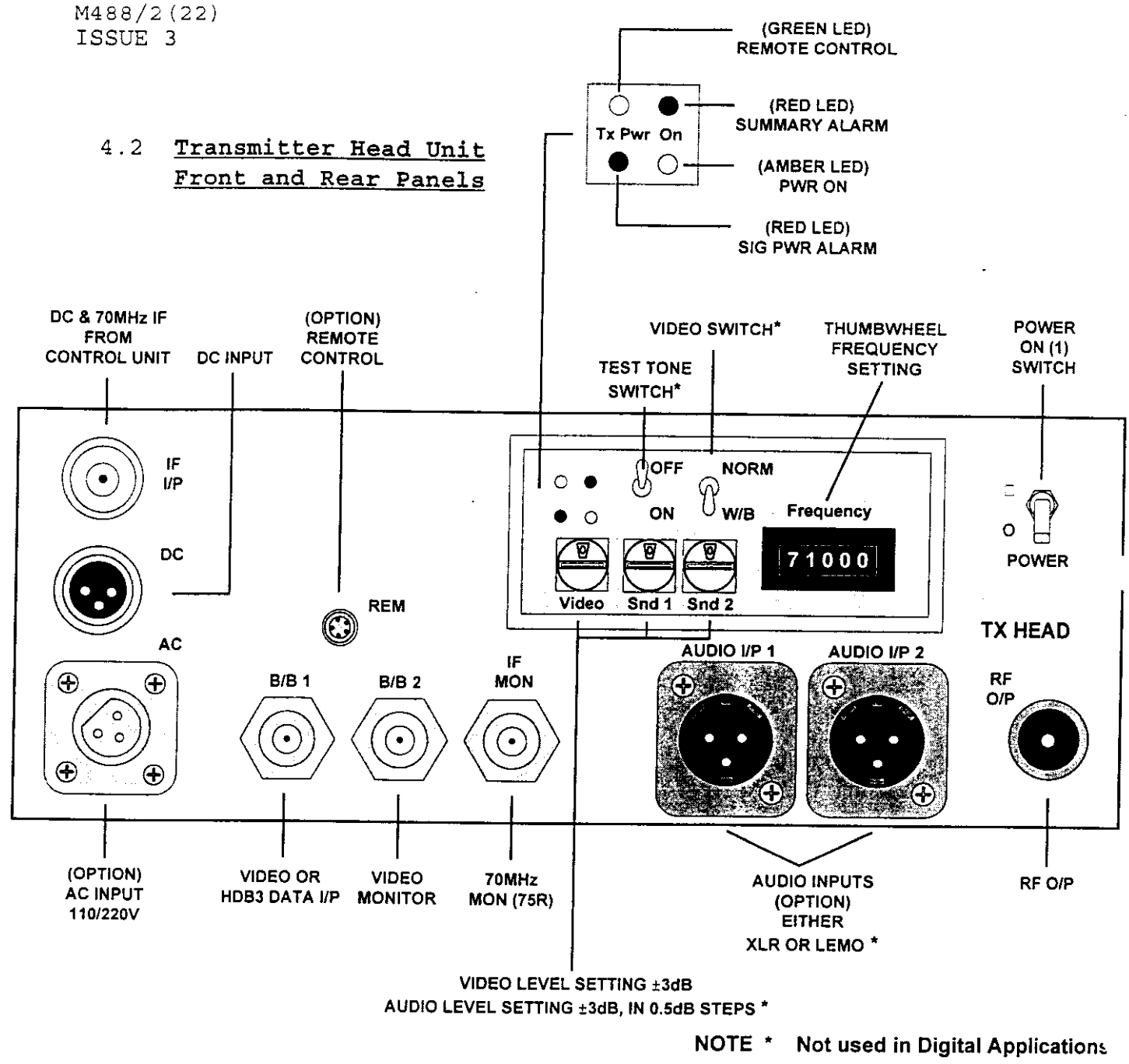
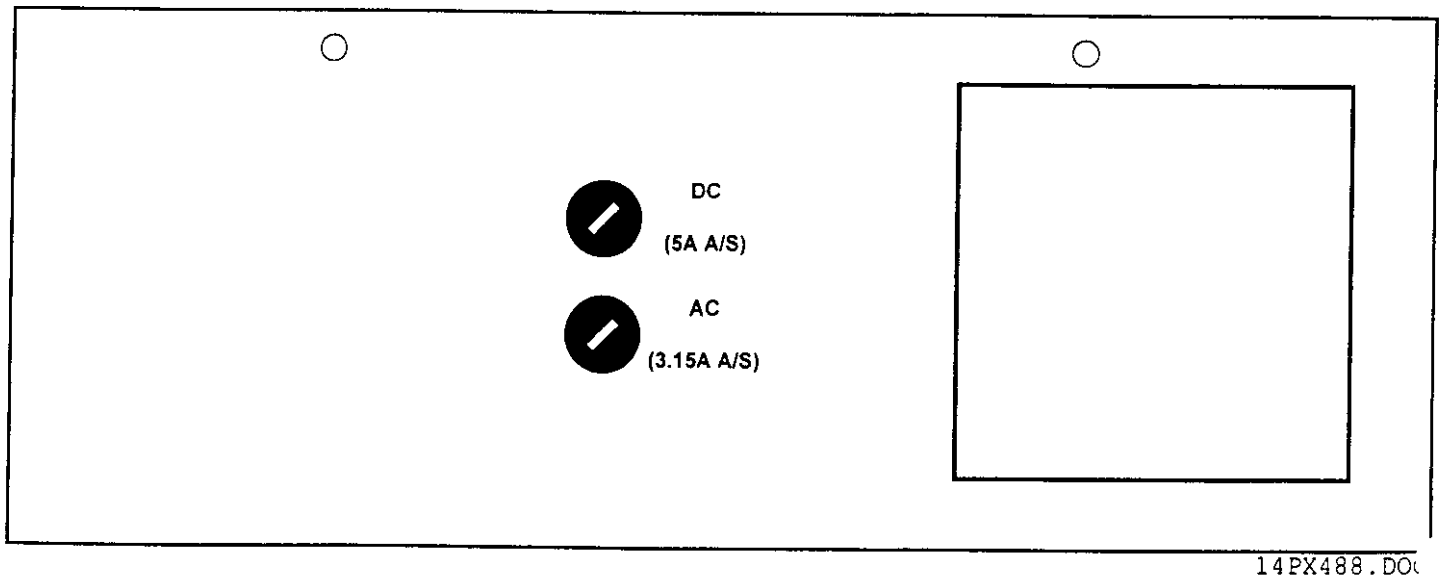
4.2 Transmitter Head Unit Front and Rear Panels



NOTE * Not used in Digital Applications



14PX488.DOC

Fig. 20 Transmitter Head Unit Front and Rear Panels

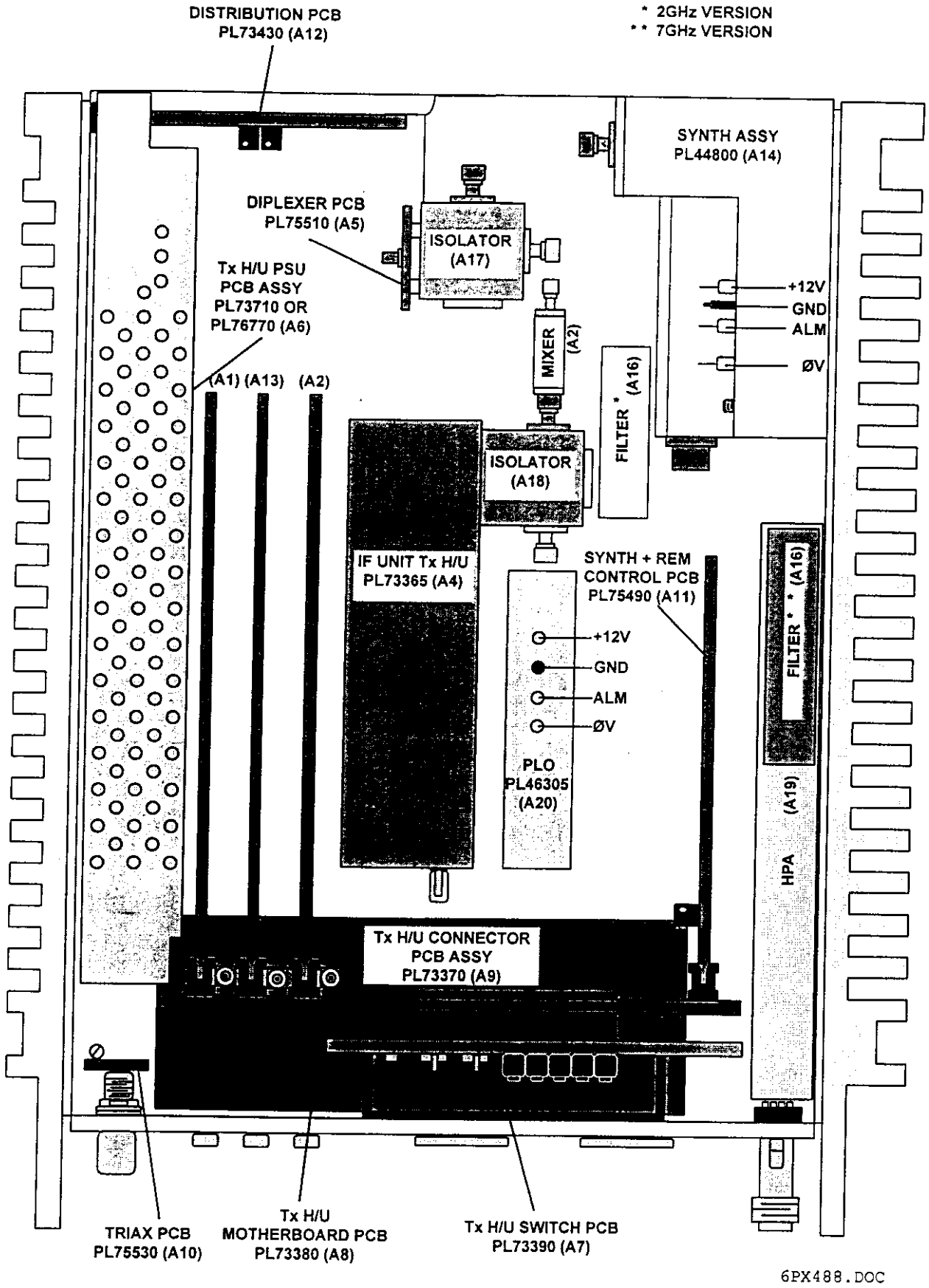
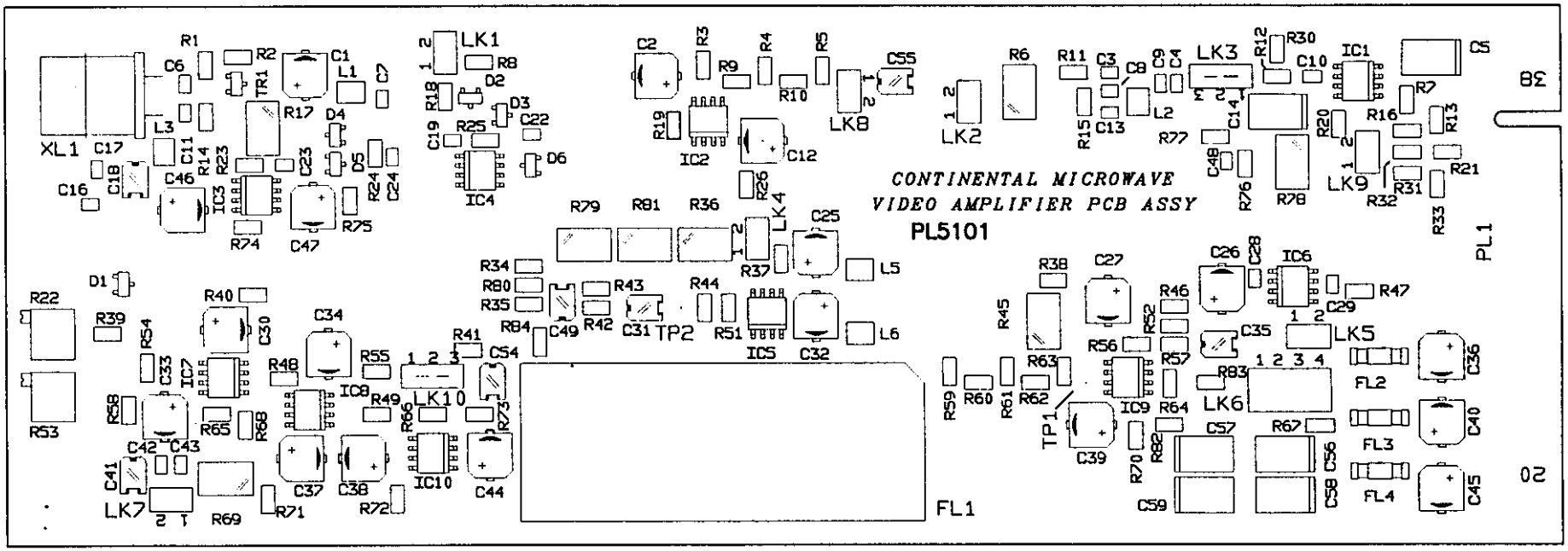
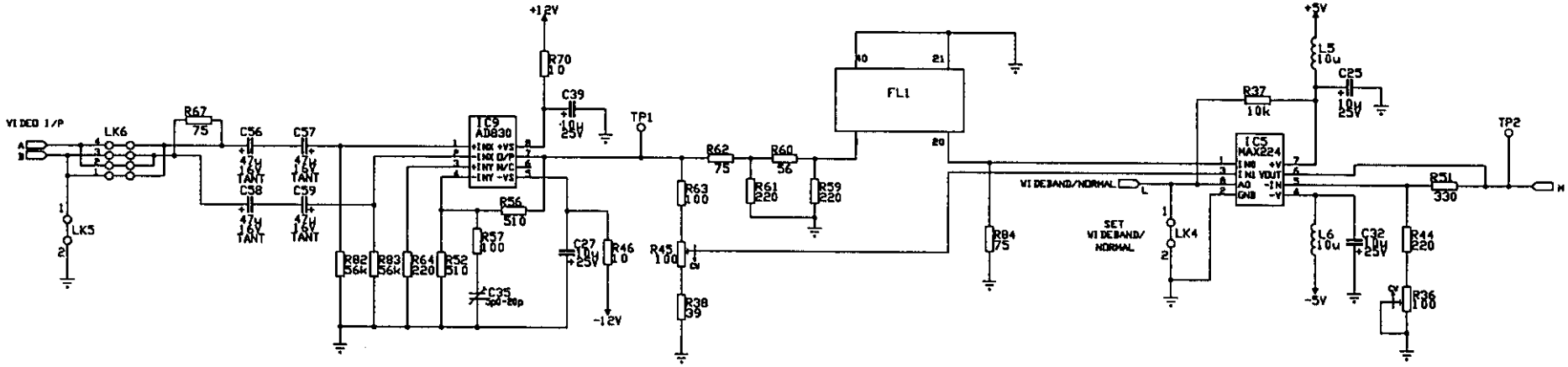
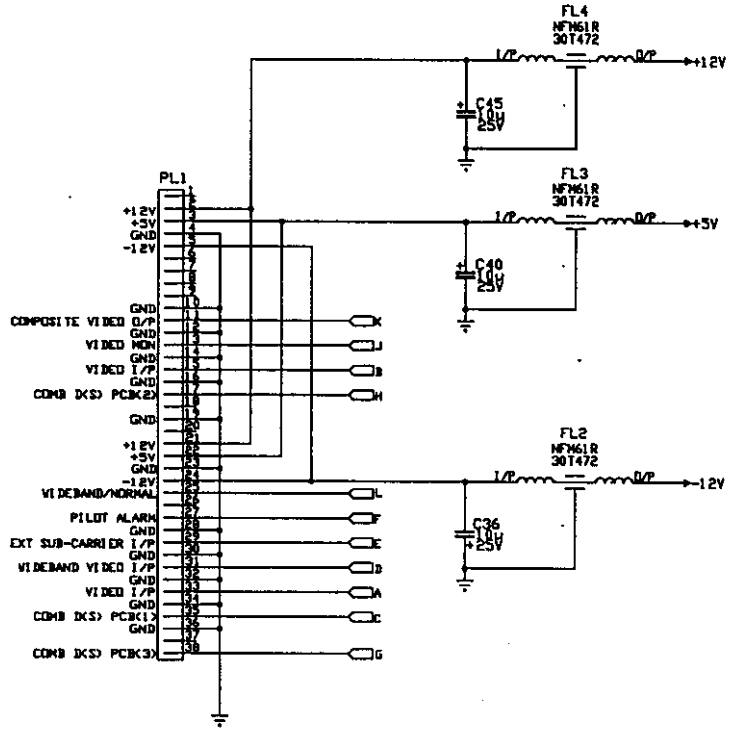


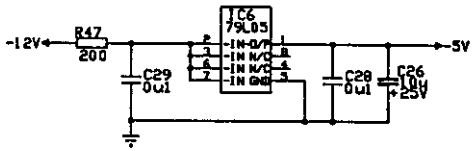
Fig.24 Transmitter Head Unit Top View



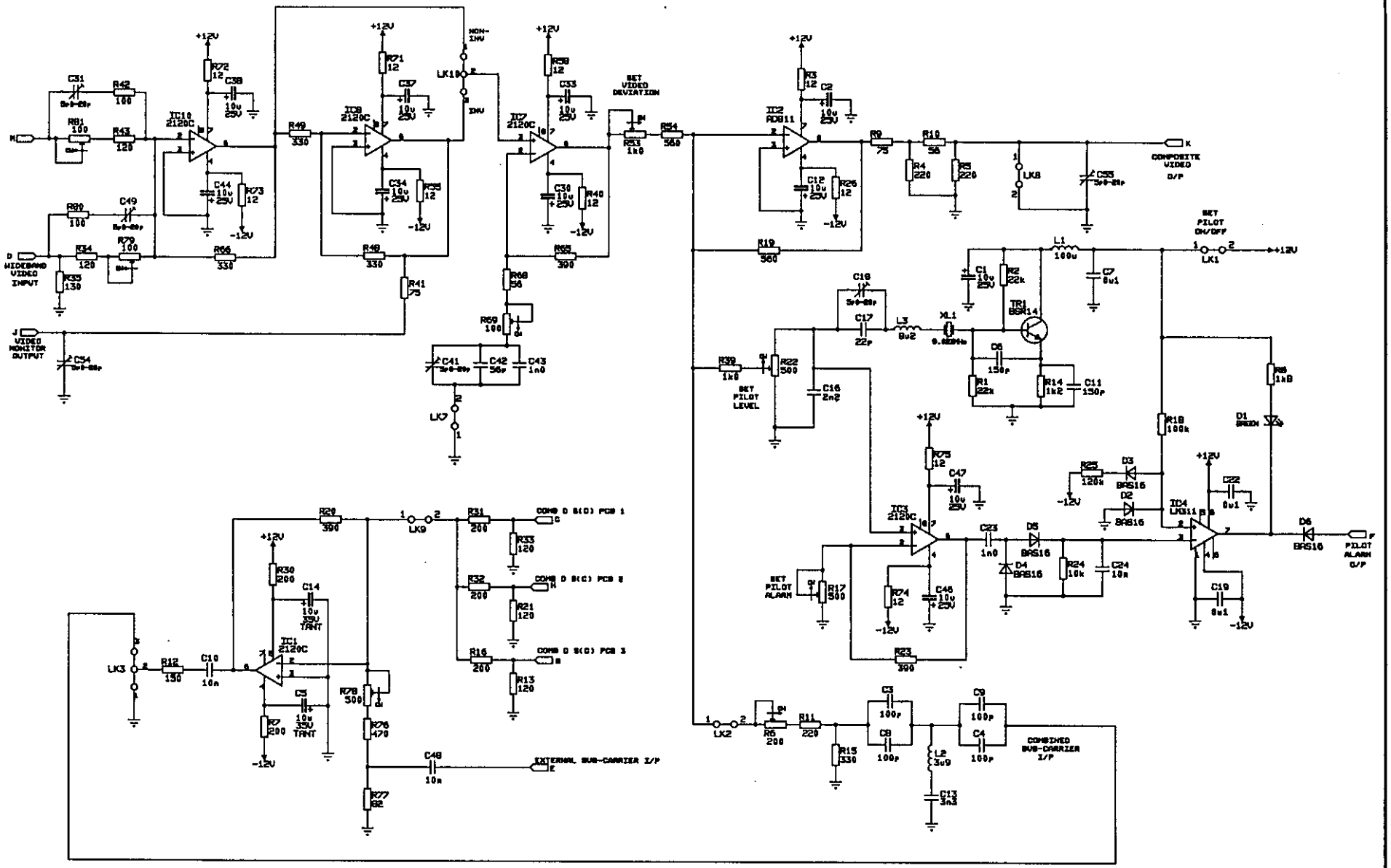
RF TECHNOLOGY INC. COMMERCIAL IN CONFIDENCE	RF TECHNOLOGY, INC. INNOVATORS IN MICROWAVE COMMUNICATIONS
TOLERANCES: xx = .01, xxx = .005, xxxx = .0005, ANGLE = .05	COMPONENT LAYOUT TRANSMITTER VIDEO AMP ACL TRANSMITTER
UNITS: DECIMAL INCHES	DRAWN BY: DEM; CHECKED BY: PF; APPROVED BY: MW; DWG NO: MA5101; PAGE: 1; REV:
DWG FILE: MA5101.DWG	SCALE: ; DATE: 7/29/96; PART #: ; REV:



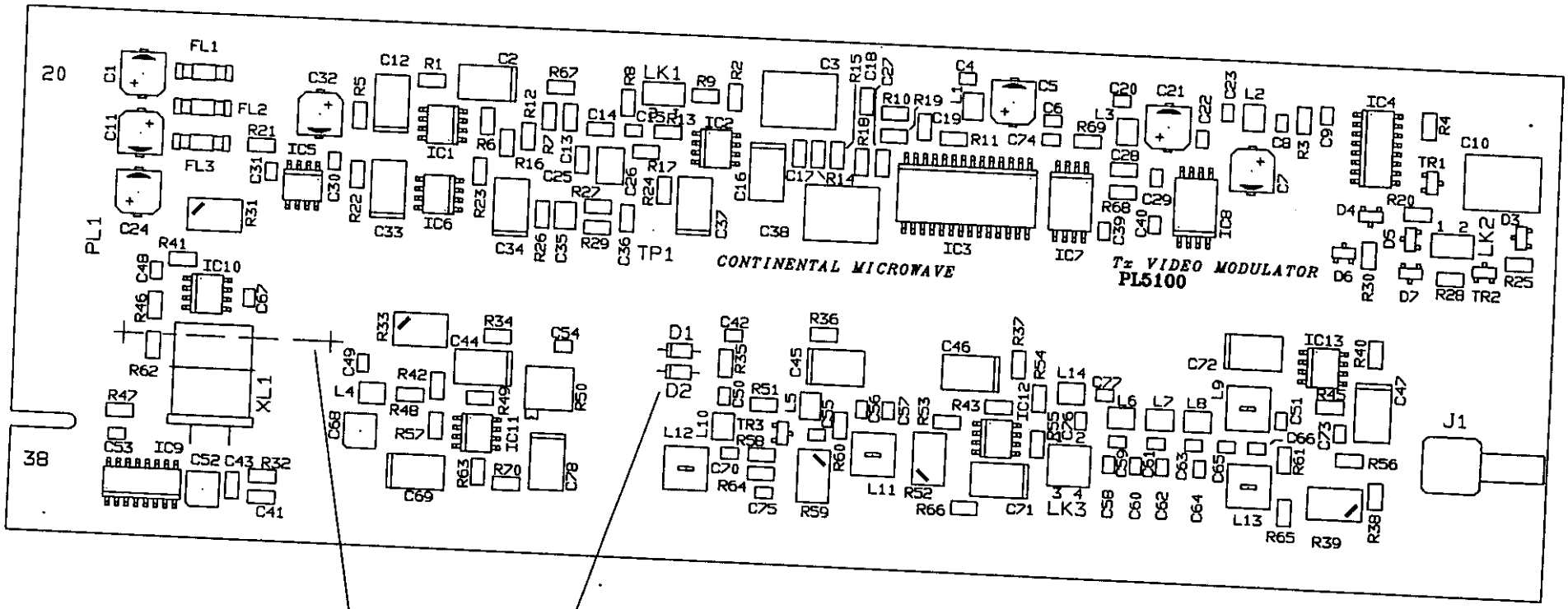




RF TECHNOLOGY INC. COMMERCIAL IN CONFIDENCE				INNOVATORS IN MICROWAVE COMMUNICATIONS	
TOLERANCES xx = .01 xxx = .005 xxxx = .0005 ANGLES = .05	SCHEMATIC VIDEO TRANSMITTER AMP ACL TRANSMITTER				
UNLESS OTHERWISE SPECIFIED: DECIMAL INCHES	DRAWN BY: DEM	CHECKED BY: PF	APPROVED BY: MW	DWG NO: MA5101	REV: 1/2
MATERIAL:	SCALE:	DATE: 7/29/96	PART #:		
FINISH:					
NEXT ASSY: MA5101-1.DWG					



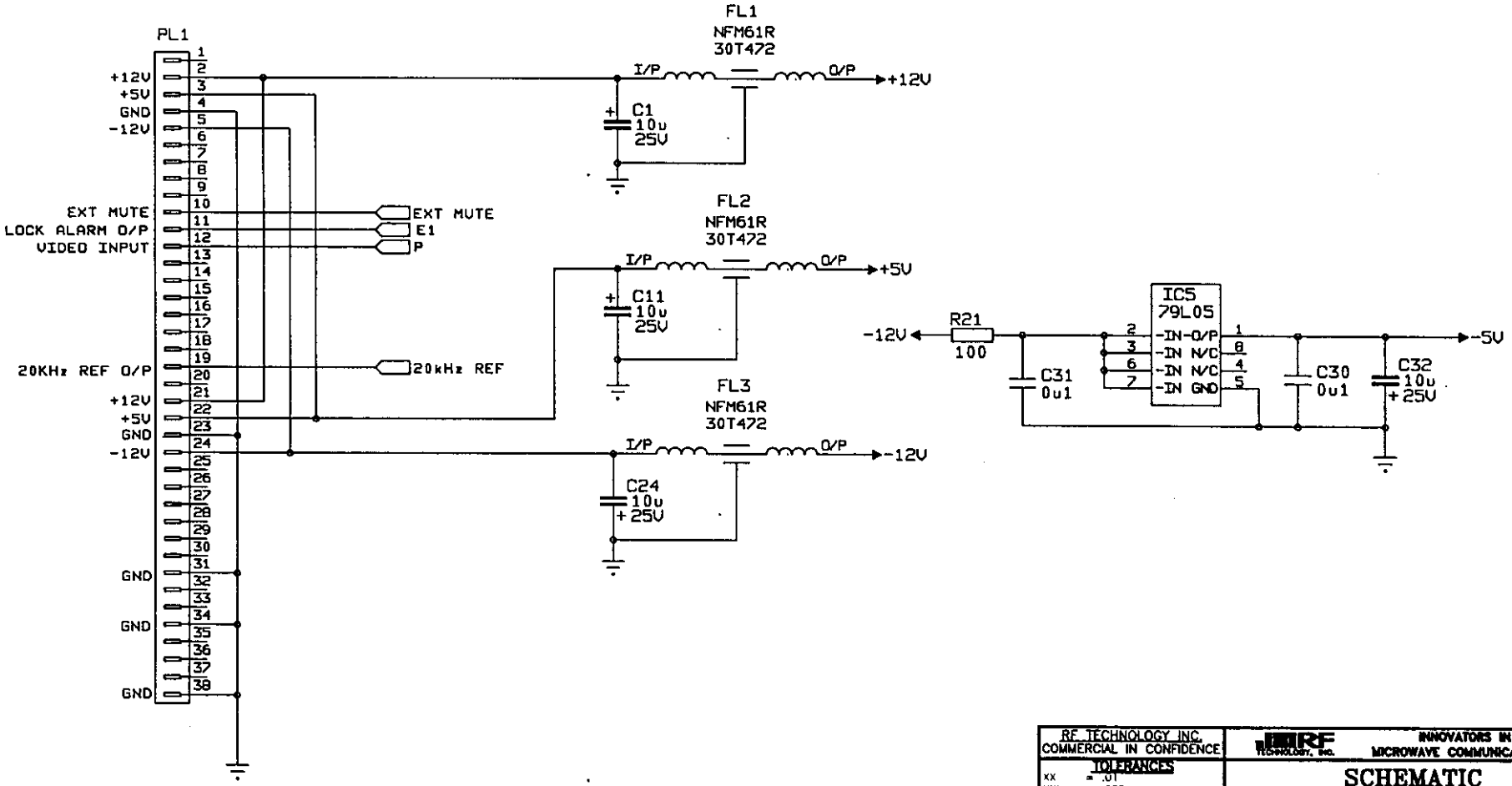
RF TECHNOLOGY INC. COMMERCIAL IN CONFIDENCE	RF TECHNOLOGY, INC. — INNOVATORS IN MICROWAVE COMMUNICATIONS
TOLERANCES: XX = .01, XXX = .005, XXXX = .0005, ANGLE = .05	SCHEMATIC TRANSMITTER VIDEO AMP ACL TRANSMITTER
UNITS: DECIMAL INCHES	DRAWN: DEM; CHECKED: PF; APPROVED: MW; SIZE: A; DWG NO: SM5101; REV: 2/2
DRAWING NO: MA5101-1.DWG	SCALE: NTS; DATE: 7/29/96; SHEET: 1 OF 1



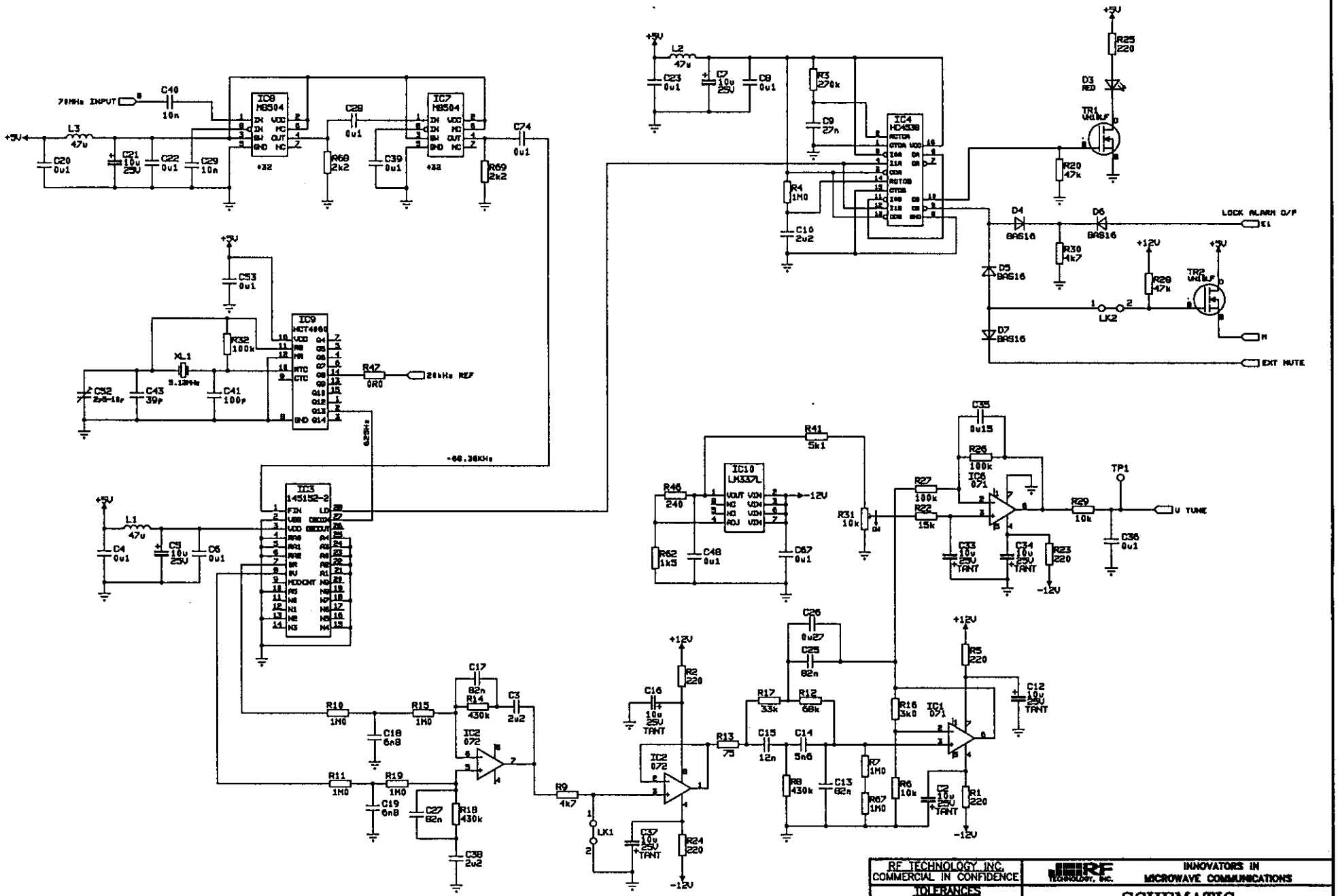
SOLDER SEMI-RIGID CABLE TO UNDERSIDE OF PCB IN EXACT POSITION SHOWN

BEND LEGS OF D1 & D2 TO SOLDER ONTO PADS

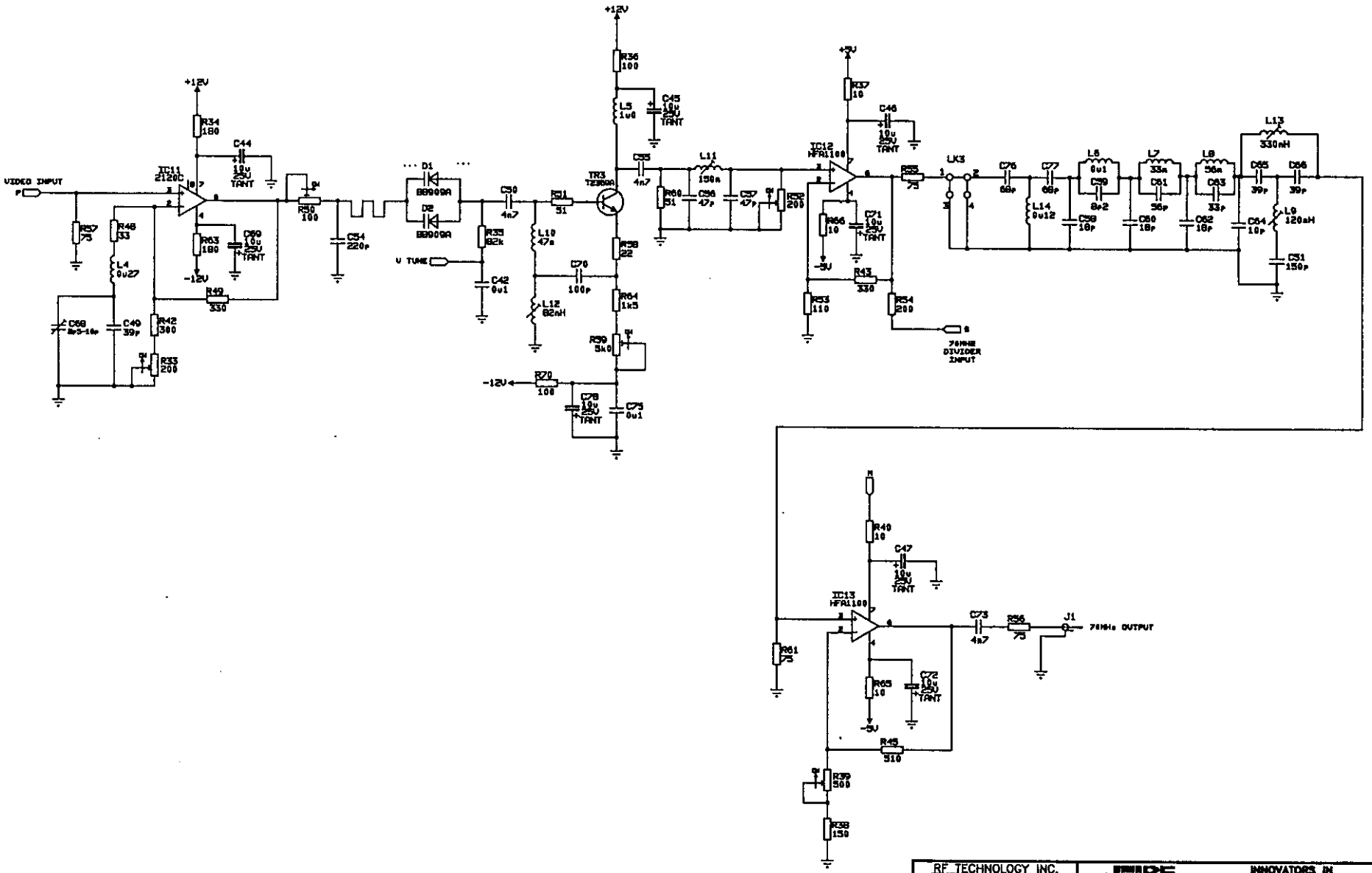
RF TECHNOLOGY INC. COMMERCIAL IN CONFIDENCE	RF TECHNOLOGY, INC. INNOVATORS IN MICROWAVE COMMUNICATIONS
TOLERANCES: xx = .01, xxx = .005, xxxx = .0005, ANGLE = .05	COMPONENT LAYOUT VIDEO MODULATOR PCB ACL TRANSMITTER
UNITS: DECIMAL INCHES	DRAWN DEM · CHECKED PF · APPROVED MW · DWG NO. MA5100 · REV 1
MATERIAL:	SCALE · DATE 7/29/96 · SHEET #
FINISH:	
MA5100.DWG	



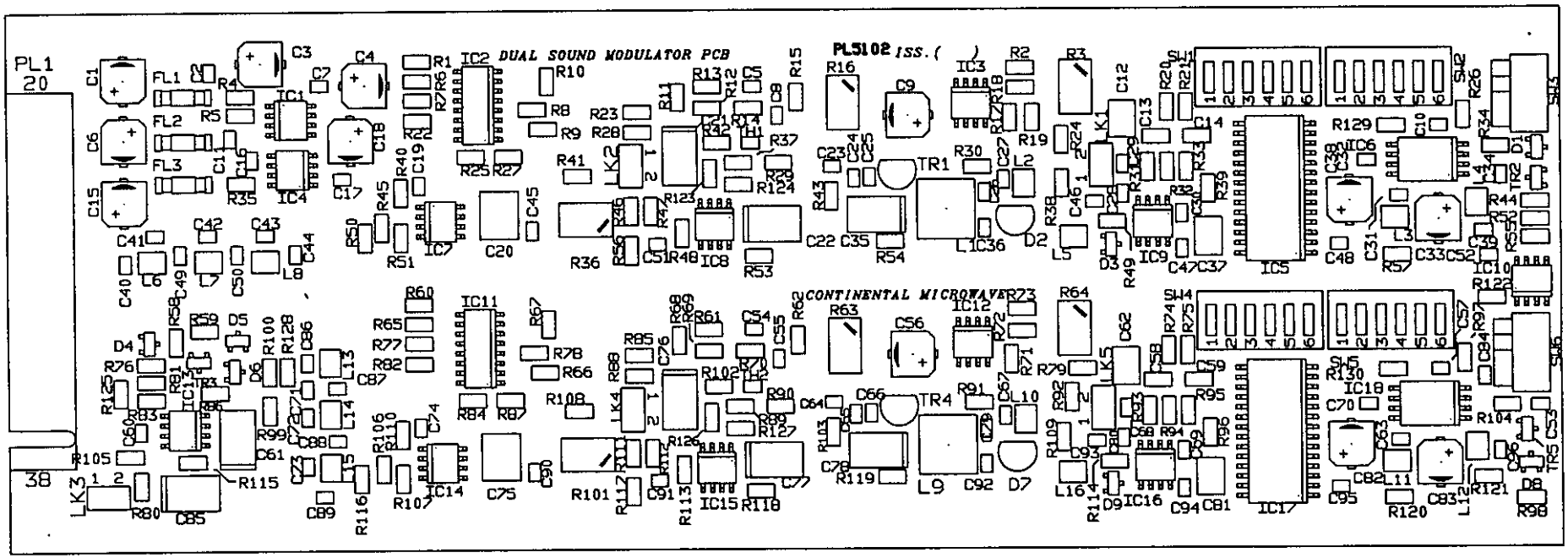
RF TECHNOLOGY INC. COMMERCIAL IN CONFIDENCE	INNOVATORS IN MICROWAVE COMMUNICATIONS
TOLERANCES: XX = .01, XXX = .005, XXXX = .0005, ANGLE = .05; UNITS: DECIMAL INCHES	SCHEMATIC X-MITTER VIDEO MODULATOR ACL TRANSMITTER
MA5100-1.DWG	DEM / PF / MW / MA5100 / 1/3 / 7/29/96



RF TECHNOLOGY INC. COMMERCIAL IN CONFIDENCE	INNOVATORS IN MICROWAVE COMMUNICATIONS
TOLERANCES: XX = .01, XXX = .005, XXXX = .0005, ANGLE = .05; UNITS: DECIMAL INCHES	SCHEMATIC X-MITTER VIDEO MODULATOR ACL TRANSMITTER
MA5100-2.DWG	DRAWN BY: DEM; CHECKED BY: PF; APPROVED BY: MW; DWG NO: MA5100; REV: 2/3; DATE: 7/29/96



RF TECHNOLOGY INC. COMMERCIAL IN CONFIDENCE	RF TECHNOLOGY, Inc. INNOVATORS IN MICROWAVE COMMUNICATIONS
TOLERANCES XX = .01 XXX = .005 XXXX = .0005 ANGLE = .05	SCHEMATIC X-MITTER VIDEO MODULATOR ACL TRANSMITTER
UNITS DECIMAL INCHES	DRN DEM · CHKD PF · APPROVED MW · DWG NO MA5100 · REV 3
MATERIAL	SCALE · DATE 7/29/96 · SHT # · SIZE A
FINISH	
DWG NO MA5100-3.DWG	



NOTE:- SOLDER SEMI-RIGID CABLE (ITEM No.7000) TO THE UNDERSIDE OF THE PCB IN POSITIONS SHOWN.

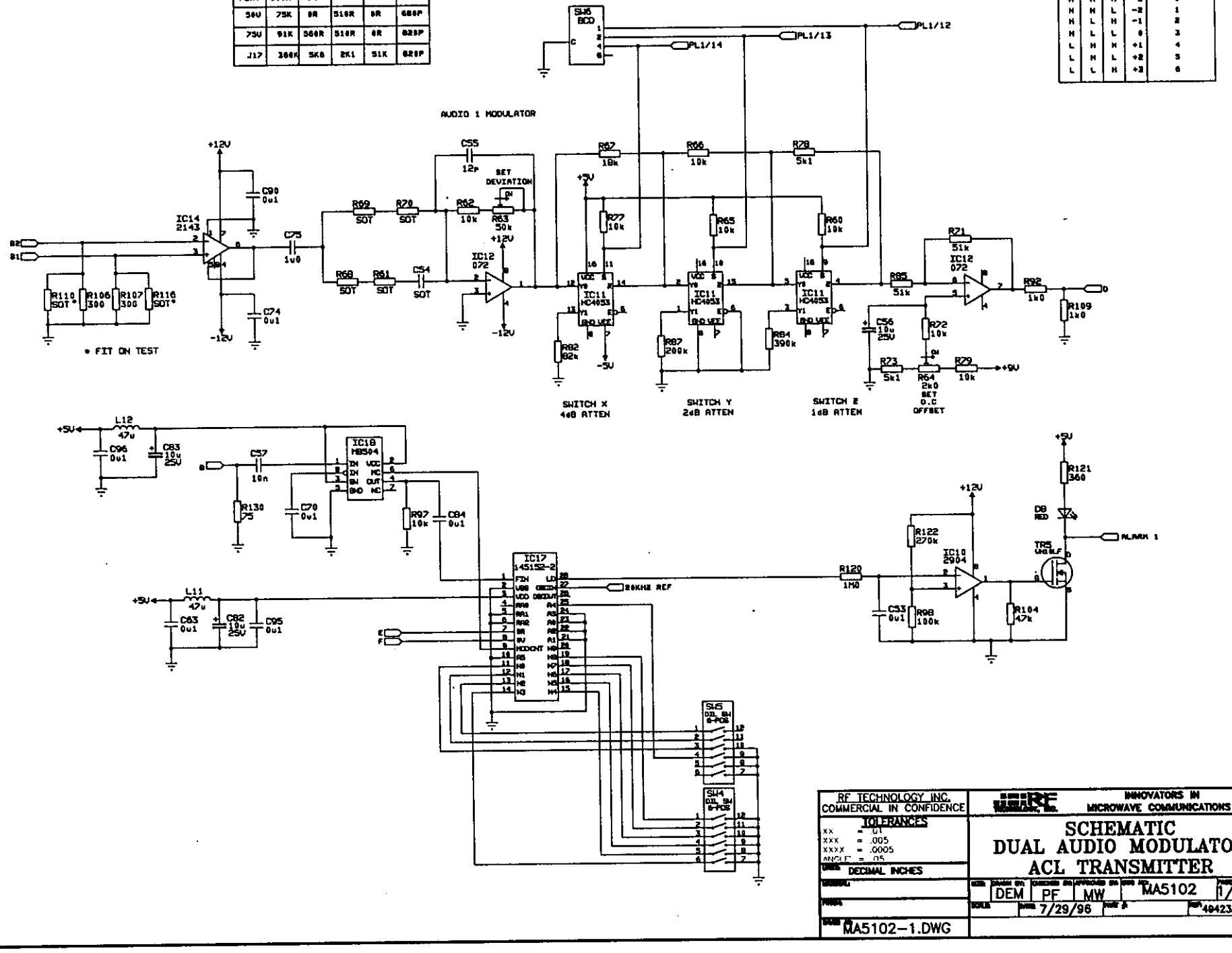
RF TECHNOLOGY INC. COMMERCIAL IN CONFIDENCE	INNOVATORS IN MICROWAVE COMMUNICATIONS
TOLERANCES: XX = .01, XXX = .005, XXXX = .0005, ANGLE = .05	COMPONENT LAYOUT DUAL AUDIO MODULATOR ACL TRANSMITTER
UNITS: DECIMAL INCHES	
MATERIAL:	DRAWN: DEM; CHECKED: PF; APPROVED: MW; DWG NO: MA5102; REV: 1
FINISH:	SCALE: ; DATE: 7/29/96; PART #:
DWG NO: MA5102.DWG	

PRE-EMPHASIS

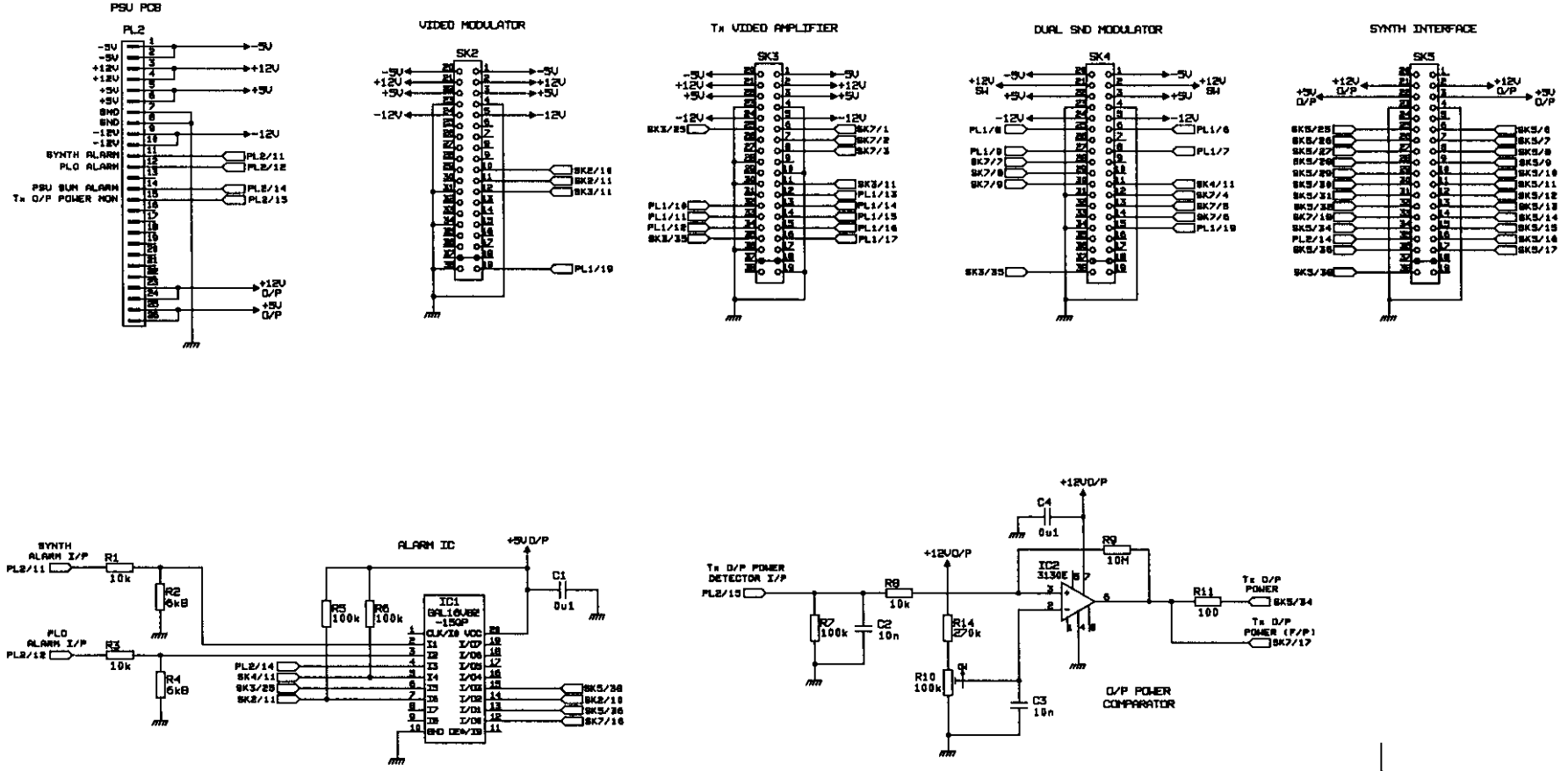
OPP	R69	R70	R68	R61	C54
FLAT	100K	0R	N/F	N/F	N/F
50U	75K	0R	510R	0R	680P
75U	91K	560R	510R	0R	820P
J17	360K	5K6	2K1	51K	820P

AUDIO LEVEL ATTENUATION

4	2	1	dB	SW6 POS'N
H	H	H	-3	0
H	H	L	-2	1
H	L	H	-1	2
H	L	L	0	3
L	H	H	+1	4
L	H	L	+2	5
L	L	H	+3	6



RF TECHNOLOGY INC. COMMERCIAL IN CONFIDENCE	INNOVATORS IN MICROWAVE COMMUNICATIONS
TOLERANCES: xx = .01, xxx = .005, xxxx = .0005, ANGLE = .05	SCHEMATIC DUAL AUDIO MODULATOR ACL TRANSMITTER
UNLESS OTHERWISE SPECIFIED: DECIMAL INCHES	SIZE A; DRAWN DEM; CHECKED PF; APPROVED MW; DWG NO MA5102; REV 1; SHEET 4
MATERIAL	ISSUE 7/29/96; PART # 40423.PLT
FINISH	
DWG NO MA5102-1.DWG	



B	DCLS 1031	P.N	11.7.98
A	NOTE REV?	P.N	2.3.98
ISSUE	REM No. / DESCRIPTION	BY	DATE
DRAWN	DATE	APPROVED	DATE

P.MOTHERBOARD 7.8.98

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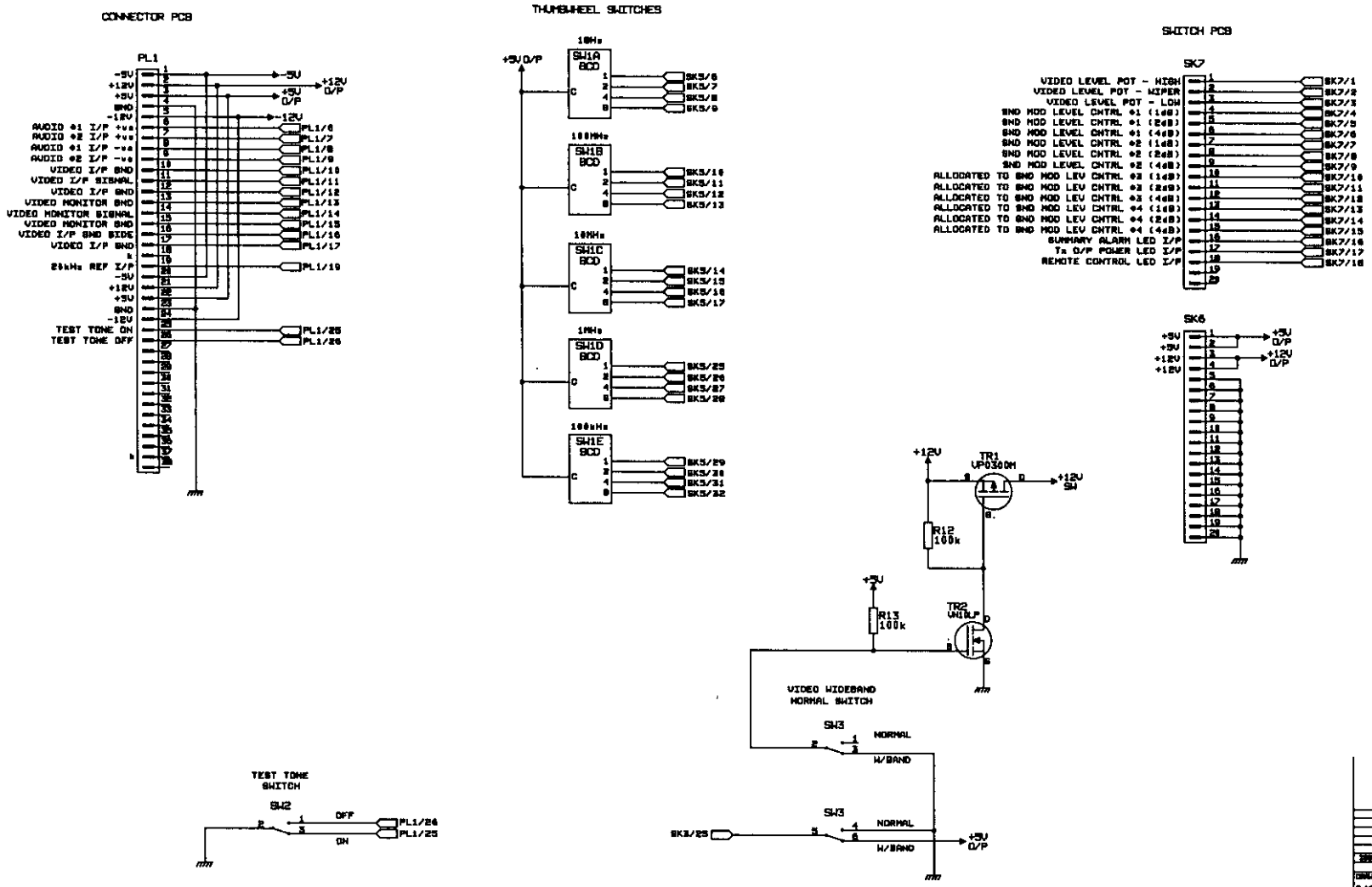
CONTINENTAL MICROWAVE

TITLE: Tx H/V MOTHERBOARD PCB CIRCUIT DIAGRAM

DRAWING No.: E73383

ISSUE: B

SHEET 1 OF 2 SHEETS A1



ISSUE	ECN No. / REVISION		ISS	DATE
DRAWN	DATE	APPROVED		ISS

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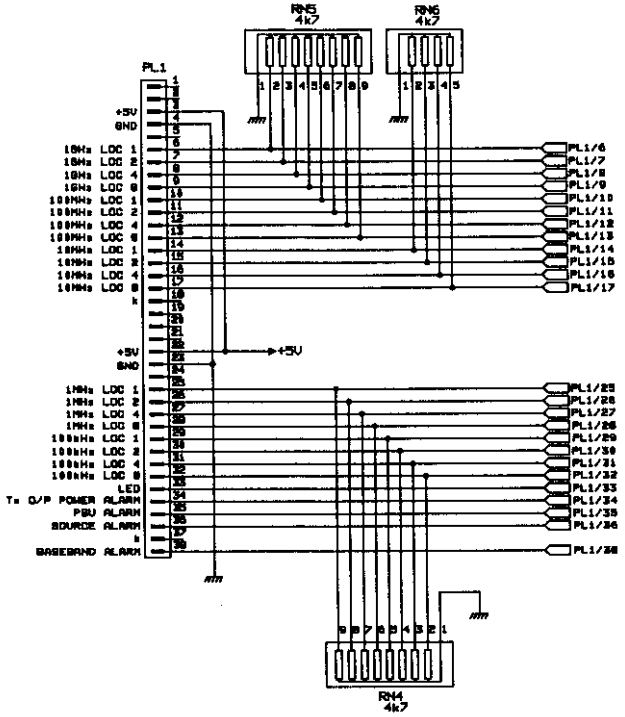
CONTINENTAL MICROWAVE

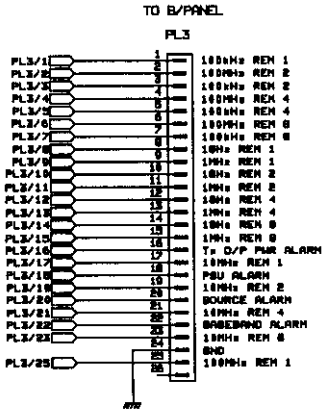
TITLE: Tx H/V MOTHERBOARD PCB CIRCUIT DIAGRAM

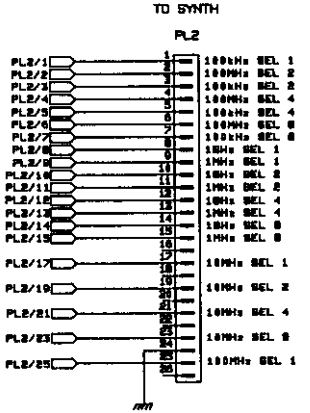
DRAWING No.: E73383

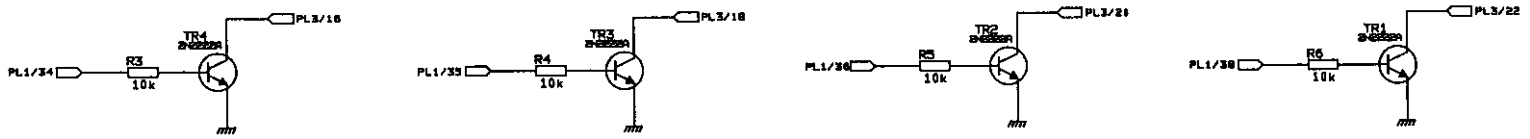
ISSUE: B

SHEET 2 OF 2 SHEETS A1









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ISSUE	ISSUE No. / REVISION	BY	DATE
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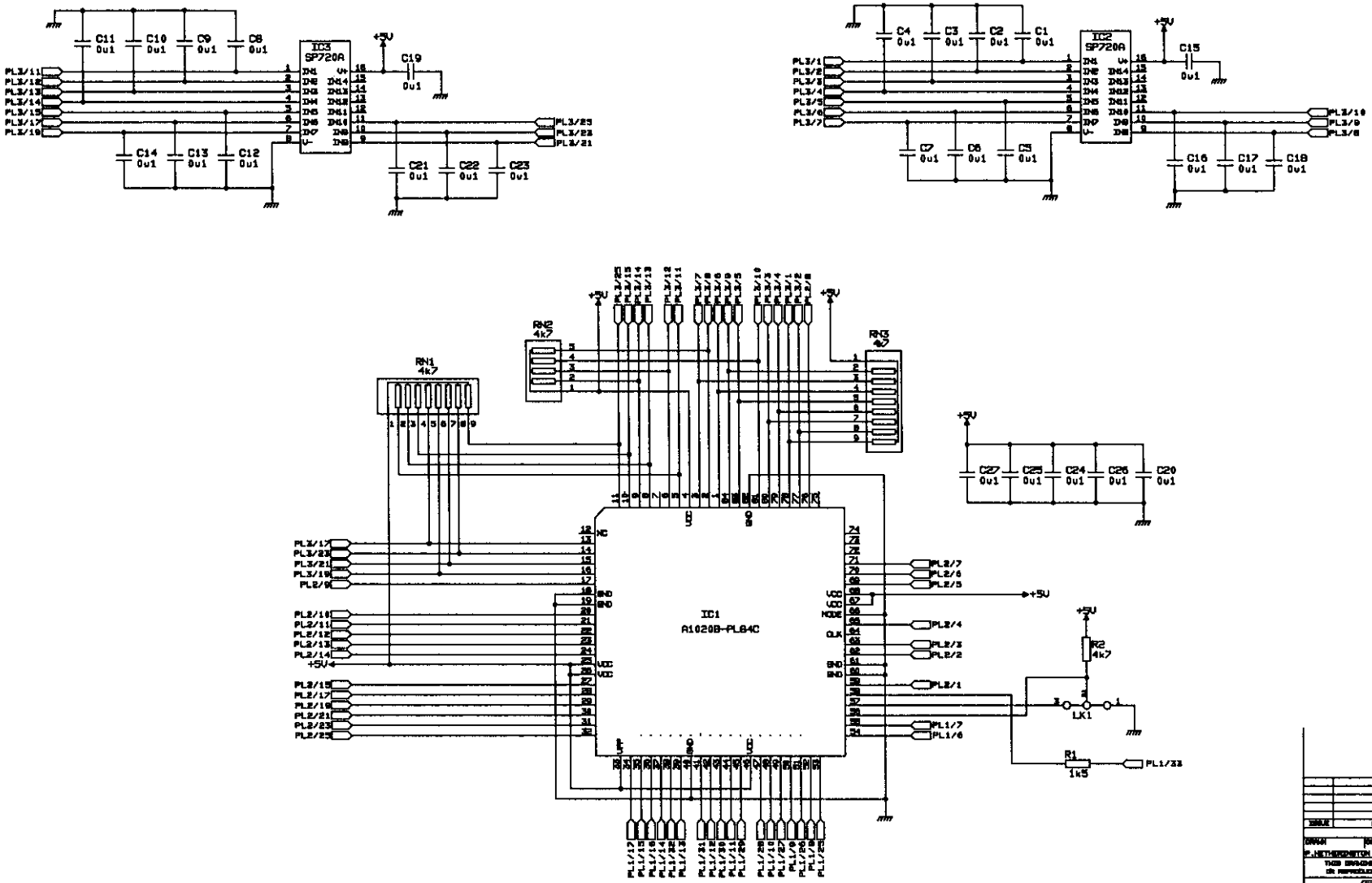
TITLE: SYNTH & REM CNTROL PCB CIRCUIT DIAGRAM

DRAWING No. E73403 — ISSUE A

SHEET 1 OF 2 SHEETS A1



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DRAWN	DATE	APPROVED	CHKD
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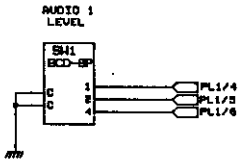
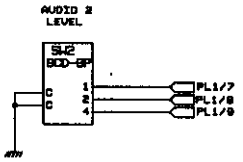
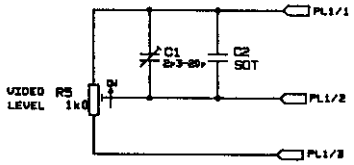
TITLE: SYNTH & REM CNTROL PCB CIRCUIT DIAGRAM

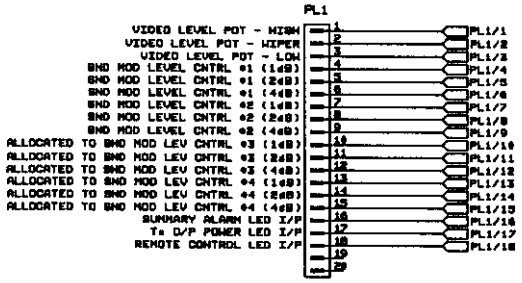
DRAWING No. E73403 ISSUE A

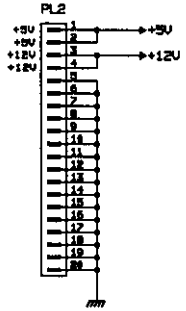
SHEET 2 OF 2 SHEETS A1

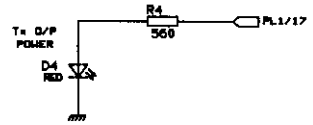


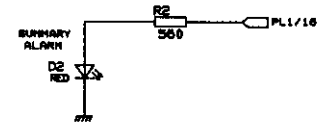


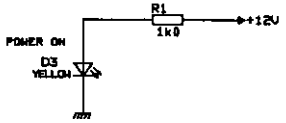


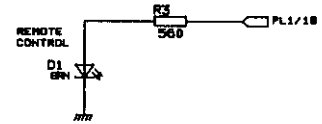












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ENGINEERING SERVICES

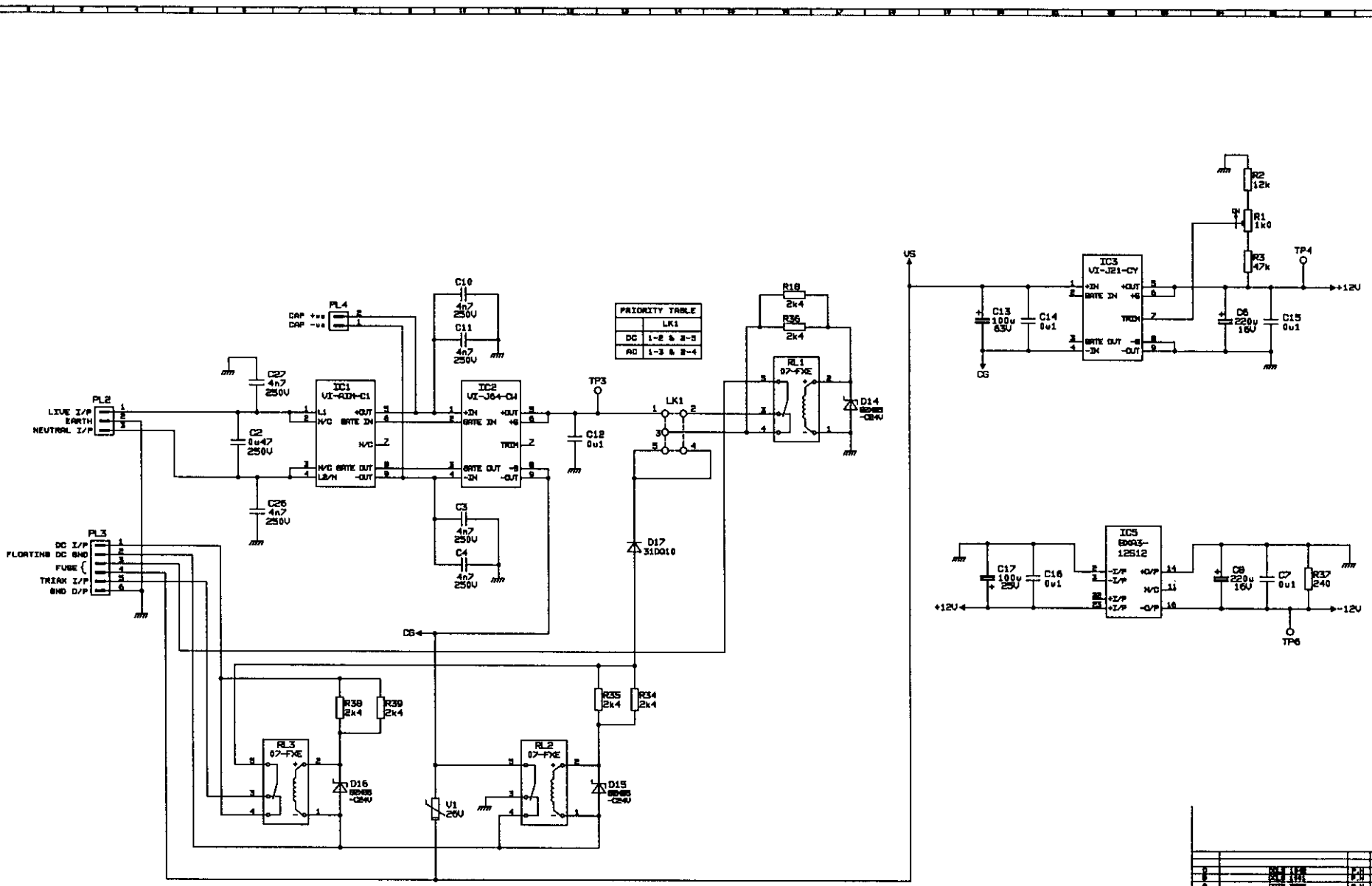
TITLE: Tx H/V SWITCH
PCB CIRCUIT DIAGRAM

DRAWING No. E73393

ISSUE B

SHEET 1 OF 1 SHEETS

A1



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C			
B			
A			
ISSUE			DATE

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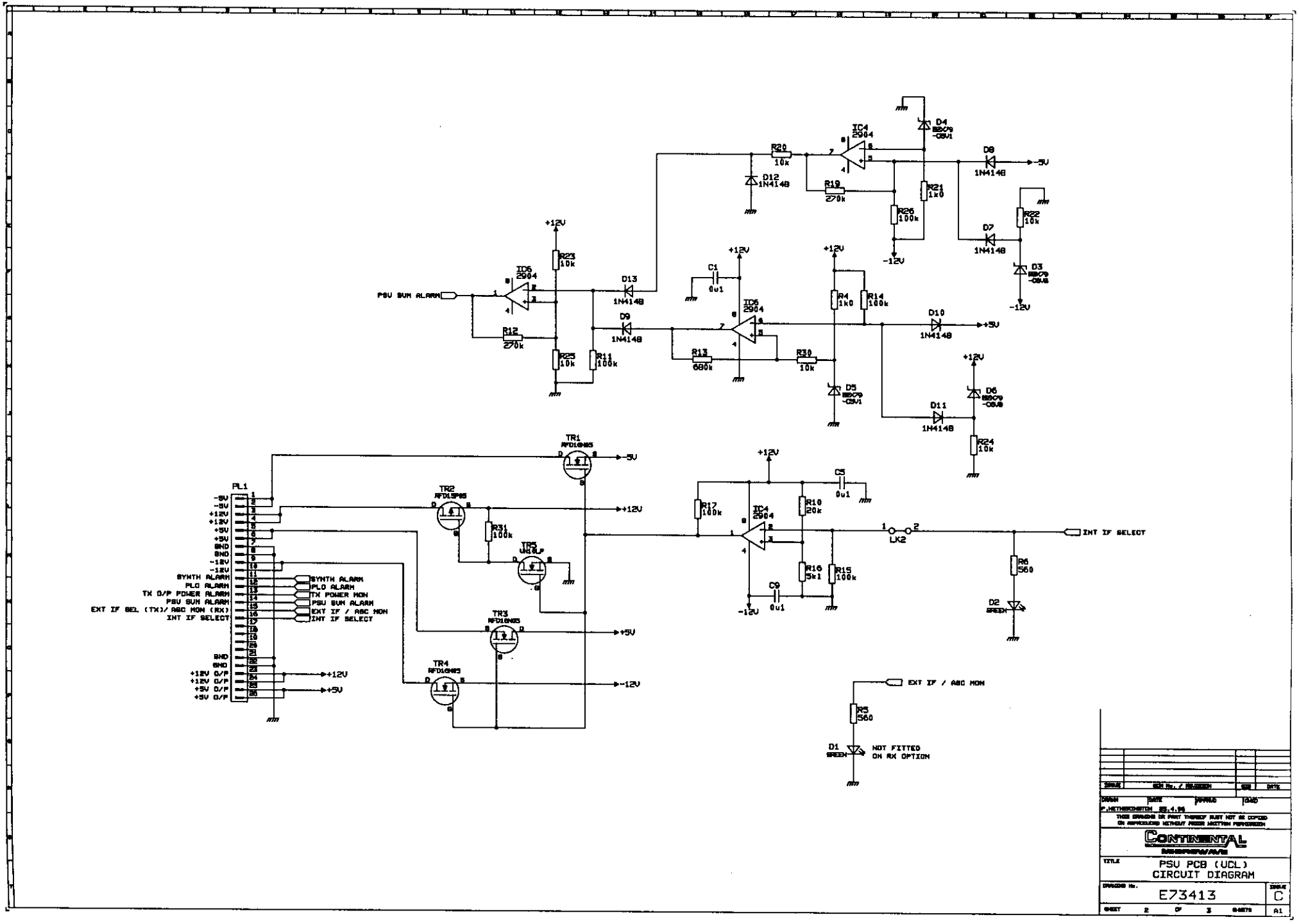
TITLE: PSU PCB (VCL) CIRCUIT DIAGRAM

DRAWING No. E73413 ISSUE C

SHEET 1 OF 3 SHEETS A1



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P.HETHERINGTON	03.4.96		

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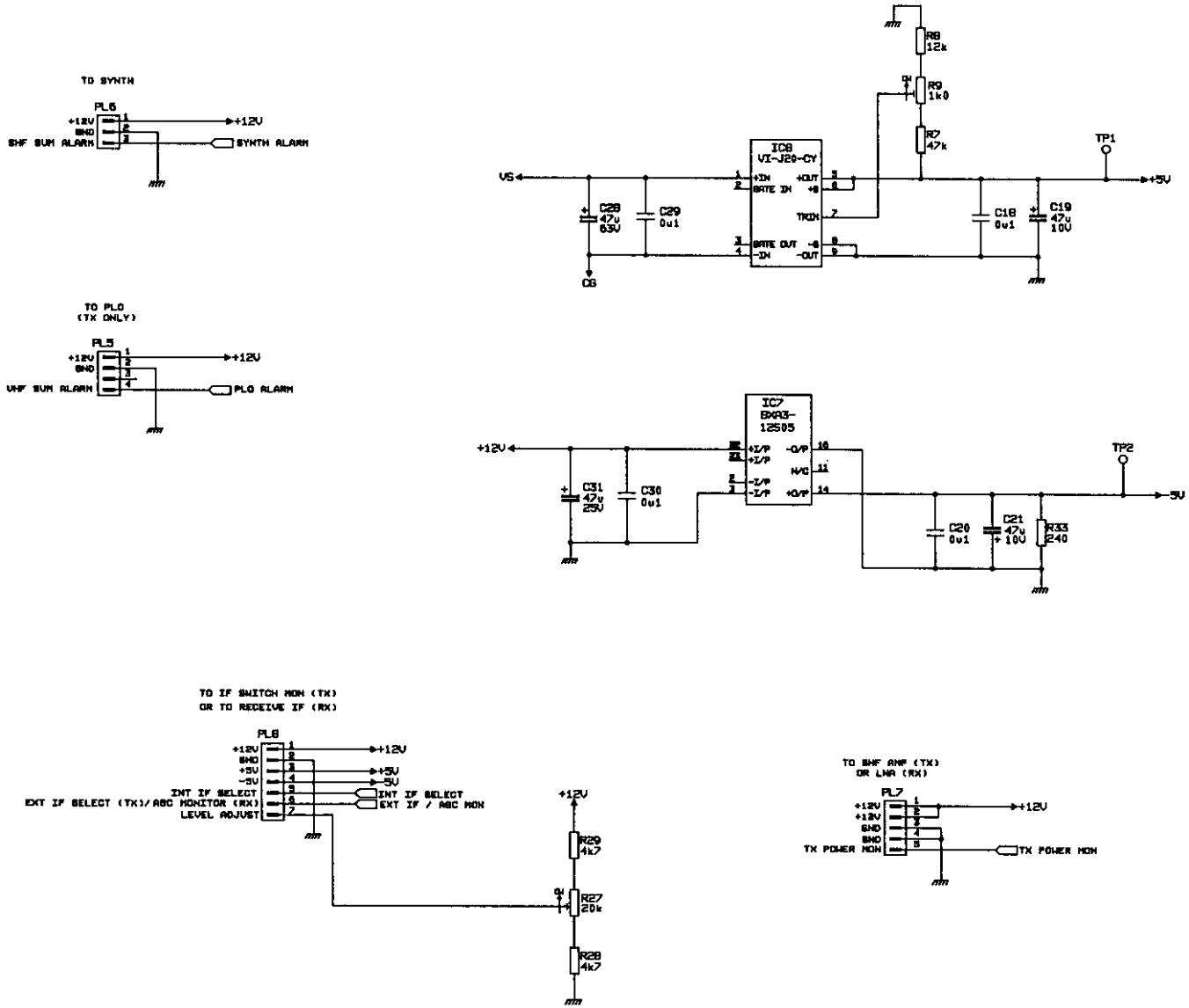
CONTINENTAL MICROWAVE

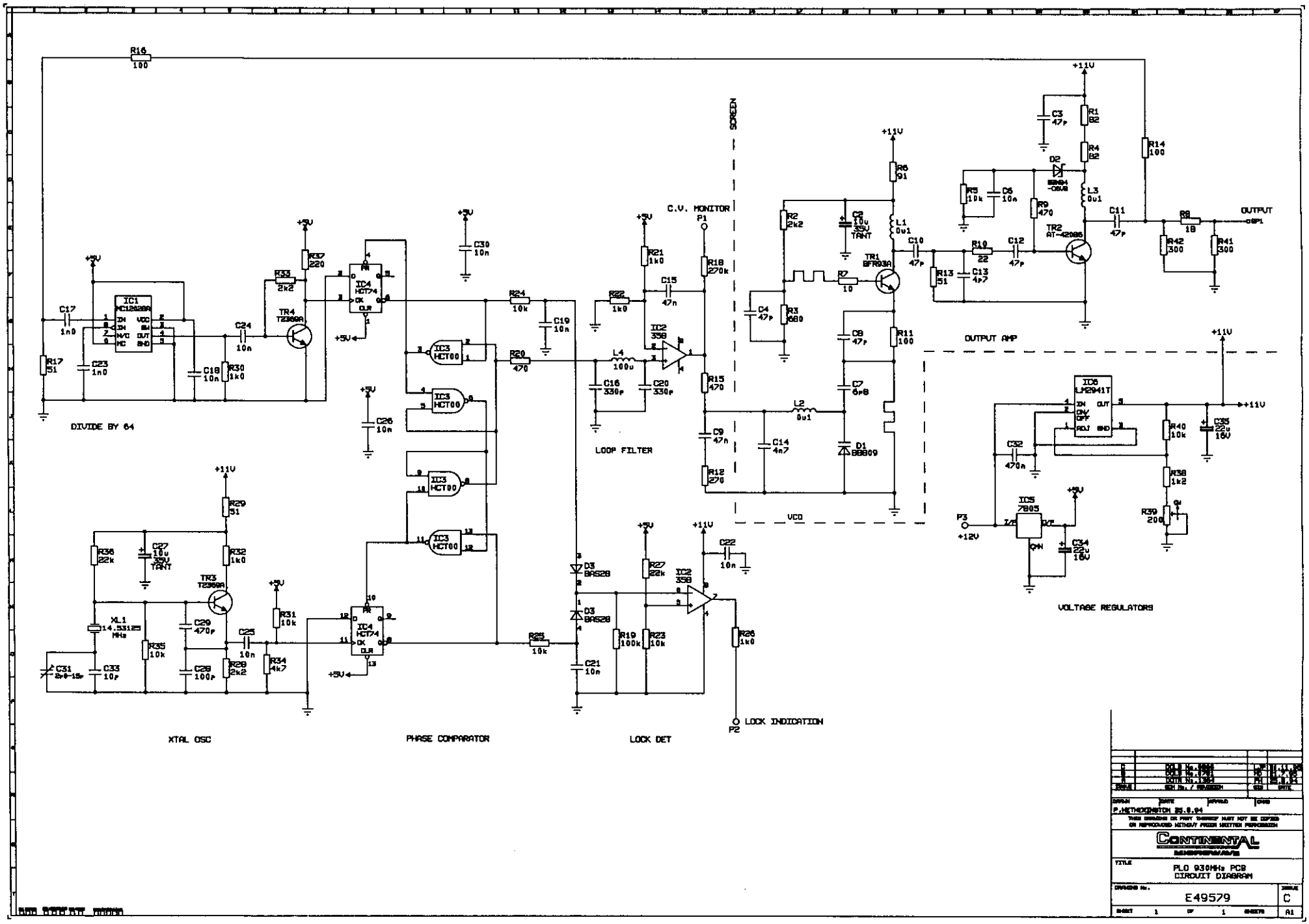
TITLE: PSU PCB (UCL) CIRCUIT DIAGRAM

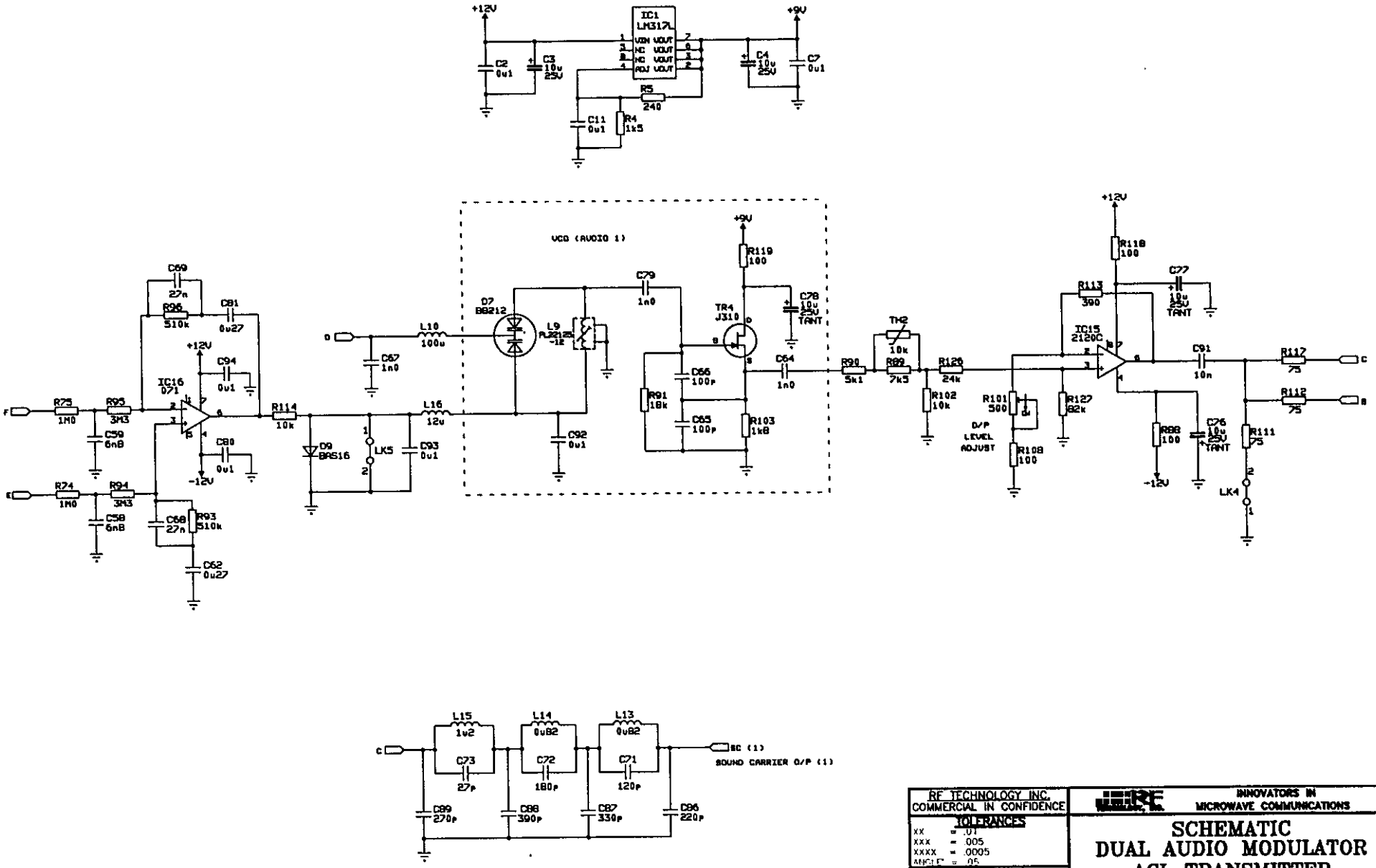
DRAWING No. E73413

ISSUE C

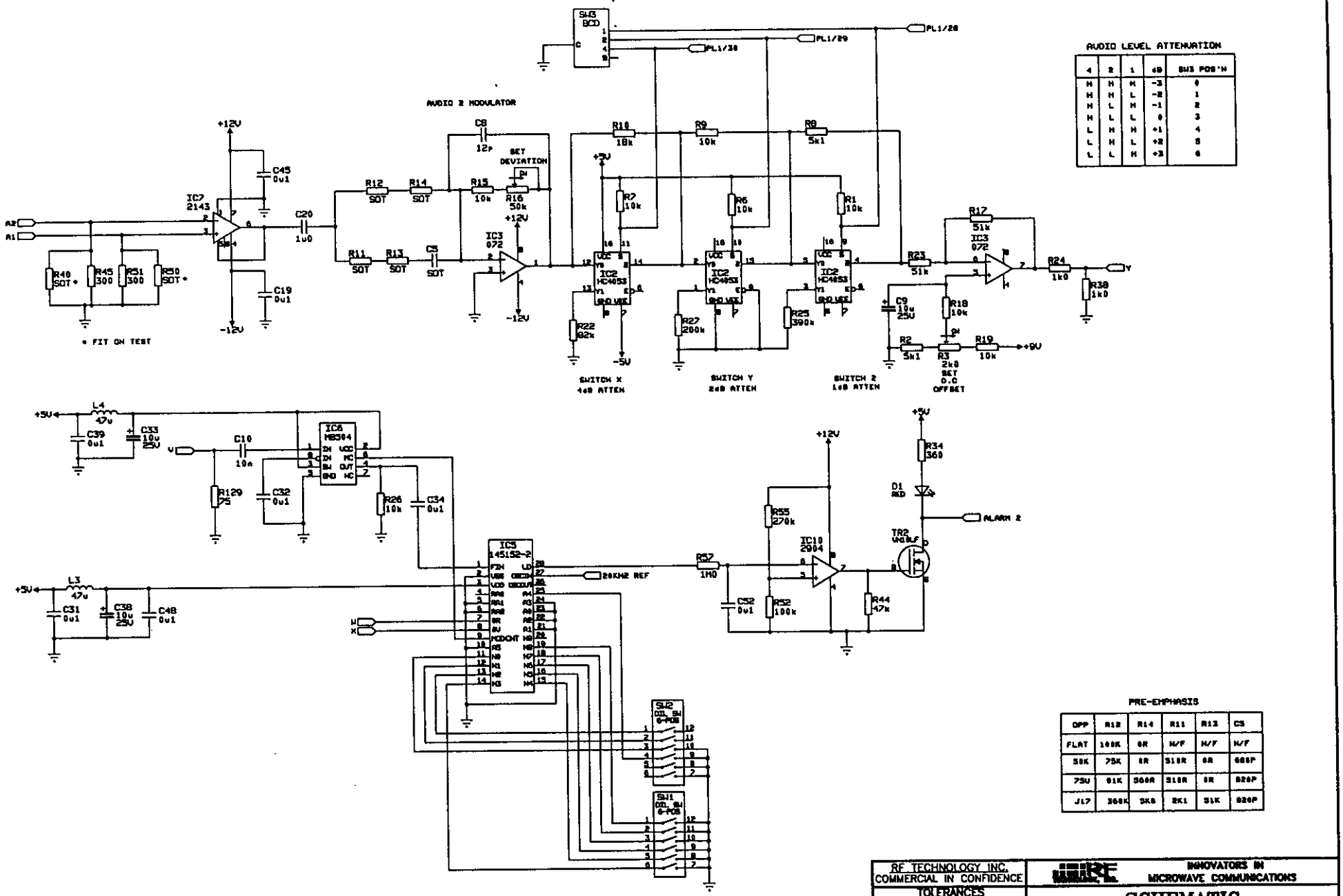
SHEET 2 OF 3 SHEETS A1


TO SYNTH
PL6
+12V
GND
SHF SUM ALARM
+12V
SYNTH ALARM
R8
12k
R9
1k0
R7
47k
TP1
IC8
VI-J20-CY
+IN
BATE IN
+OUT
+S
TRIM
BATE OUT
-S
-IN
-OUT
VS
+5V
C28
47u
63V
C29
0u1
C18
0u1
C19
47u
10V
CG
TO PL8
(TX ONLY)
PL5
+12V
GND
VHF SUM ALARM
+12V
PL8 ALARM
IC7
BMA3-
12505
+I/P
-I/P
-O/P
+O/P
N/C
+12V
TP2
-5V
C31
47u
25V
C30
0u1
C20
0u1
C21
47u
10V
R33
240
TO IF SWITCH MON (TX)
OR TO RECEIVE IF (RX)
PL8
+12V
GND
+5V
-5V
INT IF SELECT
EXT IF SELECT (TX)/ AGC MONITOR (RX)
LEVEL ADJUST
+5V
-5V
INT IF SELECT
EXT IF / AGC MON
+12V
R29
4k7
R27
20k
R28
4k7
TO SHF AMP (TX)
OR LNA (RX)
PL7
+12V
+12V
GND
GND
TX POWER MON
+12V
TX POWER MON
CONTINENTAL
PSU PCB (UCL)
CIRCUIT DIAGRAM
E73413
C
A1


DIVIDE BY 64
XTAL OSC
PHASE COMPARATOR
LOOP FILTER
LOCK DET
VCO
OUTPUT AMP
VOLTAGE REGULATORS
SCREEN
C.V. MONITOR
LOCK INDICATION
OUTPUT
+11V
+5V
+12V
P.METHODISATION 05.8.94
CONTINENTAL
PLO 930MHz PCB
CIRCUIT DIAGRAM
E49579
C
A1



RF TECHNOLOGY INC. COMMERCIAL IN CONFIDENCE	INNOVATORS IN MICROWAVE COMMUNICATIONS
TOLERANCES: XX = .01, XXX = .005, XXXX = .0005, ANGLE = .05	SCHEMATIC DUAL AUDIO MODULATOR ACL TRANSMITTER
UNITS: DECIMAL INCHES	SIZE A; DRAWN BY DEM; CHECKED BY PF; APPROVED BY MW; DWG NO MA5102; REV 2/4
MATERIAL	SCALE; DATE 7/29/96; PART #
DWG NO MA5102-2.DWG	49423.PLT



AUDIO LEVEL ATTENUATION

4	2	1	dB	SW1 POS'N
H	H	H	-3	0
H	H	L	-2	1
H	L	H	-1	2
H	L	L	0	3
L	H	H	+1	4
L	H	L	+2	5
L	L	H	+3	6

PRE-EMPHASIS

OPP	R12	R14	R11	R13	C5
FLAT	100K	0R	N/F	N/F	N/F
50U	75K	0R	510R	0R	680P
75U	91K	560R	510R	0R	820P
J17	360K	5K6	2K1	51K	820P

RF TECHNOLOGY INC.
COMMERCIAL IN CONFIDENCE

TOLERANCES
XX = .01
XXX = .005
XXXX = .0005
ANGLE = .05

UNITS: DECIMAL INCHES

MATERIAL:

FINISH:

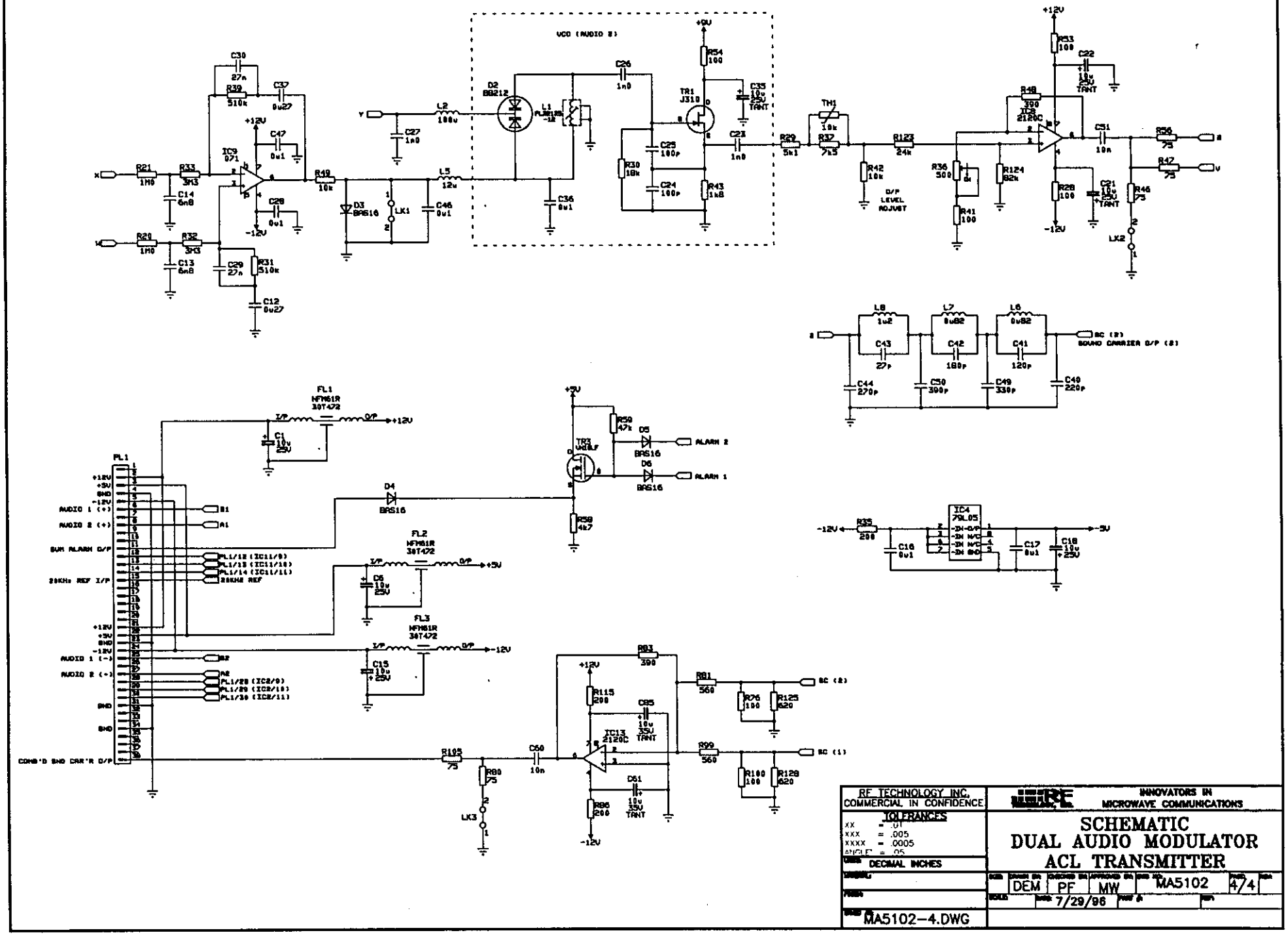
DWG NO: MA5102-3.DWG

INNOVATORS IN MICROWAVE COMMUNICATIONS

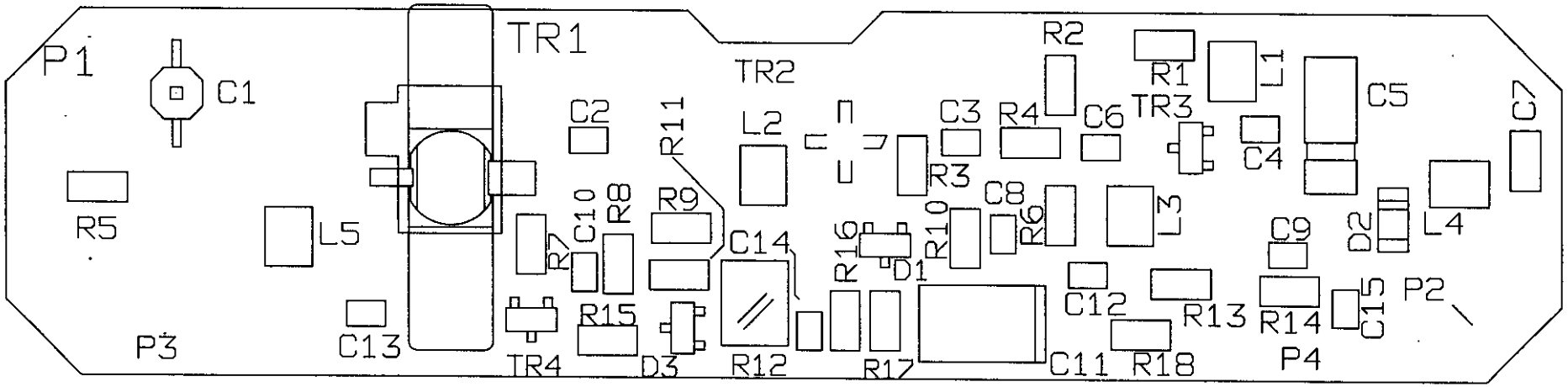
SCHEMATIC
DUAL AUDIO MODULATOR
ACL TRANSMITTER

DRAWN BY	CHECKED BY	APPROVED BY	DWG NO	REV
DEM	PF	MW	MA5102	3/4

SCALE: | DATE: 7/29/96 | SHEET # | DXF: 40423.PLT



RF TECHNOLOGY INC. COMMERCIAL IN CONFIDENCE	INNOVATORS IN MICROWAVE COMMUNICATIONS
TOLERANCES: XX = .01, XXX = .005, XXXX = .0005, ANGLE = .05	SCHEMATIC DUAL AUDIO MODULATOR ACL TRANSMITTER
UNITS: DECIMAL INCHES	DRAWN BY: DEM; CHECKED BY: PF; APPROVED BY: MW; DWG NO: MA5102; SHEET: 4/4; REV:
MATERIAL:	DATE: 7/29/96; PART #:
FINISH:	
DWG: MA5102-4.DWG	



D	ECNS 12845 & 12860	LP	25.1.96
C	ECN 12727	MD	9.8.95
B	DCLS 0710	MD	19.1.95
A	DOTR 1192	PR	17.5.94
ISSUE	ECN No. / REVISION	BY	DATE

TOLERANCES

METRIC		IMPERIAL	
X	+/- 0.4	FRACTIONS	+/- 1/64
X.X	+/- 0.2	X.XX	+/- 0.010
X.XX	+/- 0.1	X.XXX	+/- 0.005
X.XXX	+/- 0.05	X.XXXX	AS STATED
ANGLES	+/- 0.5		

DIMENSIONS IN MM/INS — 3RD ANGLE PROJECTION

DRAWN	DATE	APPRVD	CHKD
P.HETHERINGTON	17.5.94		

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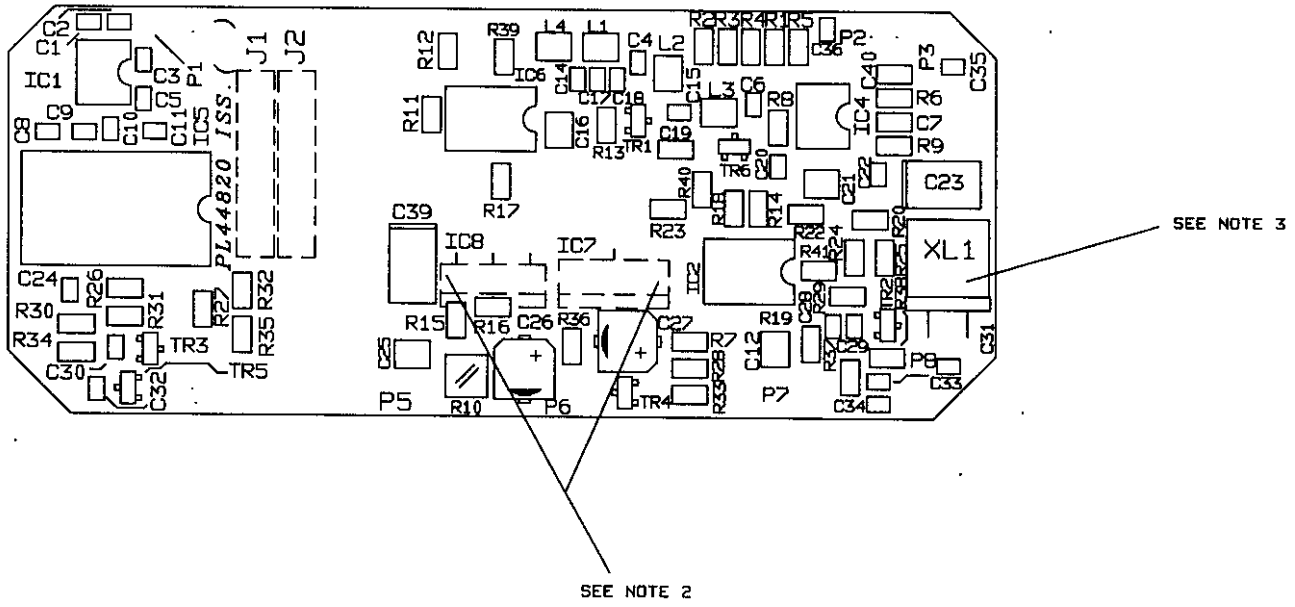
CONTINENTAL MICROWAVE

TITLE: SYNTH VCO PCB ASSEMBLY DRAWING

DRAWING No. D44810 — ISSUE D

SHEET 1 OF 1 SHEETS — A2



SEE NOTE 3

SEE NOTE 2

NOTES:~

1. SOLDER J1 & J2 TO UNDERSIDE OF PCB
2. IC7 & IC8 ARE TO BE FITTED AT NEXT ASSEMBLY LEVEL
3. APPLY SMALL QTY. OF RTV 3145 (IT.320) UNDER XL1.

ISSUE	ECN No. / REVISION	BY	DATE
C	ECN No. 13175	B.C	28.11.96
B	DCLS 0870	MD	10.1.95
A	DOTR 1149	PH	17.5.94

TOLERANCES

METRIC		IMPERIAL	
X	+/- 0.4	FRACTIONS	+/- 1/64
X.X	+/- 0.2	X.XX	+/- 0.010
X.XX	+/- 0.1	X.XXX	+/- 0.005
X.XXX	+/- 0.05	X.XXXX	AS STATED
ANGLES	+/- 0.5		

DIMENSIONS IN MM/INS — 3RD ANGLE PROJECTION

DRAWN P.HETHERINGTON 17.3.94 | DATE | APPRVD | CHKD

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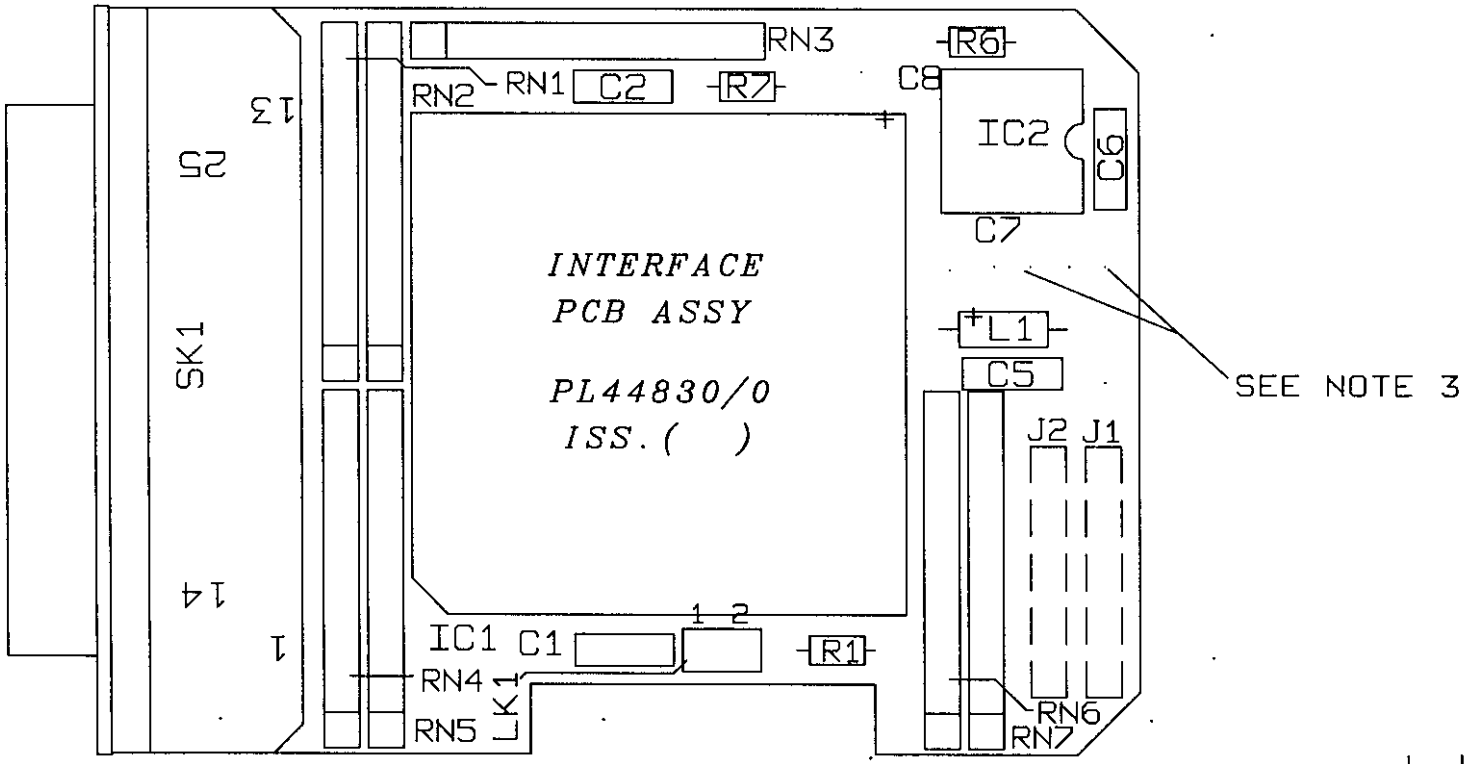
CONTINENTAL MICROWAVE

TITLE: SYNTHESIZER PCB ASSEMBLY DRAWING

DRAWING No. D44820 — ISSUE C

SHEET 1 OF 1 SHEETS — A2



NOTE:~ 1. SOLDER J1 & J2 TO UNDERSIDE OF PCB

2. FIT IC SOCKETS UNDER IC1 & IC2

3. LOOP TIE RAP THROUGH HOLES AND LEAVE LOOSE ON TOP OF BOARD

ISSUE	ECN No. / REVISION	BY	DATE
B	DCLS 0570	MD	19.1.95
A	DOTR 1192	PH	16.5.94

TOLERANCES

METRIC		IMPERIAL	
X	+/- 0.4	FRACTIONS	+/- 1/64
X.X	+/- 0.2	X.XX	+/- 0.010
X.XX	+/- 0.1	X.XXX	+/- 0.005
X.XXX	+/- 0.05	X.XXXX	AS STATED
ANGLES	+/- 0.5		

DIMENSIONS IN MM/INS — 3RD ANGLE PROJECTION

DRAWN	DATE	APPRVD	CHKD
P.HETHERINGTON	16.5.94		

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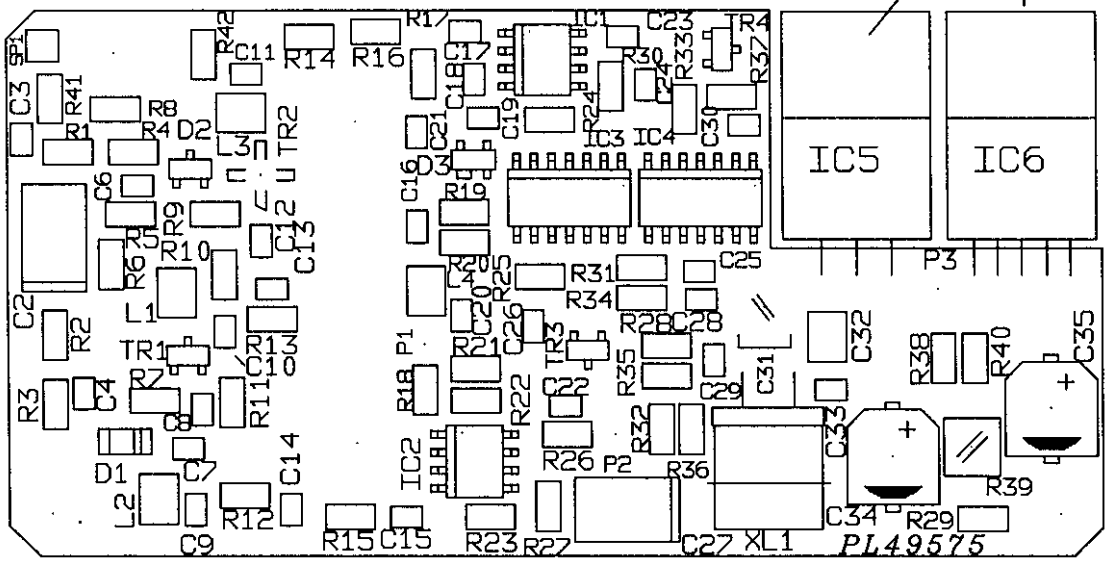
CONTINENTAL MICROWAVE

TITLE: SYNTH INTERFACE PCB ASSEMBLY DRAWING

DRAWING No. D44830 — ISSUE B

SHEET 1 OF 1 SHEETS — A2



ISSUE	ECN No. / REVISION	BY	DATE
C	DCLS No.0866	LJP	30.11.95
B	DCLS No.0781	MD	24.7.95
A	DOTR No.1364	PH	25.8.94

TOLERANCES

METRIC		IMPERIAL	
X	+/- 0.4	FRACTIONS	+/- 1/64
X.X	+/- 0.2	X.XX	+/- 0.010
X.XX	+/- 0.1	X.XXX	+/- 0.005
X.XXX	+/- 0.05	X.XXXX	AS STATED
ANGLES	+/- 0.5		

DIMENSIONS IN MM/INS — 3RD ANGLE PROJECTION

DRAWN	DATE	APPRVD	CHKD
P.HETHERINGTON	25.8.94		

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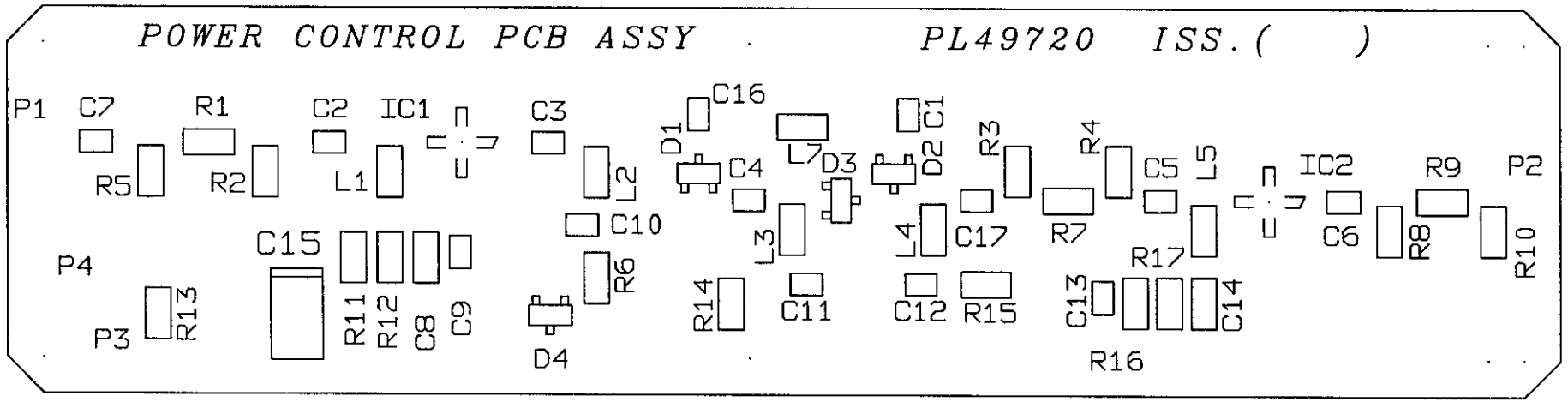
CONTINENTAL MICROWAVE

TITLE: 930MHz PLO PCB ASSEMBLY DRAWING

DRAWING No. D49575 — ISSUE C

SHEET 1 OF 1 SHEETS — A2



ISSUE	ECN No. / REVISION	BY	DATE
B	DCLS 6990	PH	23.5.96
A	DOTR 1398	PH	22.9.94

TOLERANCES

METRIC		IMPERIAL	
X	+/- 0.4	FRACTIONS	+/- 1/64
X.X	+/- 0.2	X.XX	+/- 0.010
X.XX	+/- 0.1	X.XXX	+/- 0.005
X.XXX	+/- 0.05	X.XXXX	AS STATED
ANGLES	+/- 0.5		

DIMENSIONS IN MM/INS — 3RD ANGLE PROJECTION

DRAWN	DATE	APPRVD	CHKD
P.HETHERINGTON	22.9.94		

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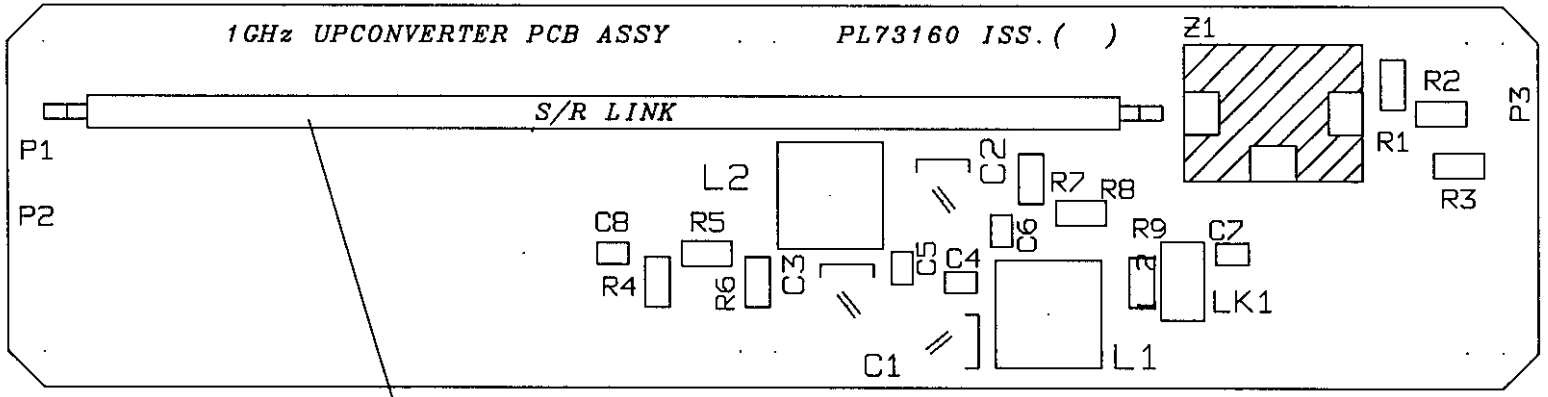
CONTINENTAL MICROWAVE

TITLE: POWER CONTROL PCB ASSEMBLY DRAWING

DRAWING No. D49720 — ISSUE B

SHEET 1 OF 1 SHEETS — A2



FIT S/R CABLE (IT.400) IN EXACT POSITION AS SHOWN

A	DOTR 2225	PH	18.4.96
ISSUE	ECN No. / REVISION	SIG	DATE

TOLERANCES

METRIC		IMPERIAL	
X	+/- 0.4	FRACTIONS	+/- 1/64
X.X	+/- 0.2	X.XX	+/- 0.010
X.XX	+/- 0.1	X.XXX	+/- 0.005
X.XXX	+/- 0.05	X.XXXX	AS STATED
ANGLES	+/- 0.5		

DIMENSIONS IN MM/INS — 3RD ANGLE PROJECTION

DRAWN	DATE	APPVD	CHKD
P.HETHERINGTON	18.4.96		

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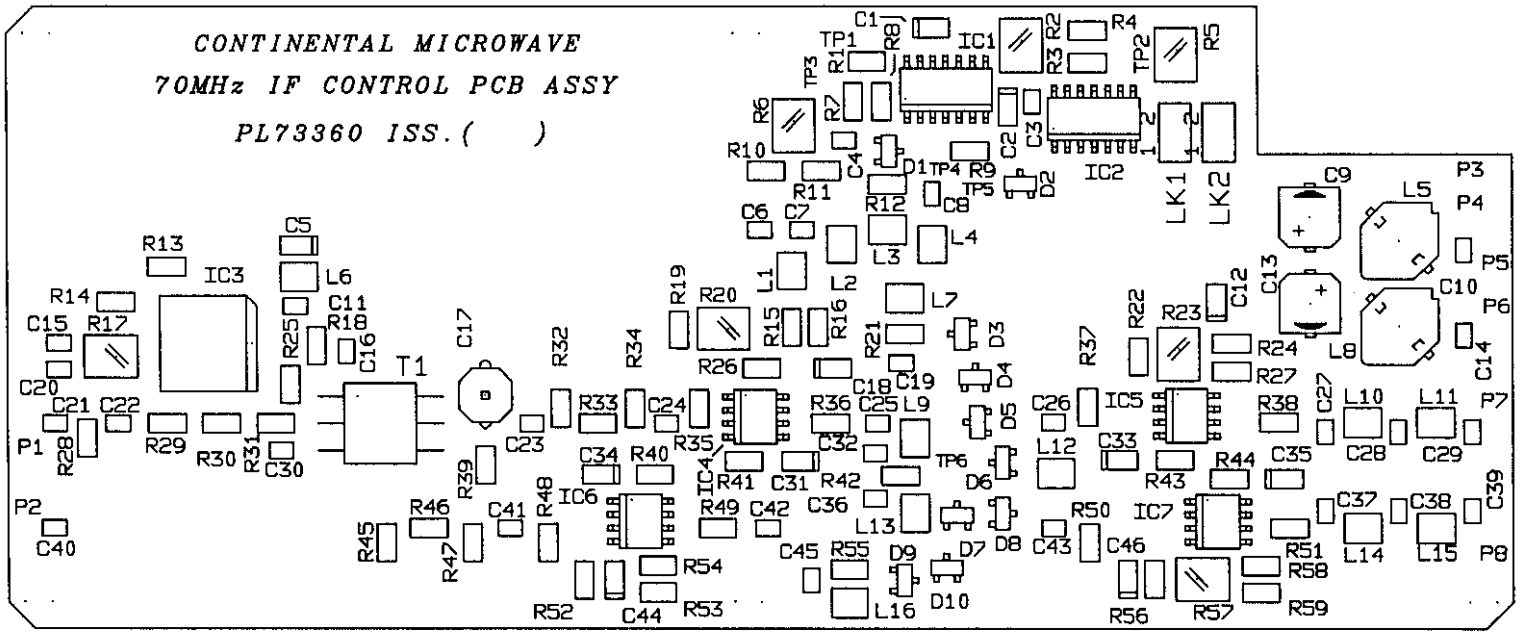
CONTINENTAL MICROWAVE

TITLE 1GHz UPCONVERTER PCB ASSEMBLY DRAWING

DRAWING No.	ISSUE
D73160	A

SHEET 1 OF 1 SHEETS — A2



A	DOTR 2252	PH	24.4.96
ISSUE	ECN No. / REVISION	SIG	DATE

TOLERANCES

METRIC		IMPERIAL	
X	+/- 0.4	FRACTIONS	+/- 1/64
X.X	+/- 0.2	X.XX	+/- 0.010
X.XX	+/- 0.1	X.XXX	+/- 0.005
X.XXX	+/- 0.05	X.XXXX	AS STATED
ANGLES	+/- 0.5		

DIMENSIONS IN MM/INS — 3RD ANGLE PROJECTION

DRAWN | DATE | APPRVD | CHKD

P.HETHERINGTON 24.4.96

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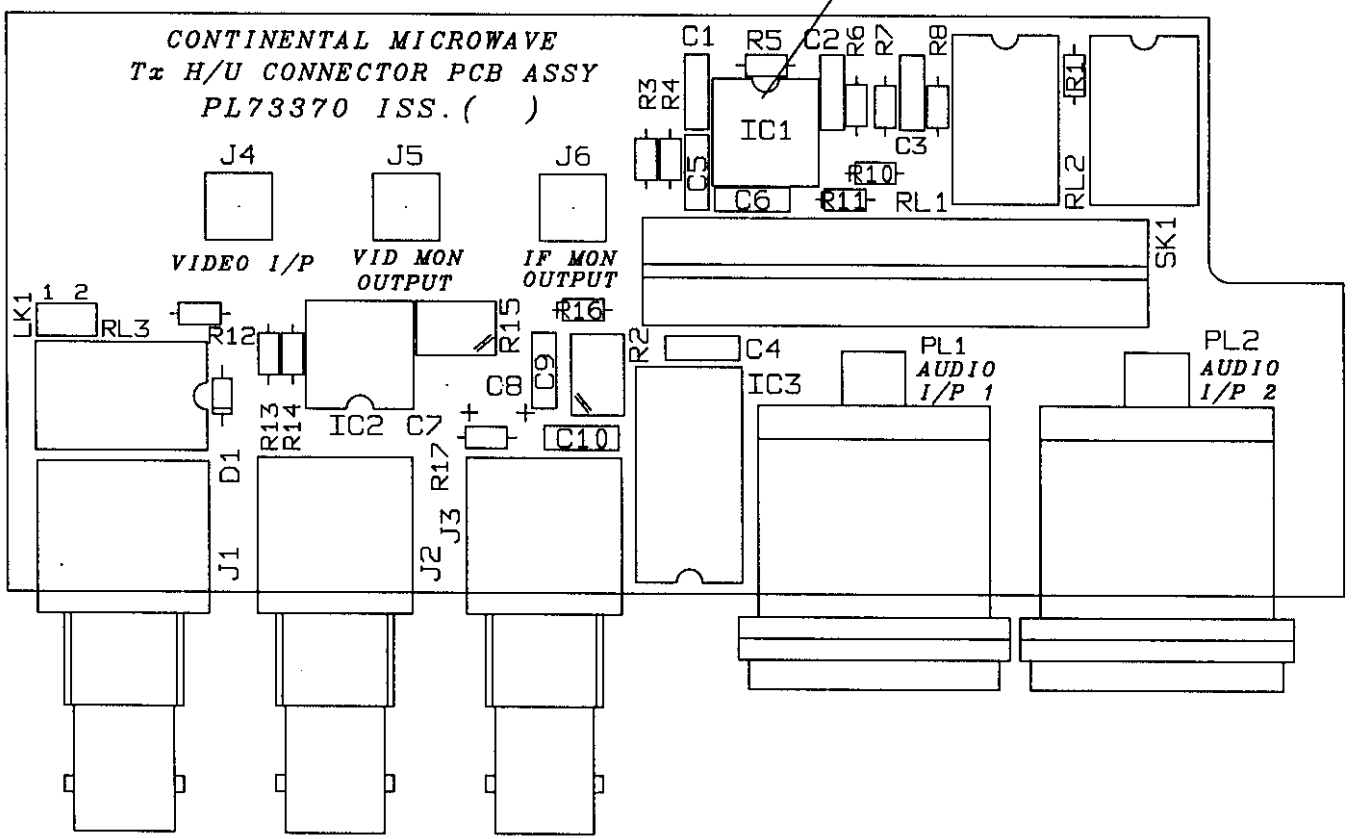
CONTINENTAL MICROWAVE

TITLE 70MHz IF CONTROL PCB ASSEMBLY DRAWING

DRAWING No. D73360 ISSUE A

SHEET 1 OF 1 SHEETS A2

FIT IC SOCKETS UNDER ALL IC's



ISSUE	ECN No. / REVISION	SIG	DATE
B	DCLS 1	PH	11.7.96
A	DDTR 2285	PH	21.5.96

TOLERANCES

METRIC		IMPERIAL	
X	+/- 0.4	FRACTIONS	+/- 1/64
X.X	+/- 0.2	X.XX	+/- 0.010
X.XX	+/- 0.1	X.XXX	+/- 0.005
X.XXX	+/- 0.05	X.XXXX	AS STATED
ANGLES	+/- 0.5		

DIMENSIONS IN MM/INS — 3RD ANGLE PROJECTION

DRAWN	DATE	APPRVD	CHKD
P.HETHERINGTON	21.5.96		

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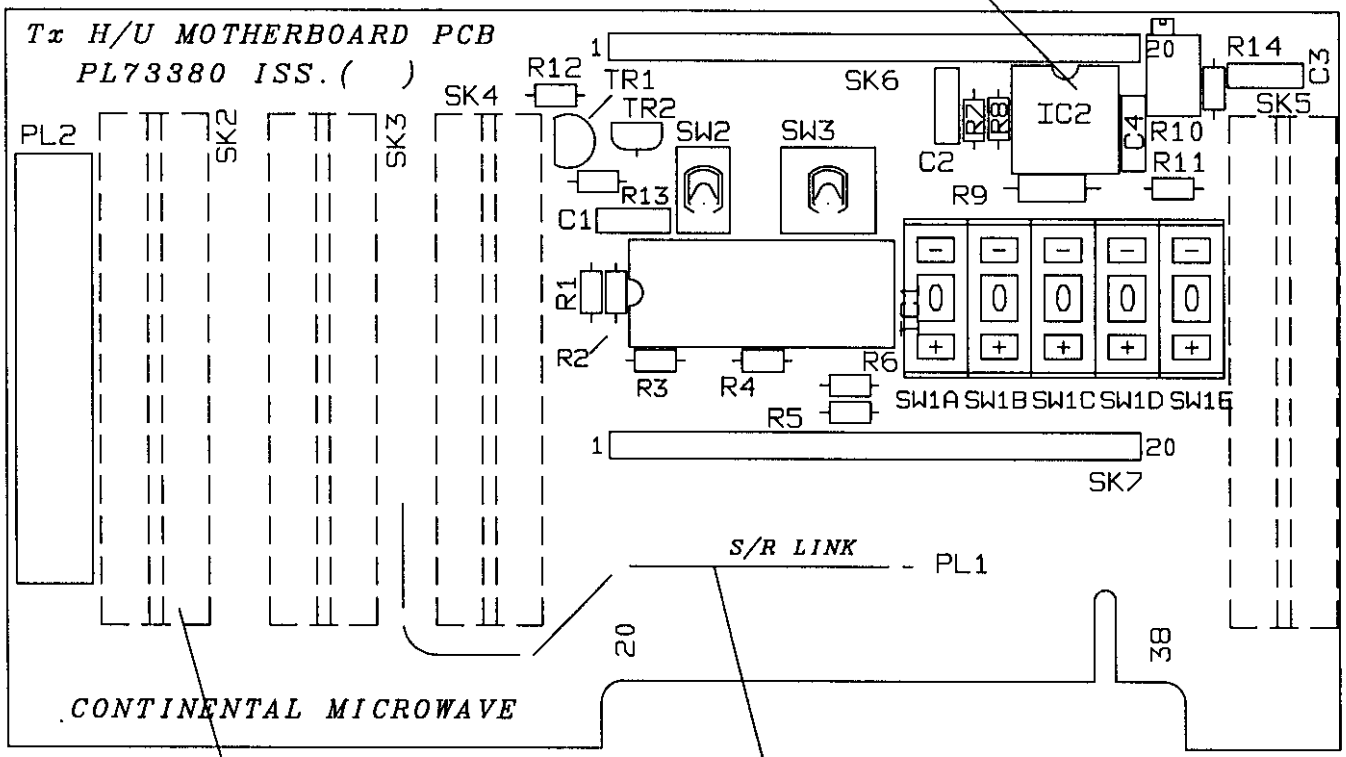
CONTINENTAL MICROWAVE

TITLE: Tx H/U CONNECTOR PCB ASSEMBLY DRAWING

DRAWING No. D73370 — ISSUE B

SHEET 1 OF 1 SHEETS — A2

FIT IC SOCKETS UNDER ALL IC's



SOLDER SK2-SK5 TO UNDERSIDE OF PCB
(FIT POLARIZING KEYS IN POSNS 18-37)

SOLDER S/R CABLE IN EXACT
POSITION AS SHOWN ON COMPT SIDE

ISSUE	ECN No. / REVISION	STB	DATE
B	DCLS 1003	PH	12.7.96
A	DOTR 2270	PH	21.5.96

TOLERANCES

METRIC		IMPERIAL	
X	+/- 0.4	FRACTIONS	+/- 1/64
X.X	+/- 0.2	X.XX	+/- 0.010
X.XX	+/- 0.1	X.XXX	+/- 0.005
X.XXX	+/- 0.05	X.XXXX	AS STATED
ANGLES	+/- 0.5		

DIMENSIONS IN MM/INS — 3RD ANGLE PROJECTION

DRAWN	DATE	APPRVD	CHKD
P.HETHERINGTON	21.5.96		

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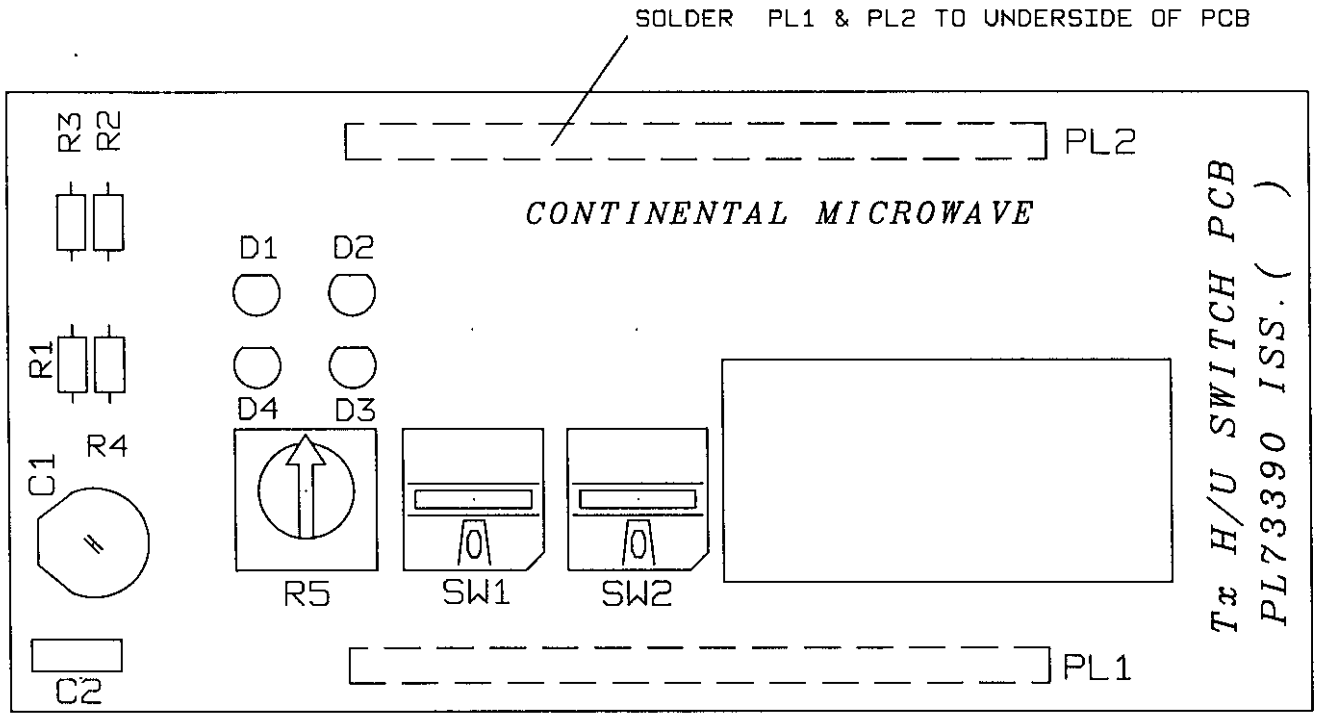
CONTINENTAL MICROWAVE

TITLE Tx H/U MOTHERBOARD PCB ASSEMBLY DRAWING

DRAWING No.	ISSUE
D73380	B

SHEET 1 OF 1 SHEETS — A2



ISSUE	ECN No. / REVISION	BY	DATE
B	DCLS	PH	31.7.96
A	DDTR 2273	PH	22.5.96

TOLERANCES

METRIC		IMPERIAL	
X	+/- 0.4	FRACTIONS	+/- 1/64
X.X	+/- 0.2	X.XX	+/- 0.010
X.XX	+/- 0.1	X.XXX	+/- 0.005
X.XXX	+/- 0.05	X.XXXX	AS STATED
ANGLES	+/- 0.5		

DIMENSIONS IN MM/INS — 3RD ANGLE PROJECTION

DRAWN	DATE	APPRVD	CHKD
P.HETHERINGTON	22.5.96		

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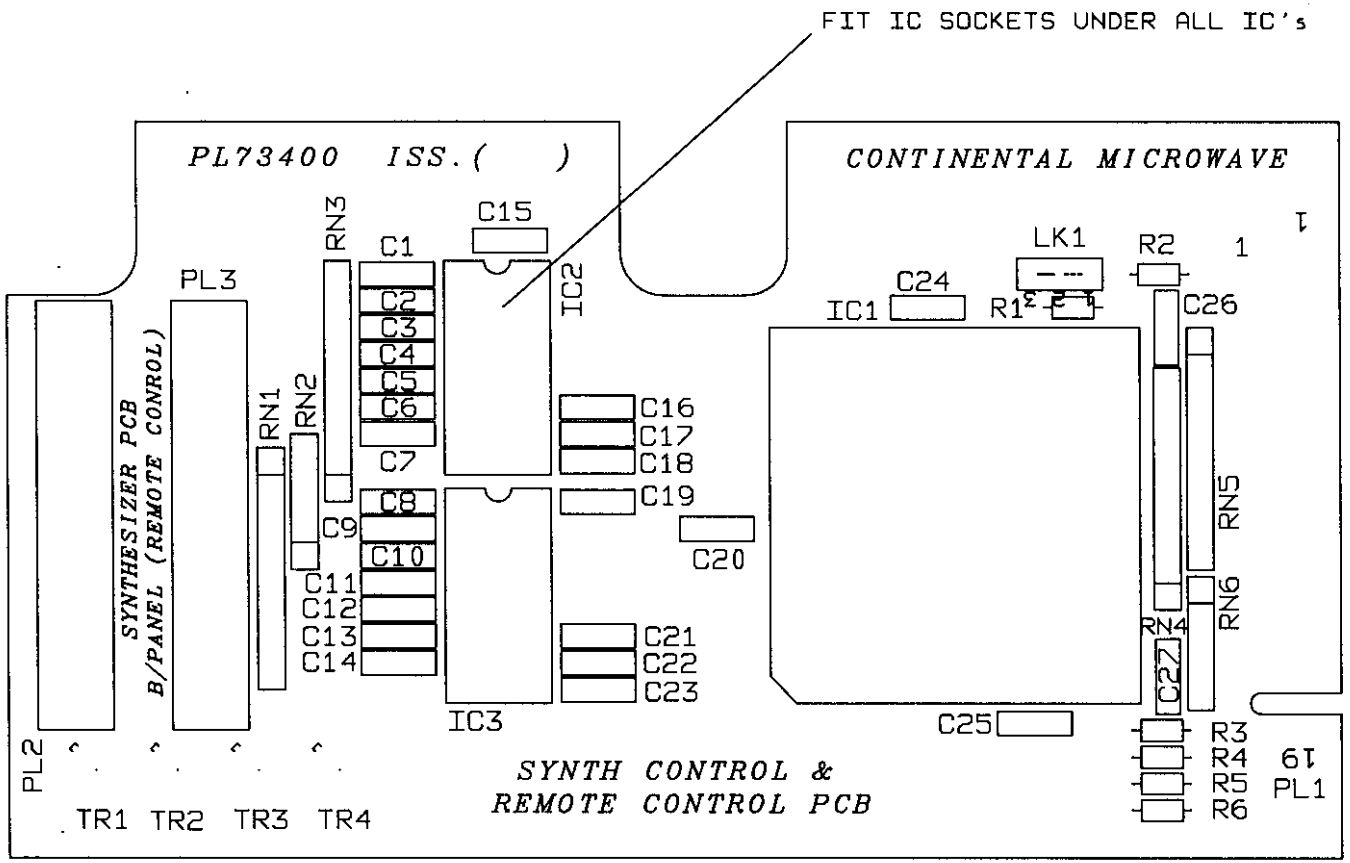
CONTINENTAL MICROWAVE

TITLE Tx H/U SWITCH PCB ASSEMBLY DRAWING

DRAWING No. D73390 — ISSUE B

SHEET 1 OF 1 SHEETS — A2



ISSUE	ECN No. / REVISION	BY	DATE
B	DCLS 1016	PH	1.8.96
A	DDTR 2272	PH	21.5.96

TOLERANCES

METRIC		IMPERIAL	
X	+/- 0.4	FRACTIONS	+/- 1/64
X.X	+/- 0.2	X.XX	+/- 0.010
X.XX	+/- 0.1	X.XXX	+/- 0.005
X.XXX	+/- 0.05	X.XXXX	AS STATED
ANGLES	+/- 0.5		

DIMENSIONS IN MM/INS — 3RD ANGLE PROJECTION

DRAWN	DATE	APPRVD	CHKD
P.HETHERINGTON	21.5.96		

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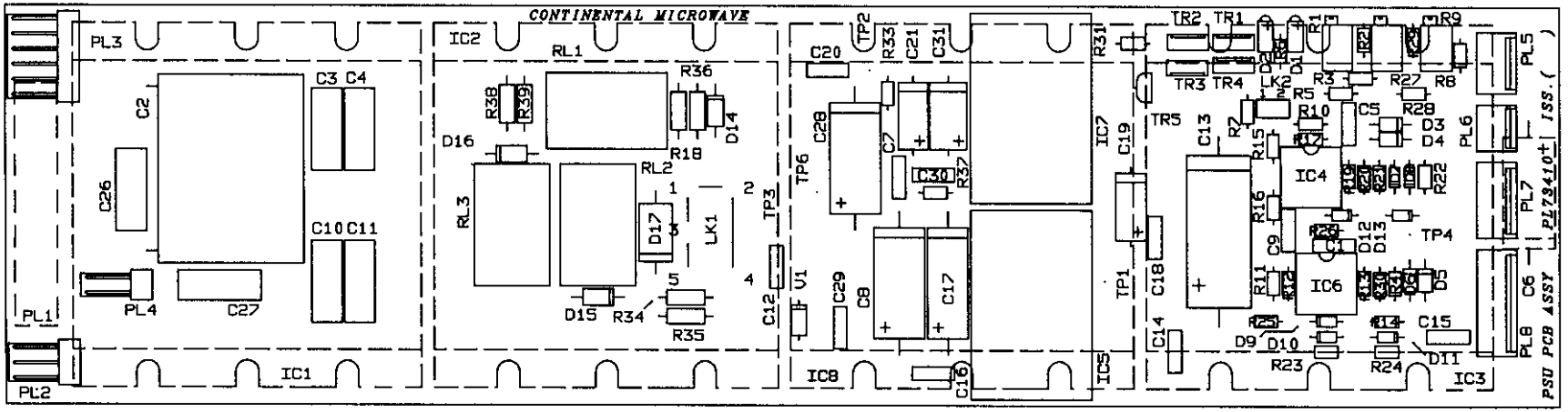
CONTINENTAL MICROWAVE

TITLE: SYNTH & REM CONTROL PCB ASSEMBLY DRAWING

DRAWING No. D73400 — ISSUE B

SHEET 1 OF 1 SHEETS — A2



NOTES:~ 1. SOLDER PL1,IC1,IC2,IC3,IC8 & C6 TO UNDERSIDE OF PCB

ISSUE	ECN No. / REVISION	BY	DATE
C	DCLS 1061	PH	18.11.96
B	DCLS 1001	PH	4.7.96
A	DOTR 2255	PH	25.4.96

TOLERANCES

METRIC		IMPERIAL	
X	+/- 0.4	FRACTIONS	+/- 1/64
X.X	+/- 0.2	X.XX	+/- 0.010
X.XX	+/- 0.1	X.XXX	+/- 0.005
X.XXX	+/- 0.05	X.XXXX	AS STATED
ANGLES	+/- 0.5		

DIMENSIONS IN MM/INS — 3RD ANGLE PROJECTION

DRAWN	DATE	APPRVD	CHKD
P.HETHERINGTON	25.4.96		

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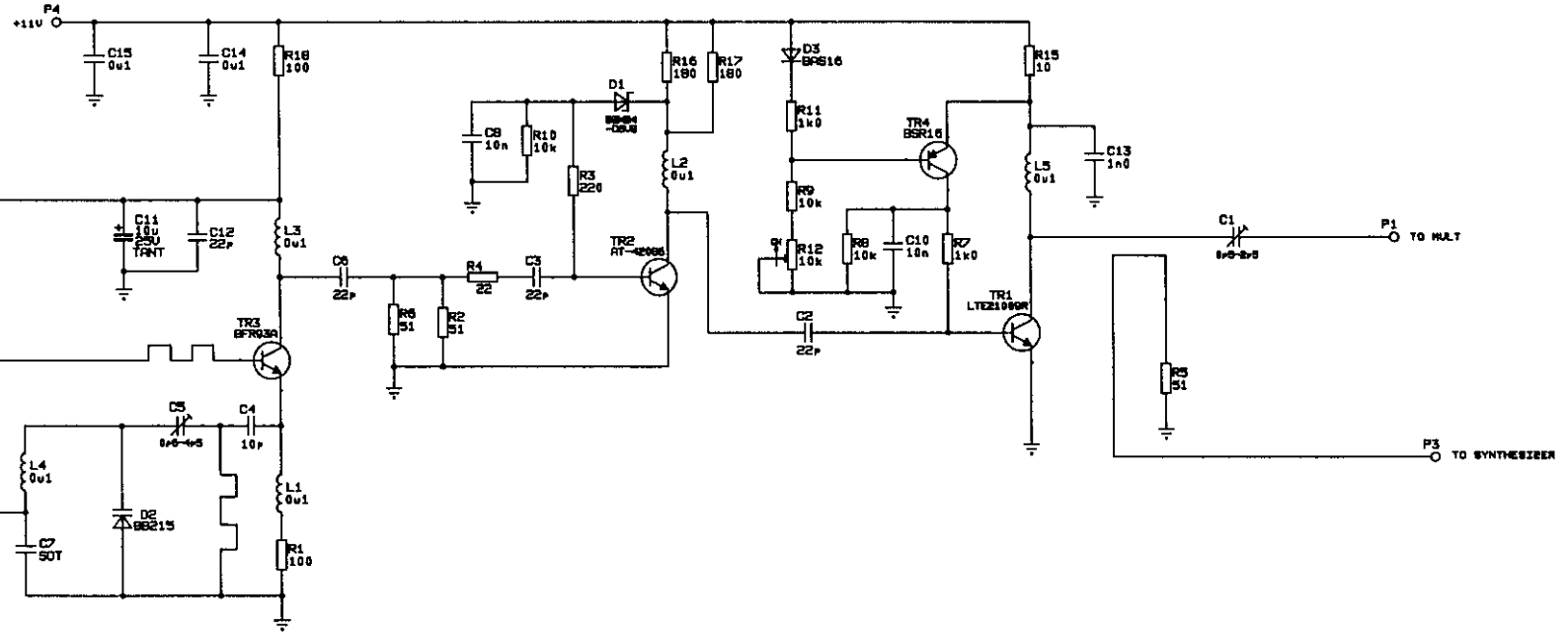
CONTINENTAL MICROWAVE

TITLE (SVL) PSU PCB ASSEMBLY DRAWING

DRAWING No. D73410 — ISSUE B

SHEET 1 OF 1 SHEETS — A2



C	ECN No.s 13848 & 13884	P.M	30.1.96
B	CHANGE DETAIL	P.M	10.1.96
A	ORIGINAL ISSUE	P.M	30.1.95
ISSUE	ENG No. / REVISION	BY	DATE

DRAWN P.METHERINGTON 26.1.94 | DATE | APPROVED | DATE

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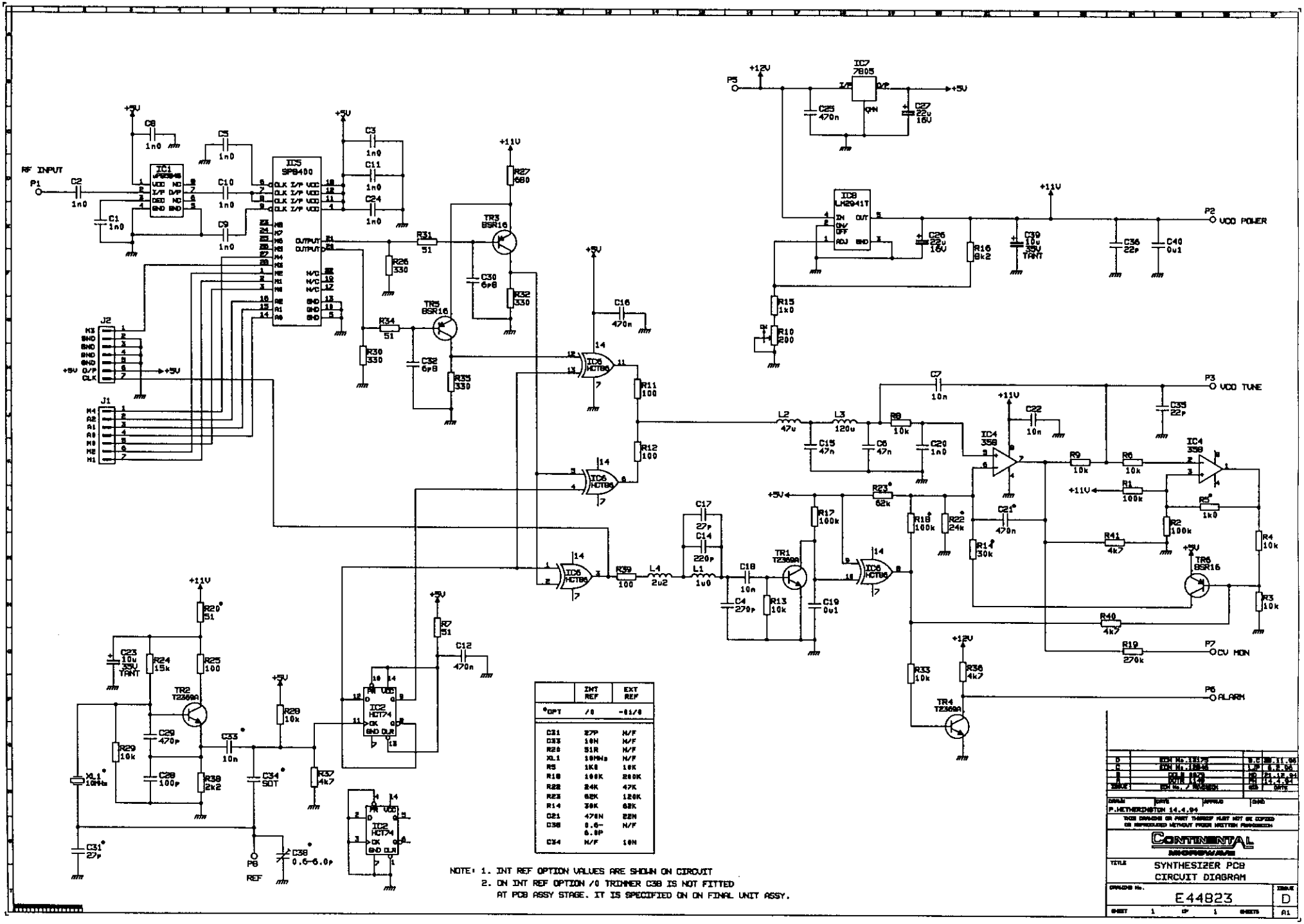
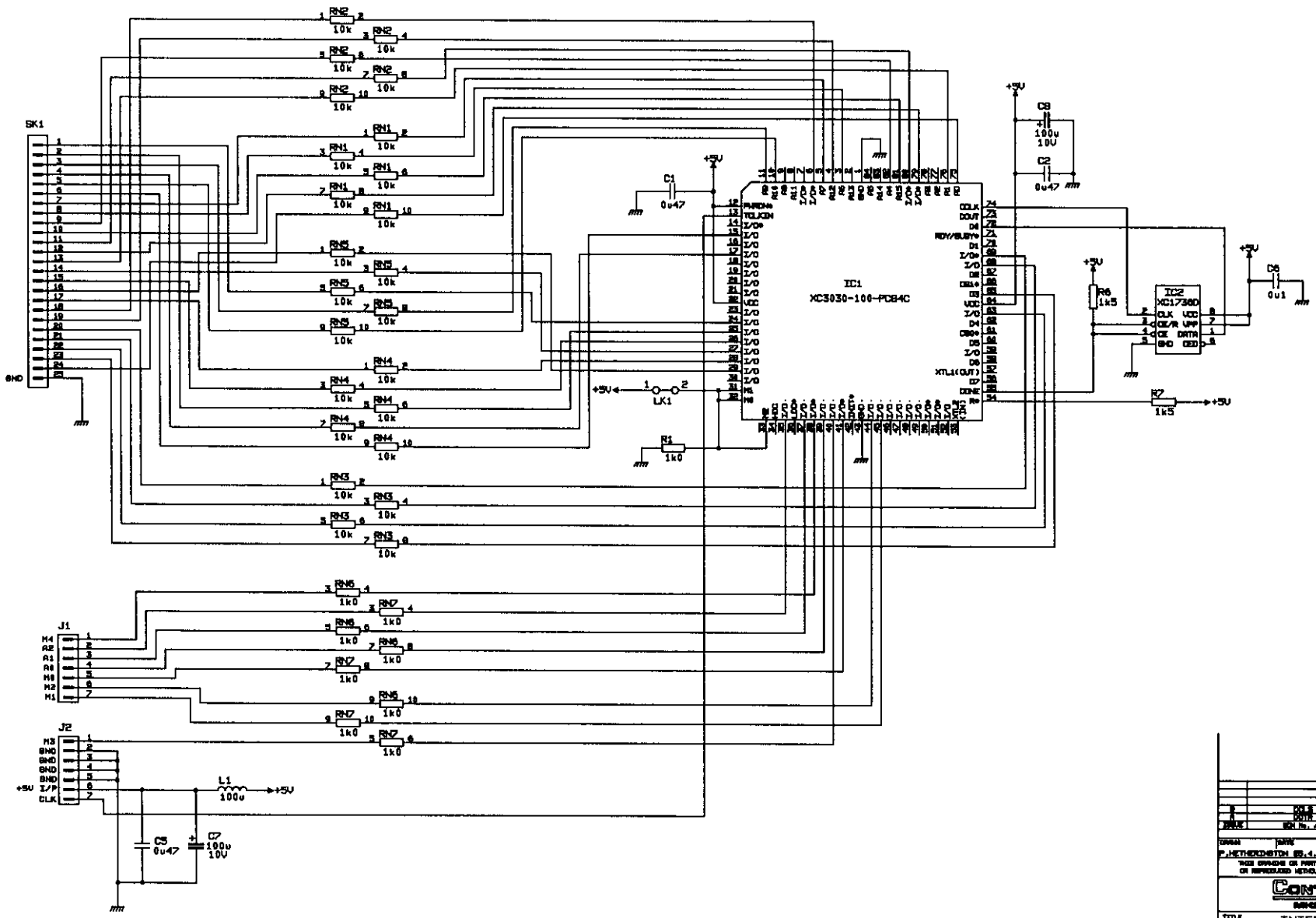
CONTINENTAL MICROWAVE

TITLE: VCO PCB CIRCUIT DIAGRAM

DRAWING No. E44813 | ISSUE C

SHEET 1 OF 1 | SIZE A1


RF INPUT
P1
P2 VCO POWER
P3 VCO TUNE
P5
P6 ALARM
P7 CV MON
P8 REF
+5V
+11V
+12V
IC1 UPB2546
IC2 HCT74
IC3 SP8400
IC4 358
IC5 HCT86
IC6 HCT86
IC7 7805
IC8 LM2941T
TR1 T2369A
TR2 T2369A
TR3 BSR16
TR4 T2369A
TR5 BSR16
TR6 BSR16
J1
J2
XL1 10MHz
C1 1n0
C2 1n0
C3 1n0
C5 1n0
C6 1n0
C7 10n
C8 1n0
C9 1n0
C10 1n0
C11 1n0
C12 470n
C13 27p
C14 220p
C15 47n
C16 470n
C17 27p
C18 10n
C19 0u1
C20 1n0
C21* 470n
C22 10n
C23 10u 35V TANT
C24 1n0
C25 470n
C26 22u 16V
C27 22u 16V
C28 100p
C29 470p
C30 6p8
C31* 27p
C32 6p8
C33* 10n
C34* SOT
C35 22p
C36 22p
C38* 0.6-6.0p
C39 10u 35V TANT
C40 0u1
L1 1u0
L2 47u
L3 120u
L4 2u2
R1 100k
R2 100k
R3 10k
R4 10k
R5* 1k0
R6 10k
R7 51
R8 10k
R9 10k
R10 200
R11 100
R12 100
R13 10k
R14 30k
R15 1k0
R16 8k2
R17 100k
R18* 100k
R19 270k
R20* 51
R22* 24k
R23* 62k
R24 15k
R25 100
R26 330
R27 680
R28 10k
R29 10k
R30 330
R31 51
R32 330
R33 10k
R34 51
R35 330
R36 4k7
R37 4k7
R38 2k2
R39 100
R40 4k7
R41 4k7
	INT REF	EXT REF
*OPT	/0	-01/0
C31	27P	N/F
C33	10N	N/F
R20	51R	N/F
XL1	10MHz	N/F
R5	1K0	10K
R18	100K	200K
R22	24K	47K
R23	62K	120K
R14	30K	62K
C21	470N	22N
C38	0.6-6.0P	N/F
C34	N/F	10N
NOTE: 1. INT REF OPTION VALUES ARE SHOWN ON CIRCUIT
2. ON INT REF OPTION /0 TRIMMER C38 IS NOT FITTED AT PCB ASSY STAGE. IT IS SPECIFIED ON ON FINAL UNIT ASSY.
P.METHERINGTON 14.4.94
CONTINENTAL MICROWAVE
SYNTHESIZER PCB CIRCUIT DIAGRAM
E44823
D
A1



B	COLOUR [A/R]	P.O.	14.1.93
A	DRAWN [INIT]	P.O.	08.11.93
ISSUE	SCH No. / REVISION	CHD	DATE

DRAWN | DATE | APPROVED | CHKD

P.HETHERINGTON 05.4.94

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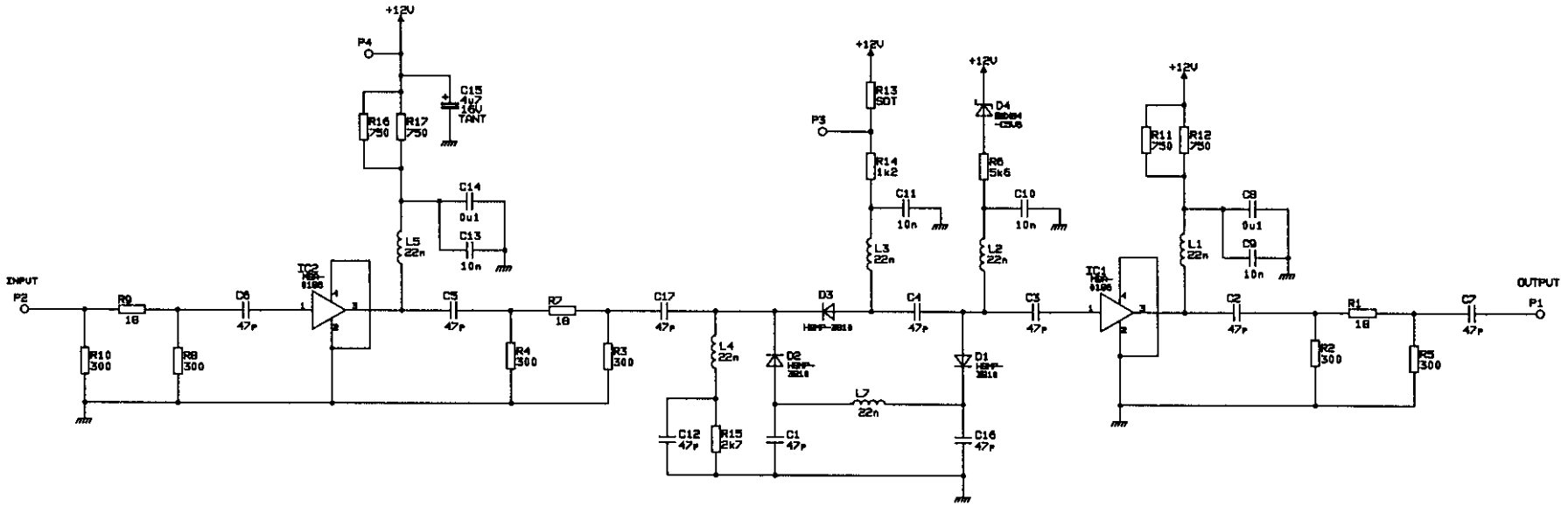
CONTINENTAL

TITLE: INTERFACE PCB CIRCUIT DIAGRAM

DRAWING No.: E44833

ISSUE: B

SHEET 1 OF 1 SHEETS | A1



B	DCLE [illegible]	PH	22.6.94
A	DCMR [illegible]	PH	21.6.94
ISSUE	REM No. / REVISION	ASH	DATE

DRAWN P.HETHERINGTON 21.6.94 | DATE | APPROVED | CHKD

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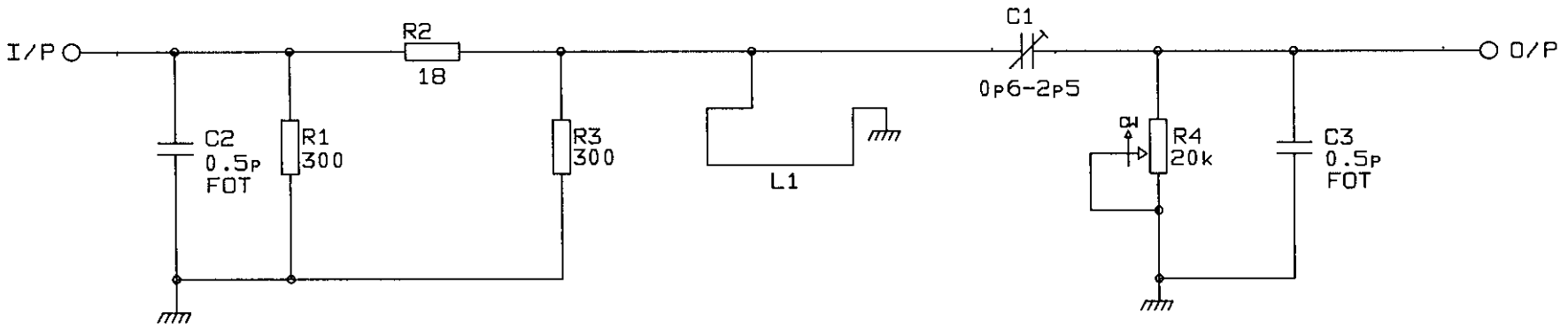
CONTINENTAL [illegible]

TITLE: POWER CONTROL PCB CIRCUIT DIAGRAM

DRAWING No. E49723 | ISSUE B

SHEET 1 OF 1 SHEETS | A1



COMPONENTS C2 & C3 ARE TO BE FITTED ON TEST

ISSUE	ECN No. / REVISION	SIG	DATE
A	DOTR 2046	M.D	9.1.96

DRAWN	DATE	APPRVD	CHKD
M.D	9.1.96		

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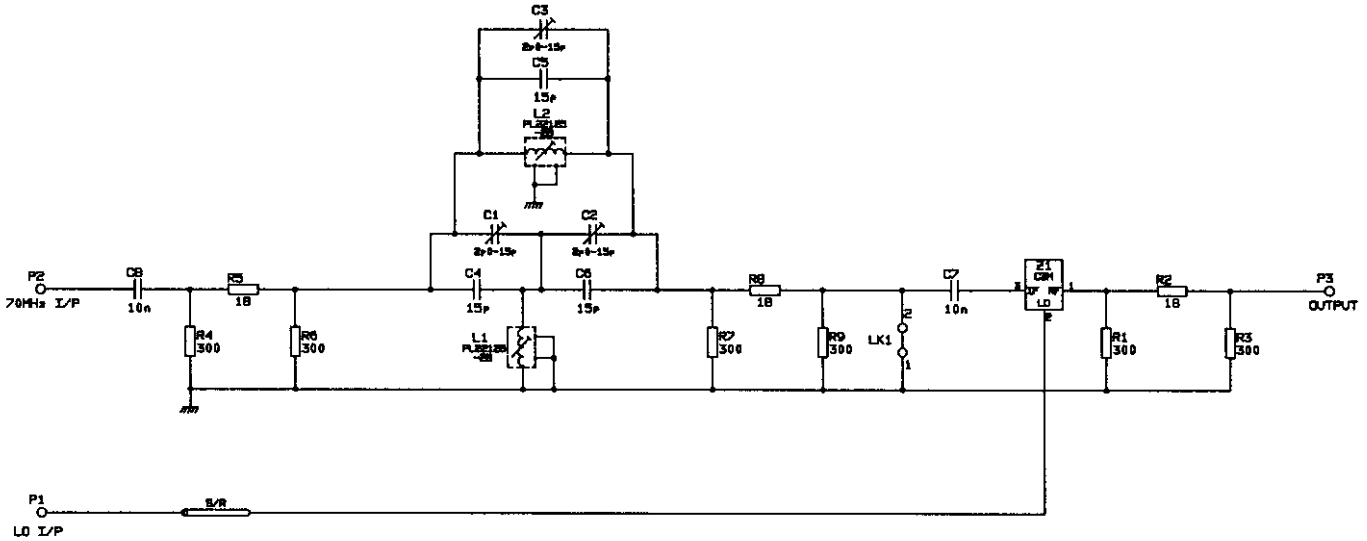
CONTINENTAL MICROWAVE

TITLE: DIODE MATCHING PCB 7GHz CIRCUIT DIAGRAM

DRAWING No.	ISSUE
E49897	A

SHEET 1 OF 1 SHEETS — A3



A	ISSUE A	PH	18.4.96
DRAWN	DATE	APPROVED	DATE

P.METHERINGTON 18.4.96
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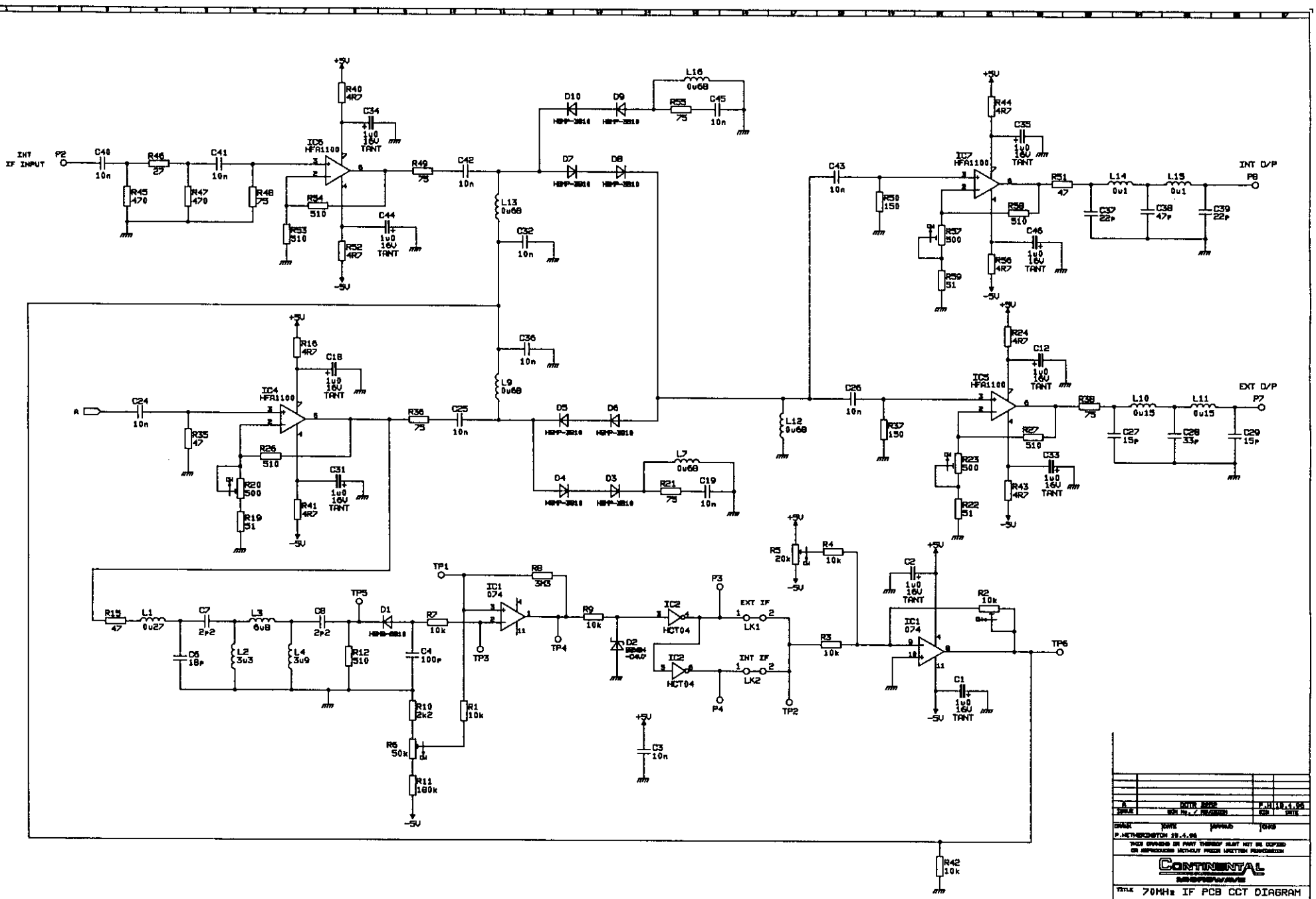
CONTINENTAL MICROWAVE

TITLE: 1GHz UPCONVERTER PCB CIRCUIT DIAGRAM

DRAWING No. E73163 ISSUE A

SHEET 1 OF 1 SIZE A1



A	INITIAL RELEASE	P.H	18.4.96
ISSUE	ECN No. / REVISION	CHD	DATE
DRAWN P.HETHERINGTON 18.4.96	DATE	APPROVED	CHD

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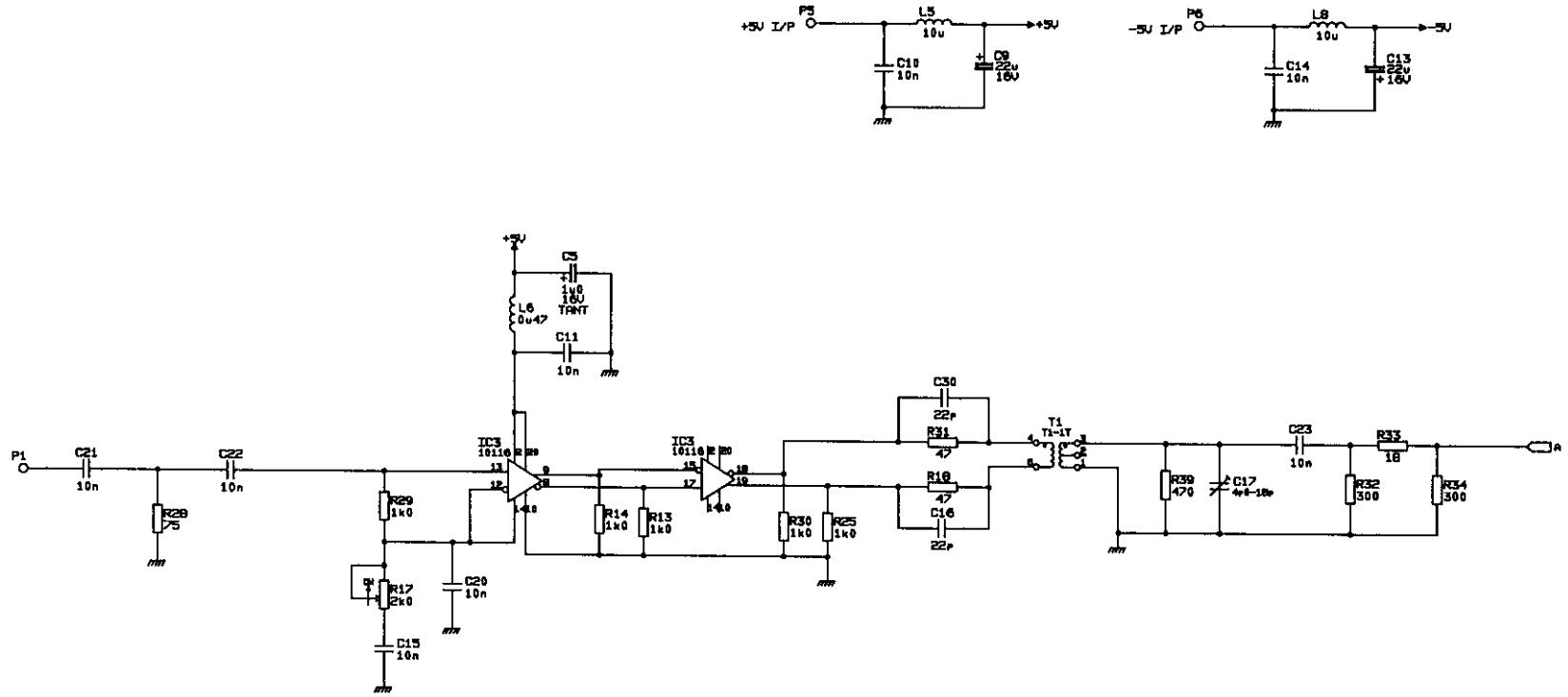
CONTINENTAL MICROWAVE

TITLE 70MHz IF PCB CCT DIAGRAM (CONTROL & MONITORING)

DRAWING No. E73363 ISSUE A

SHEET 1 OF 2 SHEETS A1



ISSUE	ECN No. / REVISION	BY	DATE
DRAWN P.HETHERINGTON 19.4.99	DATE	APPROVED	CHKD

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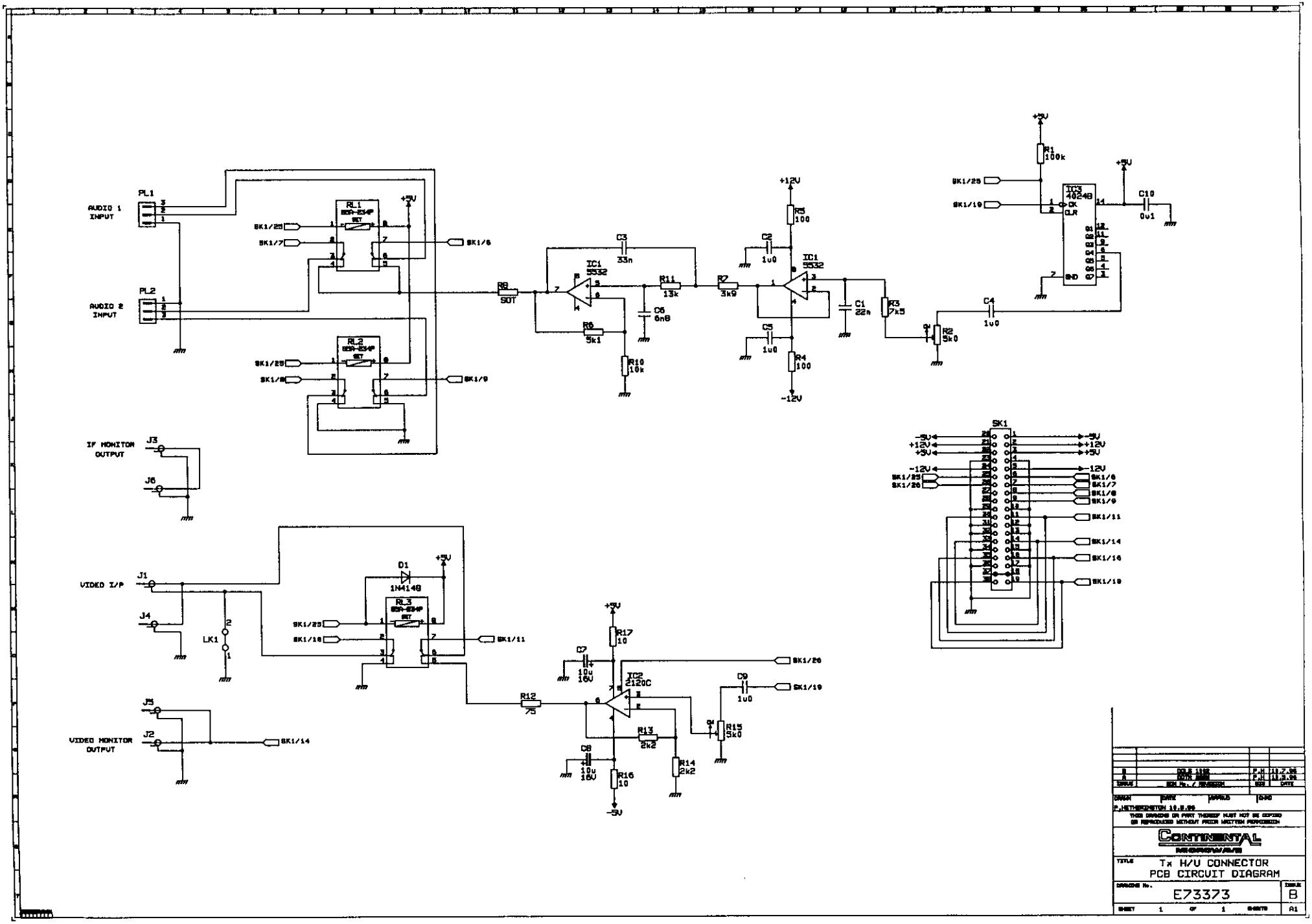
CONTINENTAL MICROWAVE

TITLE 70MHz IF PCB CCT DIAGRAM (CONTROL & MONITORING)

DRAWING No. E73363 ISSUE A

SHEET 2 OF 2 SHEETS A1


AUDIO 1 INPUT
AUDIO 2 INPUT
IF MONITOR OUTPUT
VIDEO I/P
VIDEO MONITOR OUTPUT
PL1
PL2
J1
J2
J3
J4
J5
J6
LK1
RL1
RL2
RL3
D1
1N4148
IC1
5532
IC2
2120C
IC3
4024B
SK1
R1 100k
R2 5k0
R3 7k5
R4 100
R5 100
R6 5k1
R7 3k9
R8 90T
R10 10k
R11 13k
R12 75
R13 2k2
R14 2k2
R15 5k0
R16 10
R17 10
C1 22n
C2 1u0
C3 33n
C4 1u0
C5 1u0
C6 6n8
C7 10u 16V
C8 10u 16V
C9 1u0
C10 0u1
+5V
+12V
-12V
-5V
SK1/6
SK1/7
SK1/8
SK1/9
SK1/11
SK1/14
SK1/16
SK1/19
SK1/25
SK1/26
CONTINENTAL
TITLE
Tx H/V CONNECTOR
PCB CIRCUIT DIAGRAM
E73373
B
A1