x 674	250
10	100	3 x 10 ³	40/B	50	7.25 x 14 x 27.3	185 x 356 x 694	170
10	100	3 x 10 ³	40/B	50	8.38 x 14 x 27.3	213 x 356 x 694	200
10	125	3 x 10 ³	40/B	50	11 x 14 x 27.5	280 x 356 x 699	260
10	150	3 x 10 ³	40/B	45	12 x 16 x 27.4	305 x 407 x 696	320
60	180	2.5 x 10 ⁴	120/C	40	11 x 14 x 27.0	280 x 356 x 686	265
10	50	4 x 10 ⁴	10/A	75	11 x 14 x 27.0	280 x 356 x 686	255
10	100	3 x 10 ³	40/B	80	7.25 x 14 x 27.6	185 x 356 x 701	170
10	100	3 x 10 ³	40/B	80	8.38 x 14 x 27.6	213 x 356 x 701	200
10	150	3 x 10 ³	40/B	70	11 x 14 x 27.6	280 x 356 x 701	260
10	150	3 x 10 ³	40/B	70	12 x 16 x 27.6	305 x 407 x 701	325
60	250	1 x 10 ⁴	120/C	40	11 x 14 x 27.0	280 x 356 x 686	265
40	200	1 x 10 ⁴	120/C	40	11 x 14 x 28.0	280 x 356 x 712	275
10	50	5 x 10 ⁴	10/A	100	11 x 14 x 27.0	280 x 356 x 686	255
30	150	3.5 x 10 ⁴	120/C	40	11 x 14 x 25.0	280 x 356 x 635	230
20	260	1 x 10 ⁴	120/C	40	11 x 14 x 25.0	280 x 356 x 635	235

*Design life is given in charge/discharge cycles with 90% survivability at maximum voltage, peak current, voltage reversal, and test ringing frequency given in tables.

**See ringing frequency graph for appropriate curve — A, B, or C.

Specifications are subject to change without prior notice.

2.11 MV

25 FT
100K5

Weight KG	Case & Bushing Detail
74.8	C1
65.8	C1
113.4	C1
77.1	C1
90.7	C1
117.9	C1
145.2	C2
74.8	C1
65.8	B1
83.9	B1
113.4	A1
77.1	B1
90.7	B1
117.9	B1
145.2	C2
120.2	E
115.7	A2
77.1	A1
90.7	A1
117.9	E
147.4	E
120.2	E
124.7	E
115.7	A2
104.3	F
106.6	F

