



Raymarine Limited

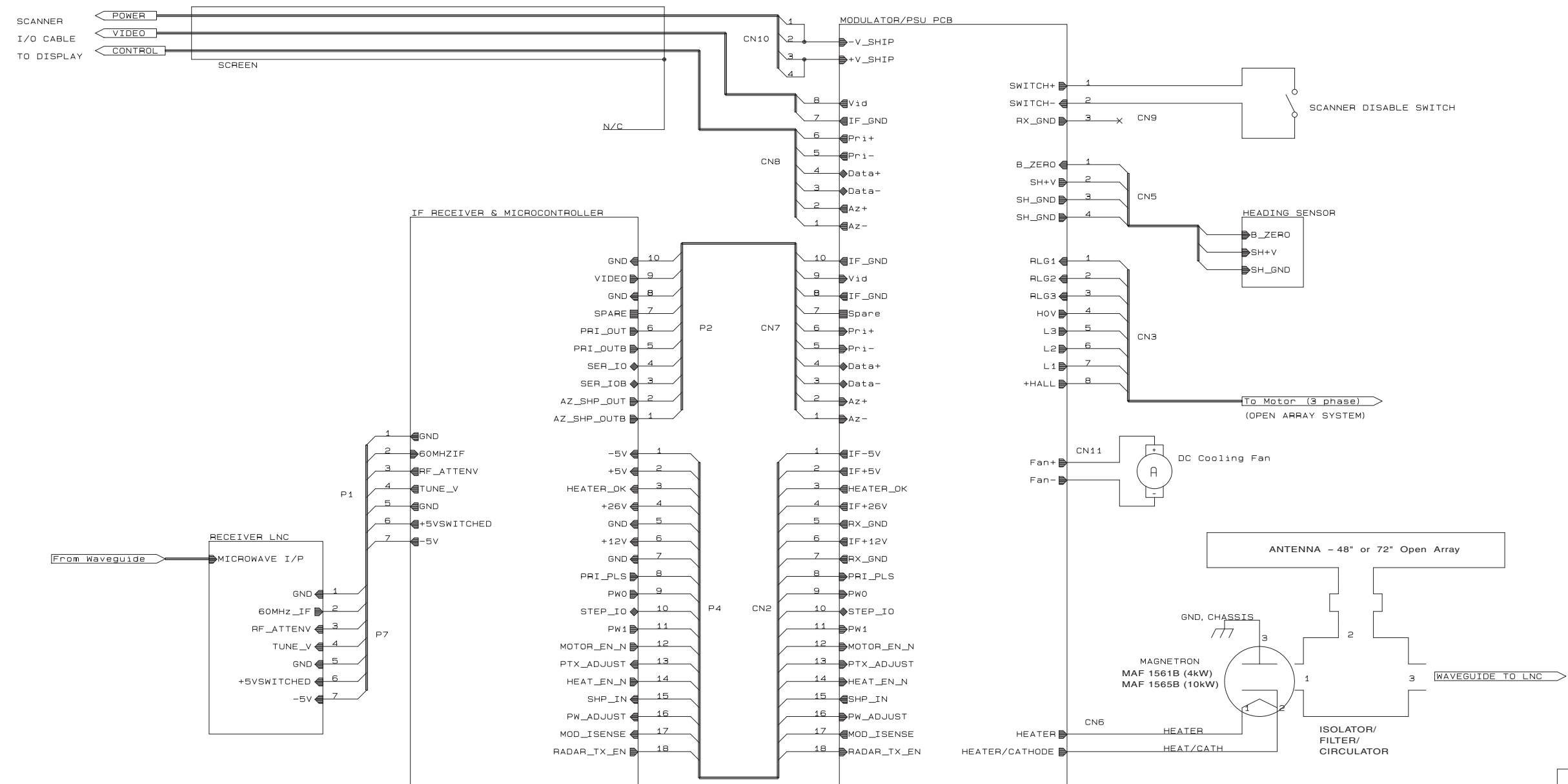
10kW Open Array Radar

FCC ID: PJ5MTX9-S3

Schematics

Index

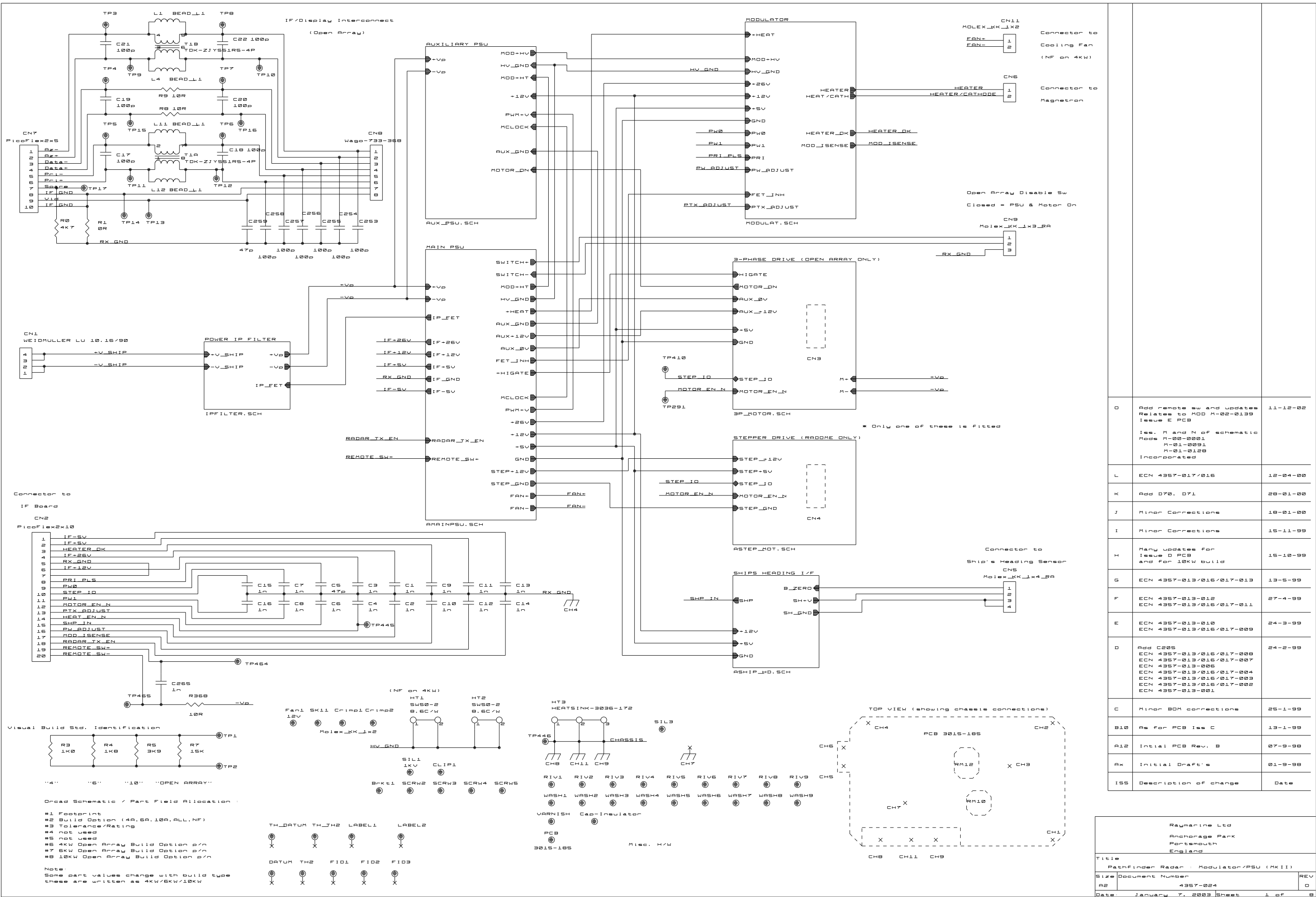
Scanner Interconnect	4357-033	Sht. 1	
Modulator/PSU	4357-024	Sht. 1	Modulator/PSU (Top Level)
		Sht. 2	Power I/P Filter
		Sht. 3	Ship's Heading Interface
		Sht. 4	Stepper Motor (not fitted)
		Sht. 5	3 Phase DC Brushless Motor Drive
		Sht. 6	Auxiliary PSU
		Sht. 7	Modulator
		Sht. 8	Main PSU
Low Noise Converter (LNC)	4346-028	Sht. 1	
IF Receiver	4437-004	Sht. 1	IF Receiver (Top Level)
		Sht. 2	IF Strips
		Sht. 3	IF Log Det/Video
		Sht. 4	Scanner Micro
		Sht. 5	Control Interface
		Sht. 6	STC Generator



TOP-LEVEL OPEN ARRAY SCANNER INTERCONNECT

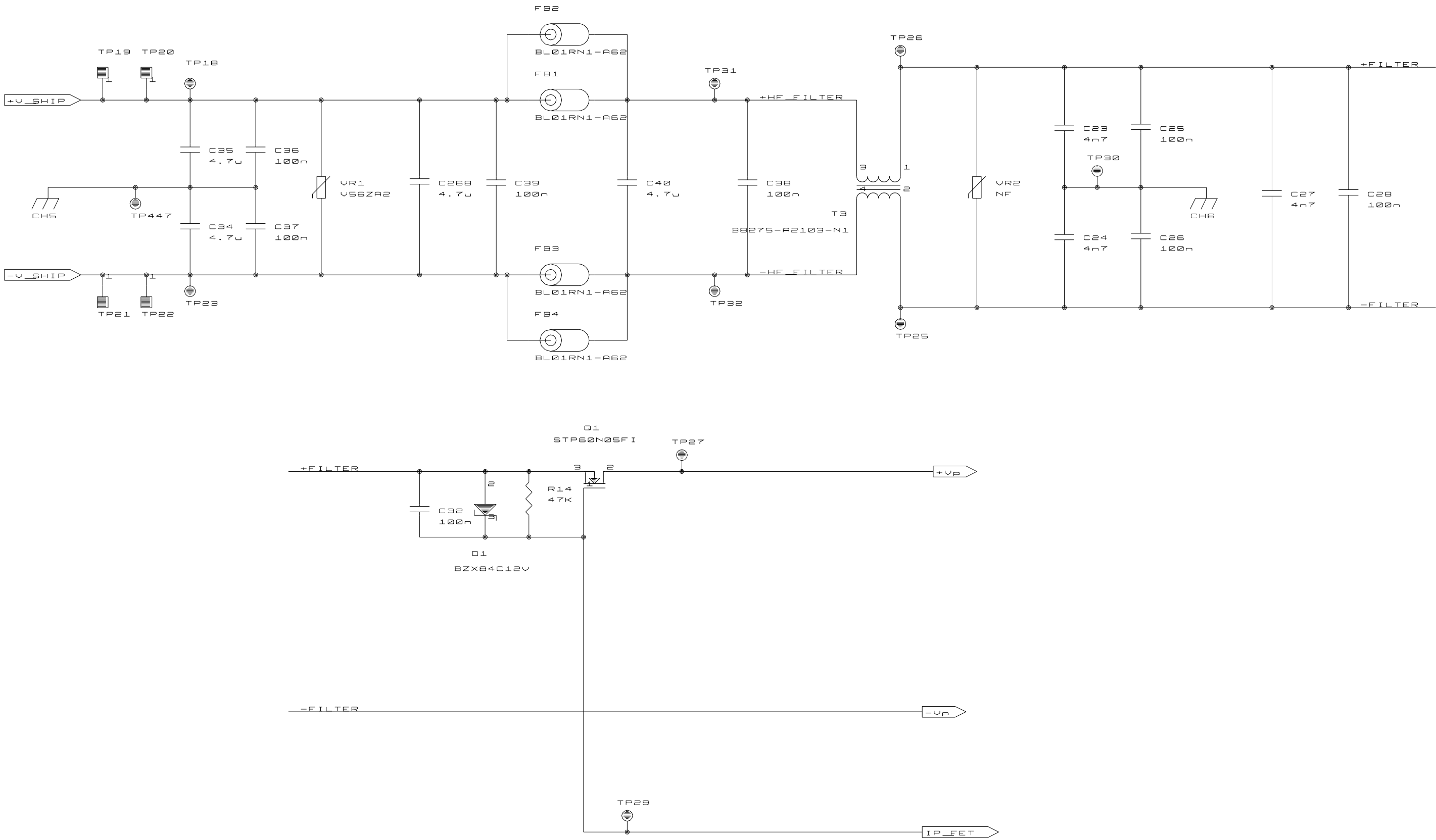
C	Scanner compliance	1-10-02
B	Update for 10kW Open Array	8-12-99
A	Original Issue	12-5-99
ISS	Description of Change	Date

Raytheon Marine Europe Anchorage Park Portsmouth Hants. PO3 5TD England		
Title Pathfinder Open Array Scanner Interconnect		
Size Document Number		REV
A2	4357-033	B
Date: December 8, 1999 Sheet 1 of 1		

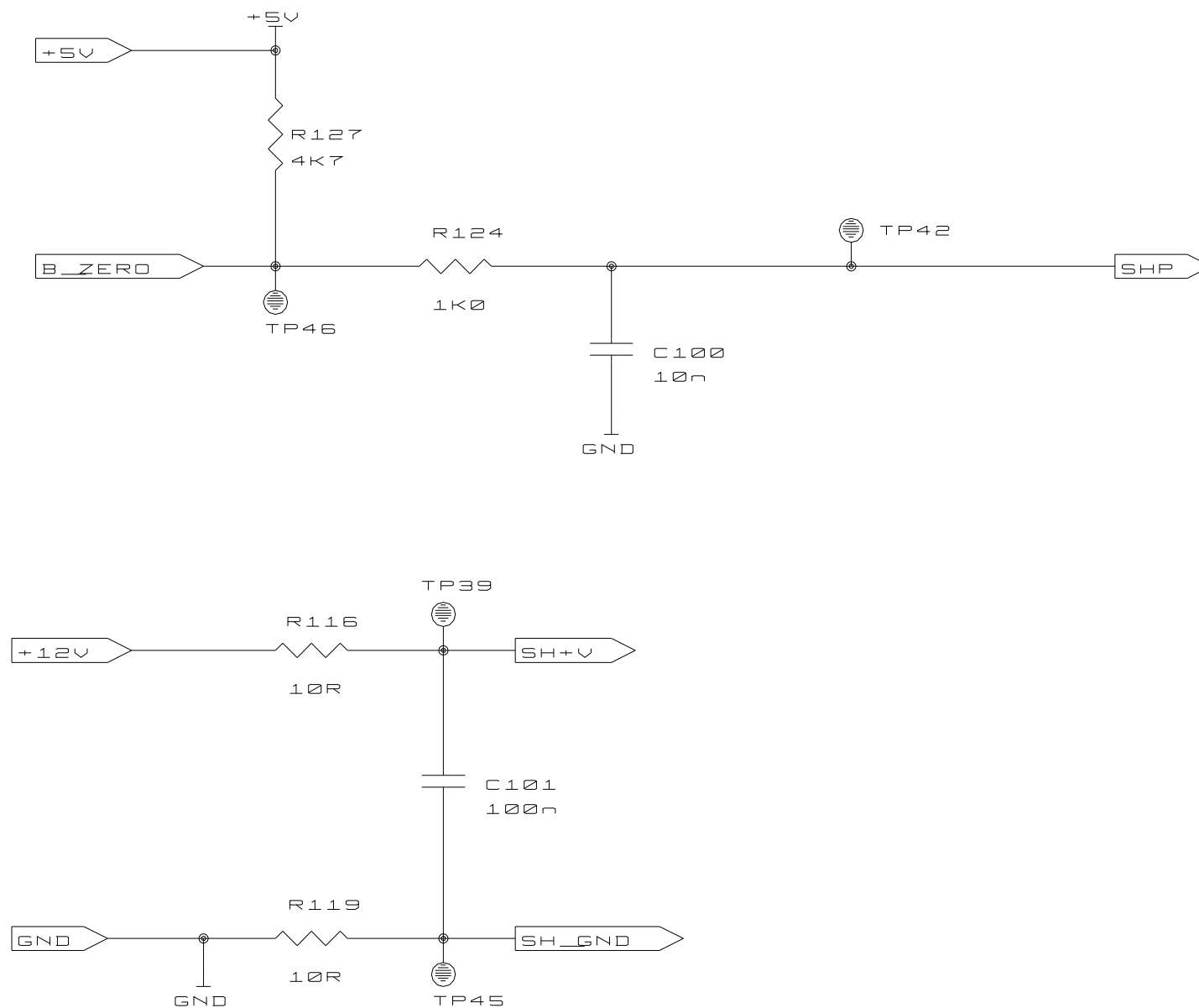


0	Add remote sw and updates Relates to MOD M-02-0139 Issue E PCB Iss. M and N of schematic Mods M-00-0001 M-01-0001 M-01-0128 Incorporated	11-12-02
L	ECN 4357-017/016	12-04-00
K	Add D70, D71	28-01-00
J	Minor Corrections	18-01-00
I	Minor Corrections	15-11-99
H	Many updates for Issue D PCB and for 10KW build	15-10-99
G	ECN 4357-013/016/017-013	13-5-99
F	ECN 4357-013-012 ECN 4357-013/016/017-011	27-4-99
E	ECN 4357-013-010 ECN 4357-013/016/017-009	24-3-99
D	Add C205 ECN 4357-013/016/017-008 ECN 4357-013/016/017-007 ECN 4357-013-006 ECN 4357-013/016/017-004 ECN 4357-013/016/017-003 ECN 4357-013/016/017-002 ECN 4357-013-001	24-2-99
C	Minor BOM corrections	25-1-99
B10	As for PCB Iss C	13-1-99
A12	Initial PCB Rev. B	07-9-98
Ax	Initial Draft's	01-9-98
ISS	Description of change	Date

Raymarine Ltd Anchorage Park Portsmouth England		
Title Pathfinder Radar - Modulator/PSU (MKII)		
Size	Document Number	REV
A2	4357-024	0
Date	January 7, 2003	Sheet 1 of 8



(c) Raymarine Ltd. Anchorage Park Portsmouth England		
Title POWER I/P FILTER		
Size A3	Document Number 4357-024	REV 0
Date: January 7, 2003	Sheet 2 of	8



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ANCHORAGE PARK
PORTMOUTH
ENGLAND

Title

Ships Heading Interface (Open Array)

Size

A4

Document Number

4357-024

REV

0

Date:

January 7, 2003

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8

STEP_+12V

X

STEP+5V

X

STEP_IO

X

MOTOR_EN_N

X

STEP_GND

X

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ANCHORAGE PARK
PORTMOUTH
ENGLAND

Title

Stepper Motor (Not Fit - Radome Only)

Size

A4

Document Number

4357-024

REV

0

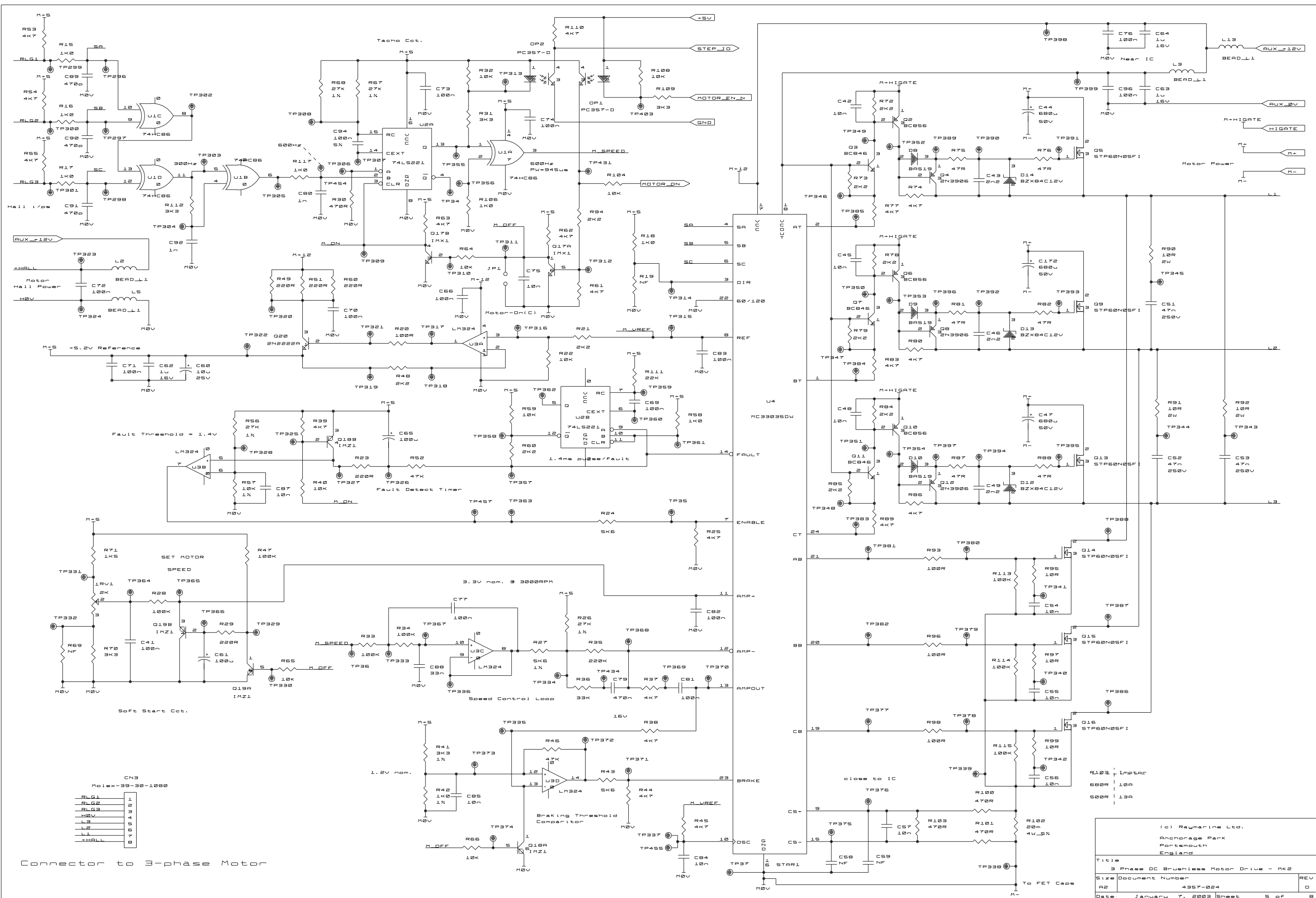
Date:

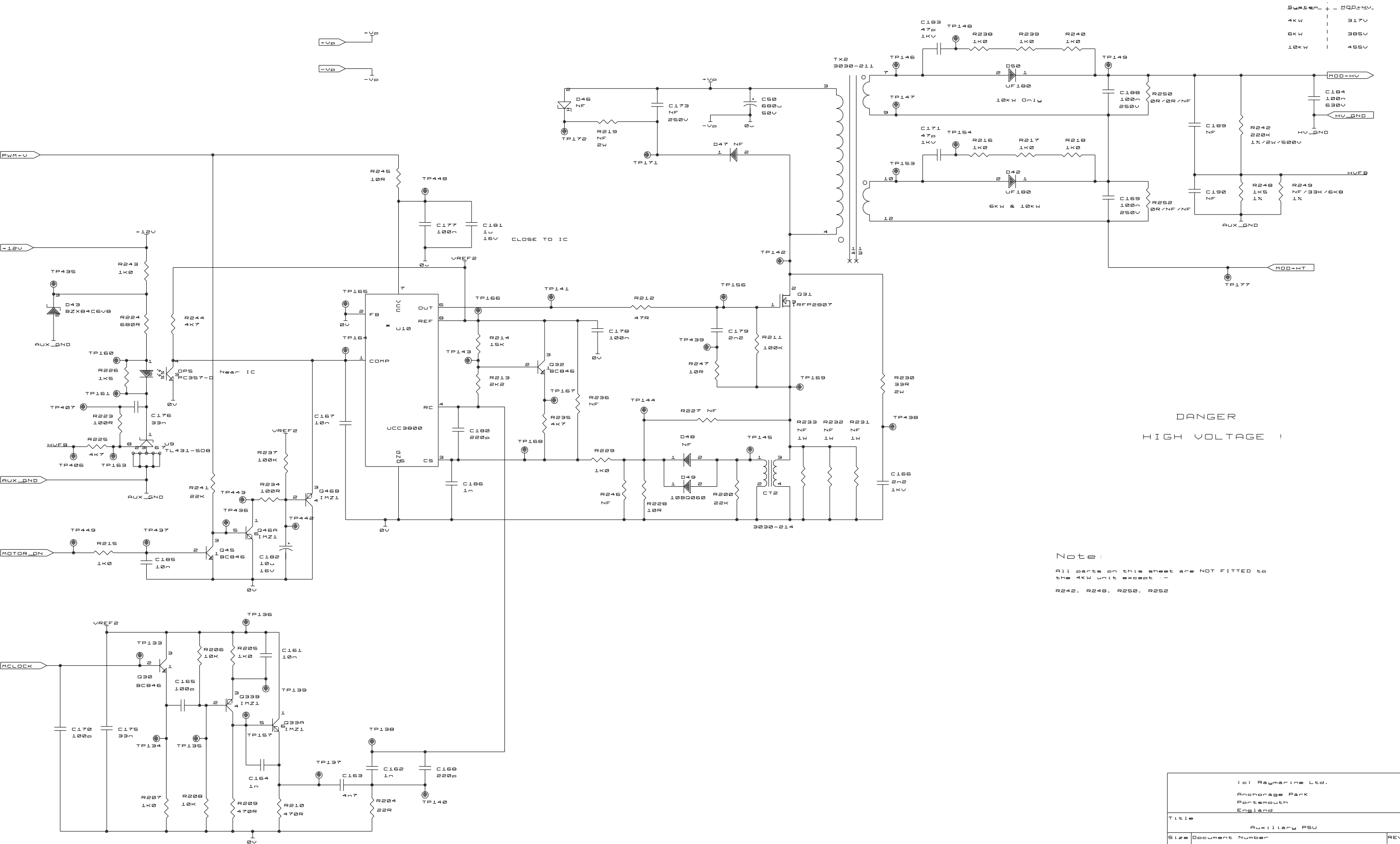
January 7. 2003

Sheet

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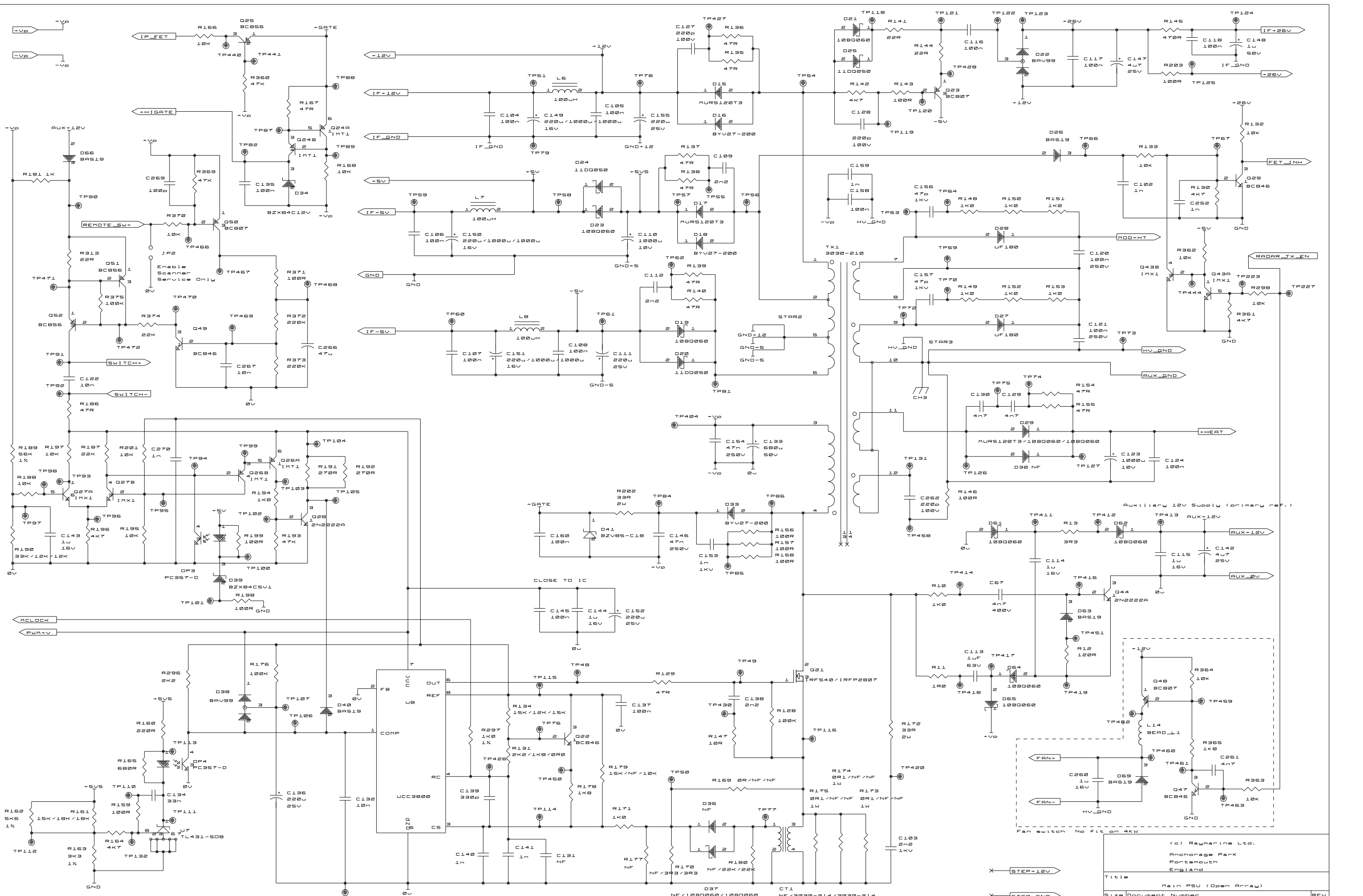
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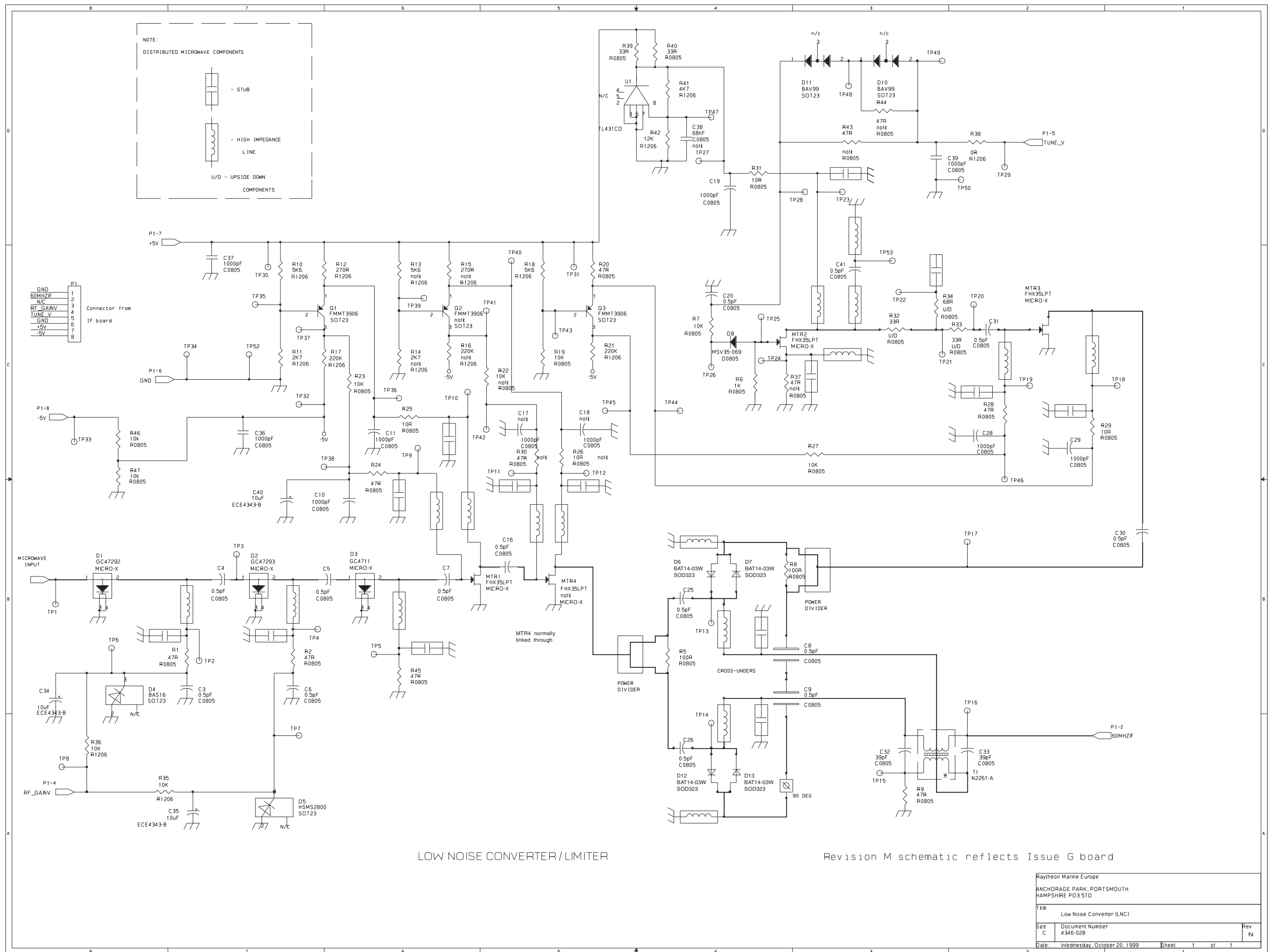


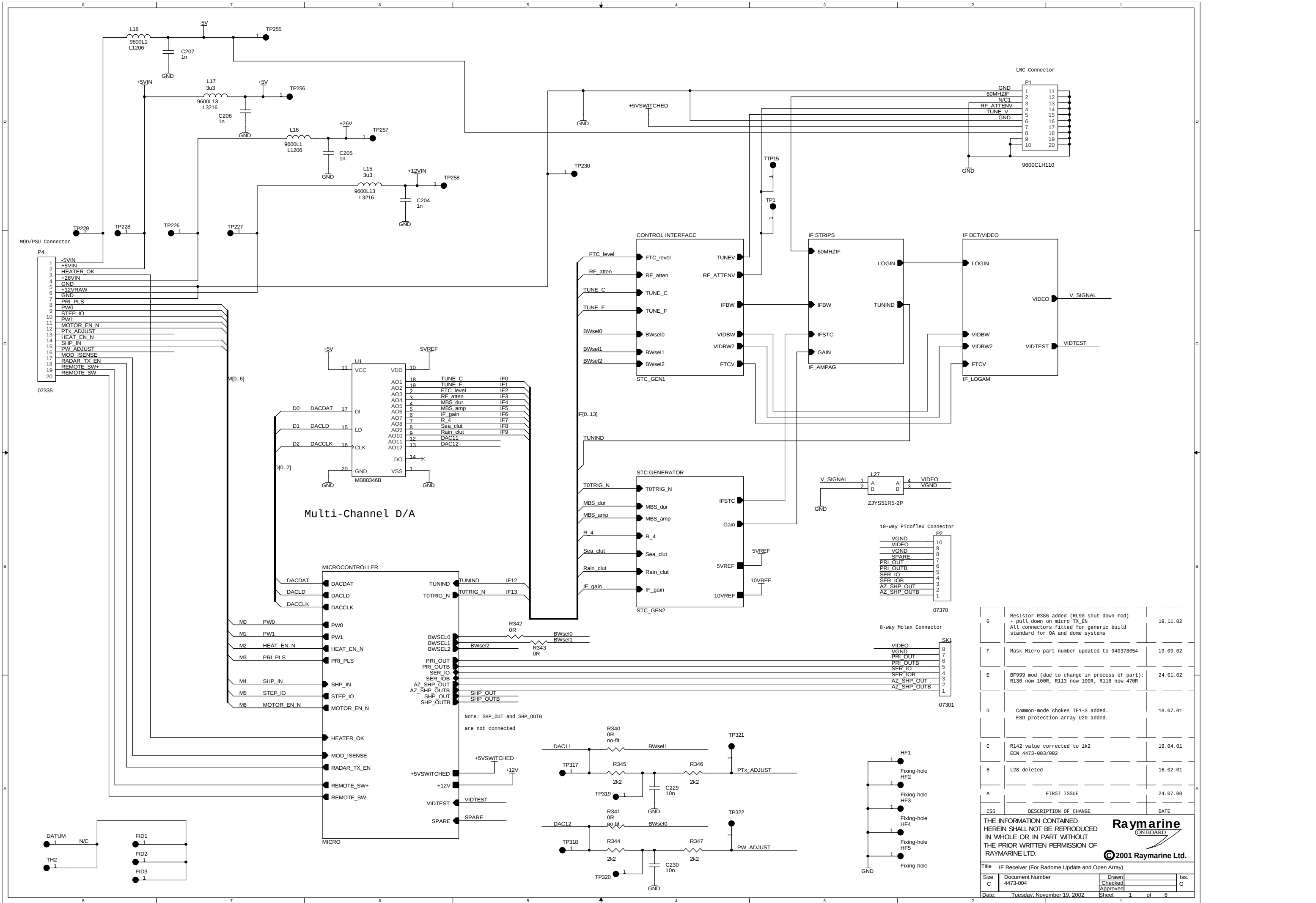


DANGER
HIGH VOLTAGE !

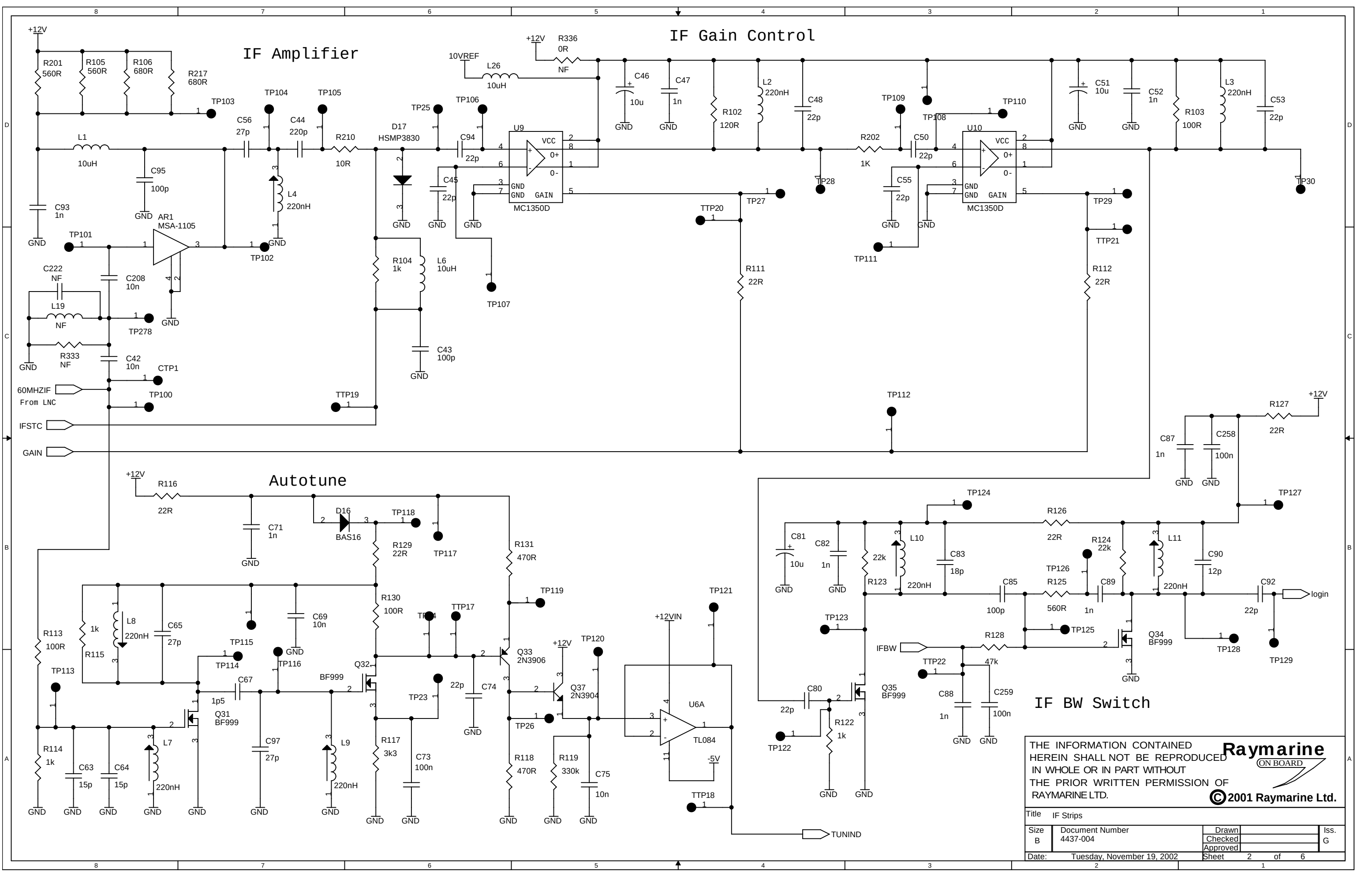
Note :
All parts on this sheet are NOT FITTED to
the 4kW unit except :-
R242, R248, R250, R252







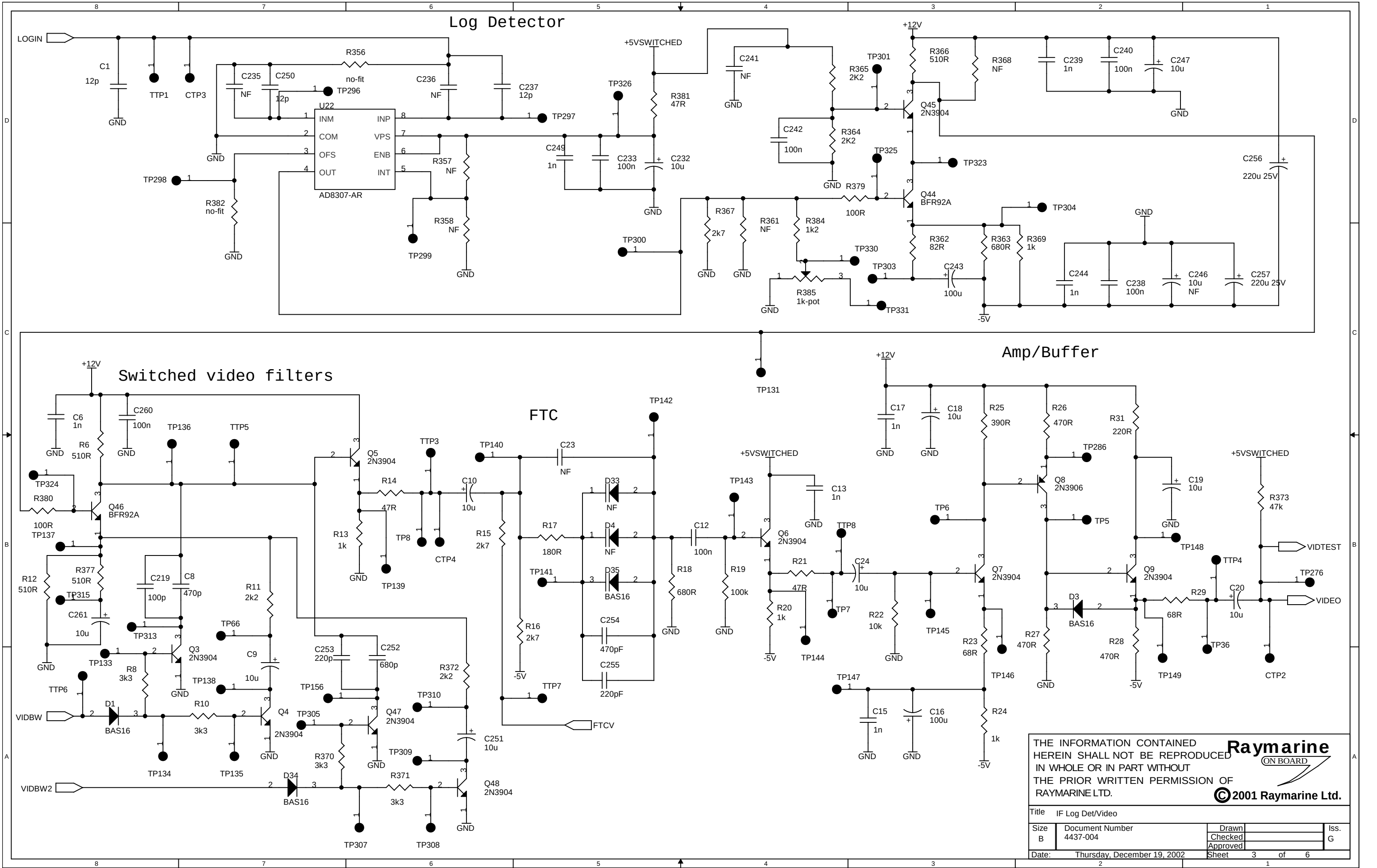
G	Resistor R386 added (RL90 shut down mod) - pull down on micro TX_EN All connectors fitted for generic build standard for QA and dome systems	19.11.02
F	Mask Micro part number updated to 948378054	19.09.02
E	BF999 mod (due to change in process of part): R130 now 100R, R113 now 100R, R118 now 470R	24.01.02
D	Common-mode chokes TF1-3 added. ESD protection array U20 added.	18.07.01
C	R142 value corrected to 1k2 ECN 4473-003/002	19.04.01
B	L28 deleted	16.02.01
A	FIRST ISSUE	24.07.00
ISS	DESCRIPTION OF CHANGE	DATE
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Title IF Receiver (For Radome Update and Open Array)		
Size	Document Number	Drawn
C	4473-004	Checked
		Approved
Date:	Tuesday, November 19, 2002	Sheet 1 of 6

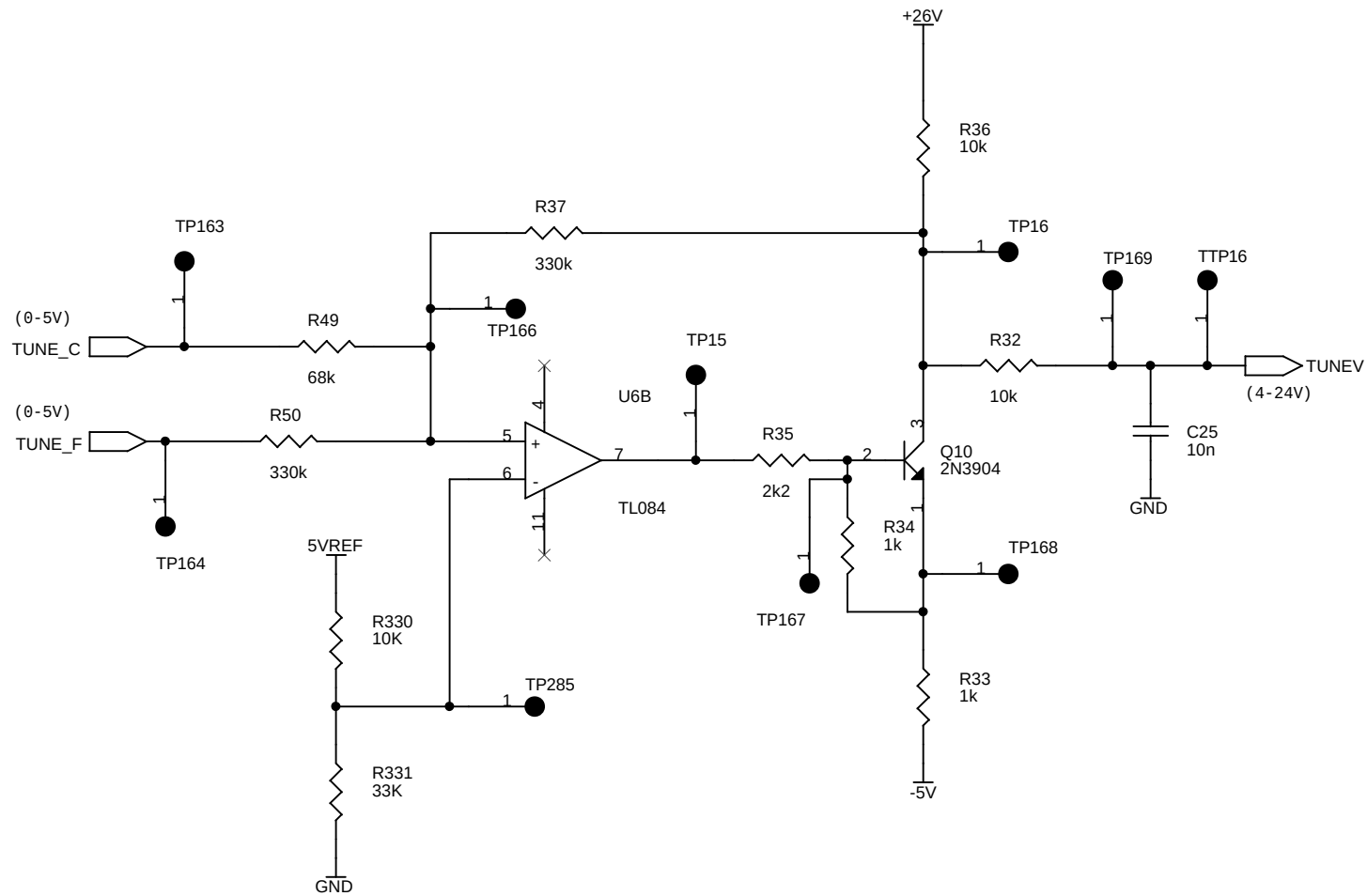
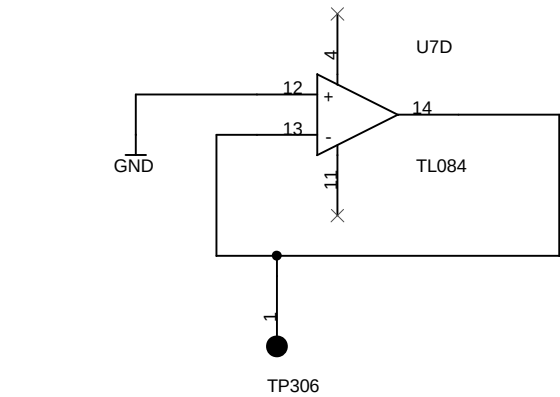
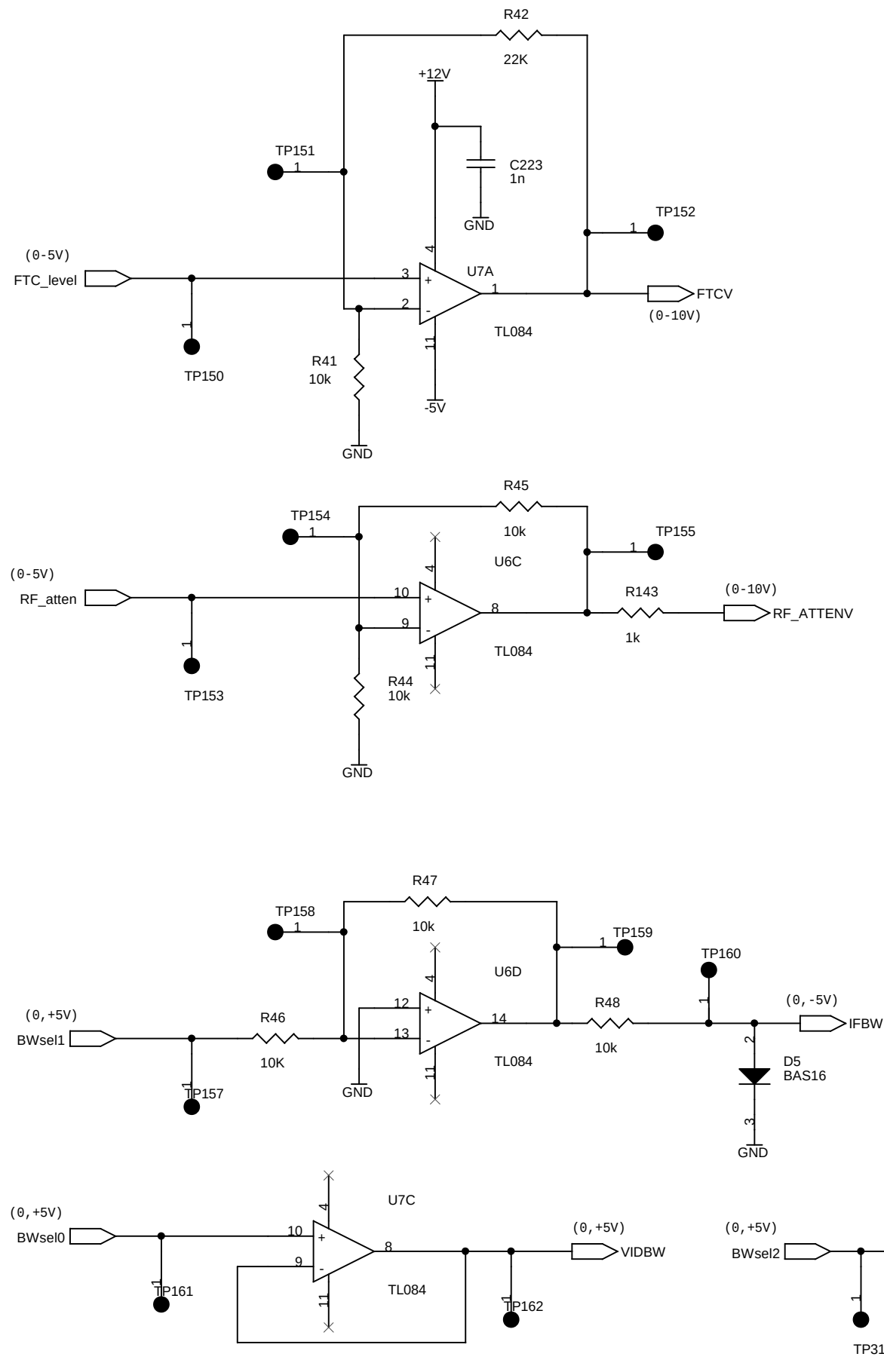


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Title IF Strips			
Size B	Document Number 4437-004	Drawn	Iss. G
		Checked	
		Approved	
Date: Tuesday, November 19, 2002		Sheet 2 of 6	





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Title Control Interface						
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					Checked	
					Approved	
Date: Tuesday, November 19, 2002				Sheet 5 of 6		

