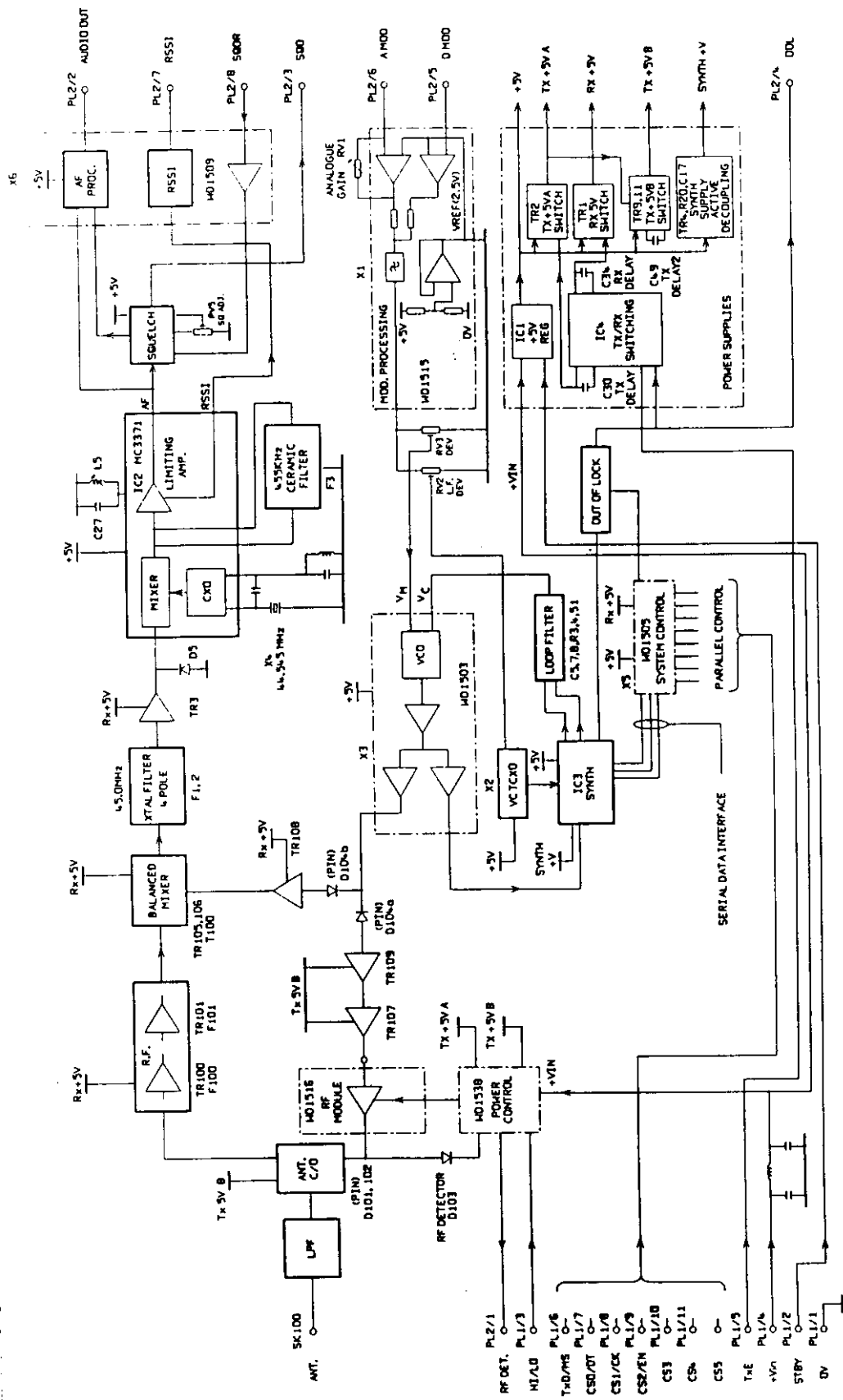


DRAWING NO.
WS1250/XX0

THIRD ANGLE PROJECTION

THIS DRAWING IS THE PROPERTY OF WOODS AND DOUGLAS
AND MAY NOT BE REPRODUCED OR TRANSMITTED IN ANY FORM OR BY ANY MEANS
ELECTRONIC OR MECHANICAL, INCLUDING PHOTOCOPYING, RECORDING, OR BY ANY INFORMATION STORAGE AND RETRIEVAL SYSTEM
WITHOUT THE WRITTEN PERMISSION OF WOODS AND DOUGLAS
THIS DRAWING IS THE PROPERTY OF WOODS AND DOUGLAS
AND MAY NOT BE REPRODUCED OR TRANSMITTED IN ANY FORM OR BY ANY MEANS
ELECTRONIC OR MECHANICAL, INCLUDING PHOTOCOPYING, RECORDING, OR BY ANY INFORMATION STORAGE AND RETRIEVAL SYSTEM
WITHOUT THE WRITTEN PERMISSION OF WOODS AND DOUGLAS



TITLE

BLOCK DIAGRAM FOR
SX450 TRANSCEIVER

AMENDMENTS

ISSUE	MODIFICATION	DATE
B	MOD02230	6/95

DRAWN BY

3 DOUGLAS

CHECKED BY

DATE

DATE

APPROVED

SCALE

DIMS. IN

DATE

DATE

DATE

DATE

LATTICE HOUSE,
BAUGHURST,
BASINGSTOKE,
HAMPSHIRE RG26 5LL.

WOODS & DOUGLAS
— ELECTRICAL ENGINEERS —

DRAWING NO.
WS1250/XX0

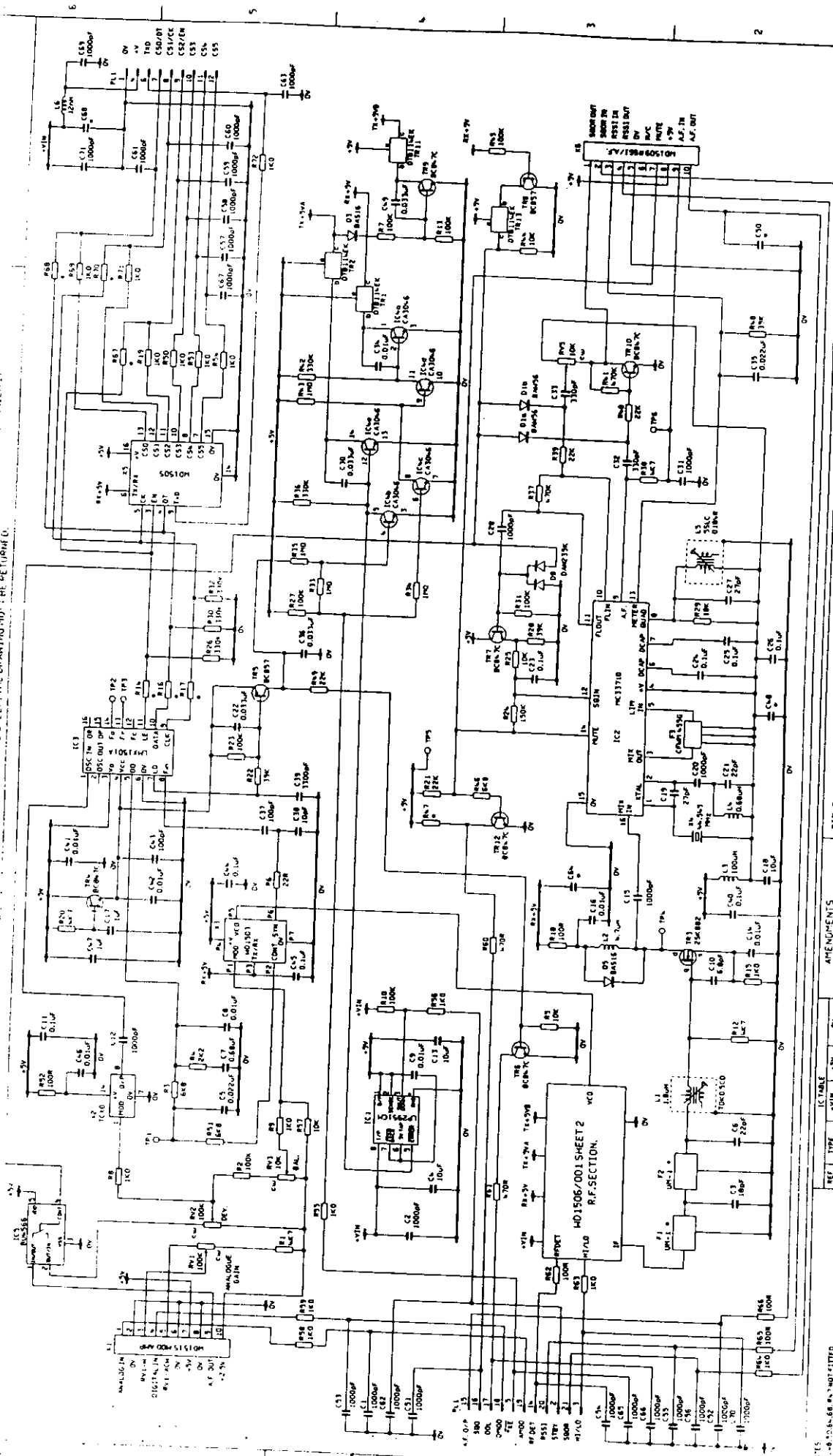
1554E
B

AMENDMENTS		TITLE		COMPONENT OVERLAY FOR SX450 TRANSCEIVER		LATTICE HOUSE, BACHOURS, BASINGSTOCK, WANDSWORTH, LONDON W8 8 DOUGLAS		SHT 1 OF 3		C	
		DRAWN BY J. J. J. J. J.		DATE 30.9.80							
		CHECKED BY <i>W. J. J. J. J.</i>		DATE 31-10-95							
		APPROVED <i>W. J. J. J. J.</i>		DATE 31-10-95							
		SCALE		DIMS. IN							

WD1506/XX1

OF 2

REASON FOR COMPLETION OF THE ORDER. THE DRAWING MUST BE RETURNED.



CIRCUIT DIAGRAM FOR SX450 MOTHERBOARD

AMENDMENTS			
REV	TYPE	DATE	ISSUE
1	1	10-7-95	1
2	2	10-7-95	2
3	3	10-7-95	3
4	4	10-7-95	4
5	5	10-7-95	5
6	6	10-7-95	6
7	7	10-7-95	7
8	8	10-7-95	8
9	9	10-7-95	9
10	10	10-7-95	10
11	11	10-7-95	11
12	12	10-7-95	12
13	13	10-7-95	13
14	14	10-7-95	14
15	15	10-7-95	15
16	16	10-7-95	16
17	17	10-7-95	17
18	18	10-7-95	18
19	19	10-7-95	19
20	20	10-7-95	20
21	21	10-7-95	21
22	22	10-7-95	22
23	23	10-7-95	23
24	24	10-7-95	24
25	25	10-7-95	25

AMENDMENTS			
REV	TYPE	DATE	ISSUE
1	1	10-7-95	1
2	2	10-7-95	2
3	3	10-7-95	3
4	4	10-7-95	4
5	5	10-7-95	5
6	6	10-7-95	6
7	7	10-7-95	7
8	8	10-7-95	8
9	9	10-7-95	9
10	10	10-7-95	10
11	11	10-7-95	11
12	12	10-7-95	12
13	13	10-7-95	13
14	14	10-7-95	14
15	15	10-7-95	15
16	16	10-7-95	16
17	17	10-7-95	17
18	18	10-7-95	18
19	19	10-7-95	19
20	20	10-7-95	20
21	21	10-7-95	21
22	22	10-7-95	22
23	23	10-7-95	23
24	24	10-7-95	24
25	25	10-7-95	25

LATTICE HOUSE,
BAUGHURST,
HAMPSHIRE RG26 5LP.

WD1506/XX1

SWT 1
OF 2

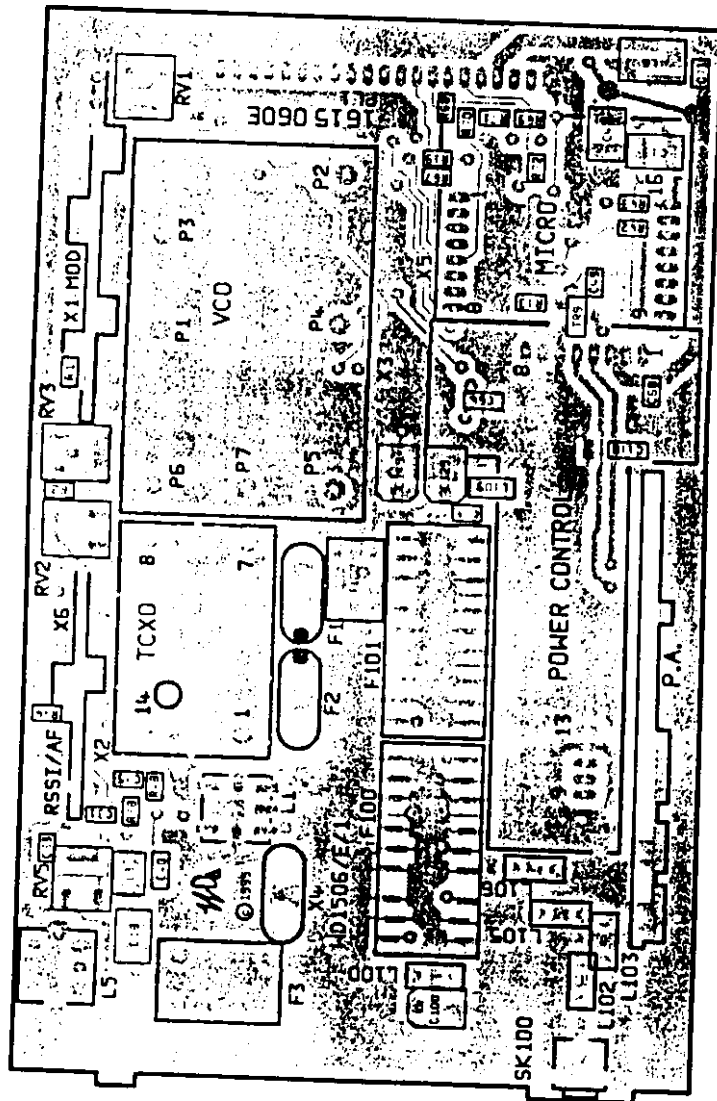
DRAWING No.

WD1506/XX1

SWT 1
OF 2

ISSUE

C



AMENDMENTS

TITLE
COMPONENT OVERLAY FOR
SX450 TRANSCIVER

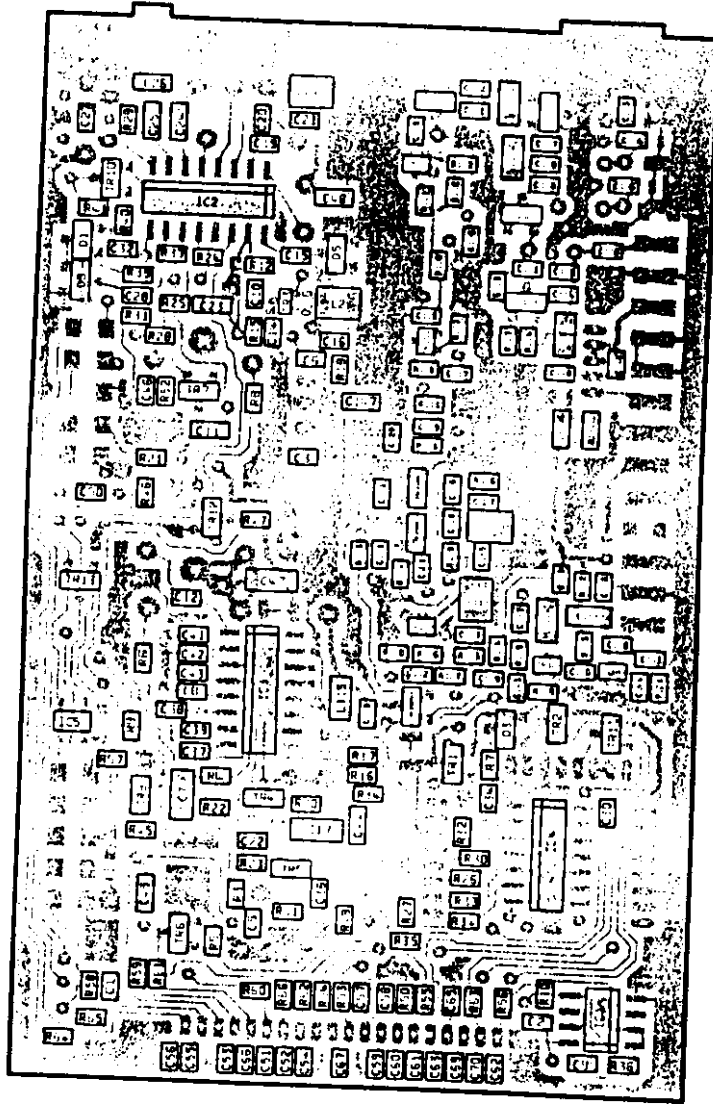
DRAWN BY A J MCINNES DATE 30-9-94
CHECKED BY *W. J. McInnes* DATE 31-10-95
APPROVED *W. J. McInnes* DATE 31-10-95
SCALE DIMS. IN

LATTICE HOLDINGS
BAUGHURST
BASTINGSTON
WINDERMERE

WD 1506/XX2

SHT 2
OF 3

C



REVISIONS

TITLE

COMPONENT OVERLAY FOR SX450 TRANSCEIVER

UPAWN BY A J McINNES

DATE 30-9-94

CHECKED BY *WJL*

DATE 31-10-95

APPROVED *[Signature]*

DATE 31-10-95

SCALE

DIMS. IN mm

ATTICE HOUSE,
BAUGHURST,
BASINGSTOKE,
HAMPSHIRE RG24 8AN.

[Signature]

WOOD & DODD, LTD.

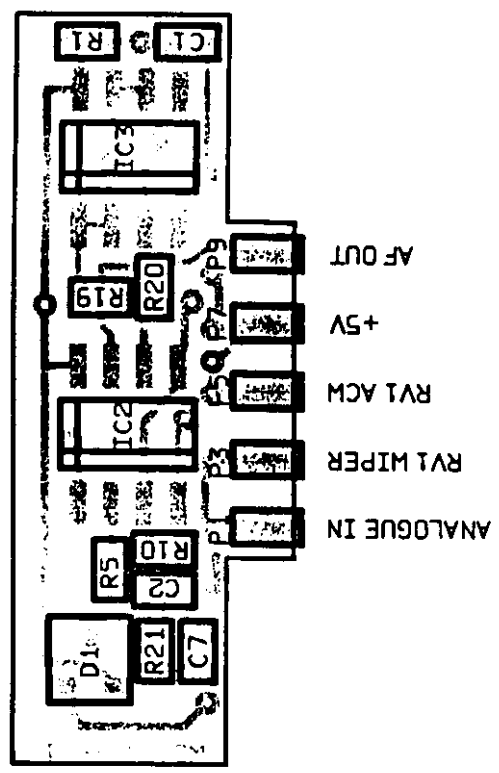
WD1506/XX2

SHT 3

OF 3

C

WD1515/XX2



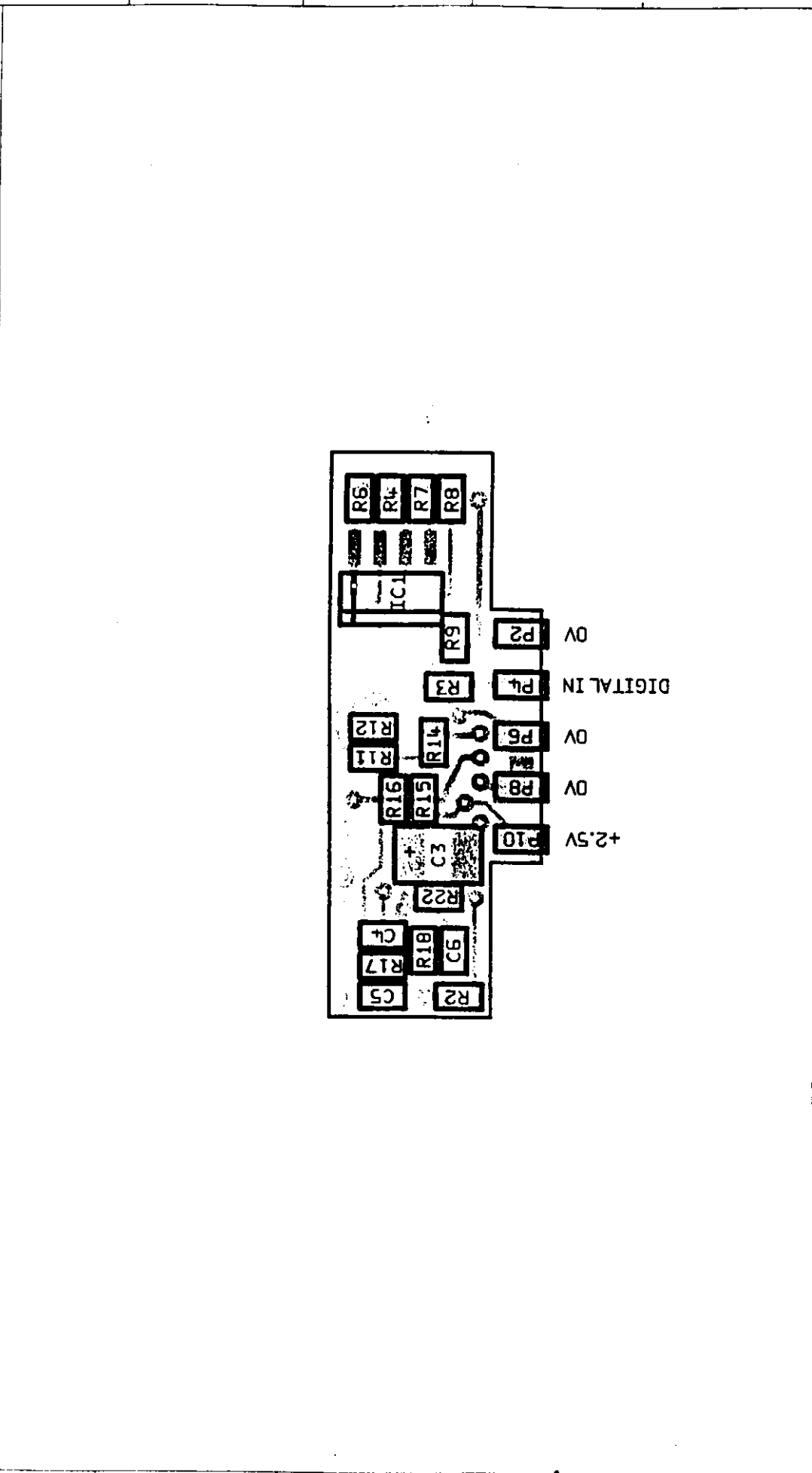
COMPONENT OVERLAY FOR
TX AF BOARD

WD

29/7/95
24-7-95

WD1515/XX2 SHT 1 OF 2 B

WD1515/XX2			
------------	--	--	--



100

WD1515/XX2	SHT20F2	B
------------	---------	---

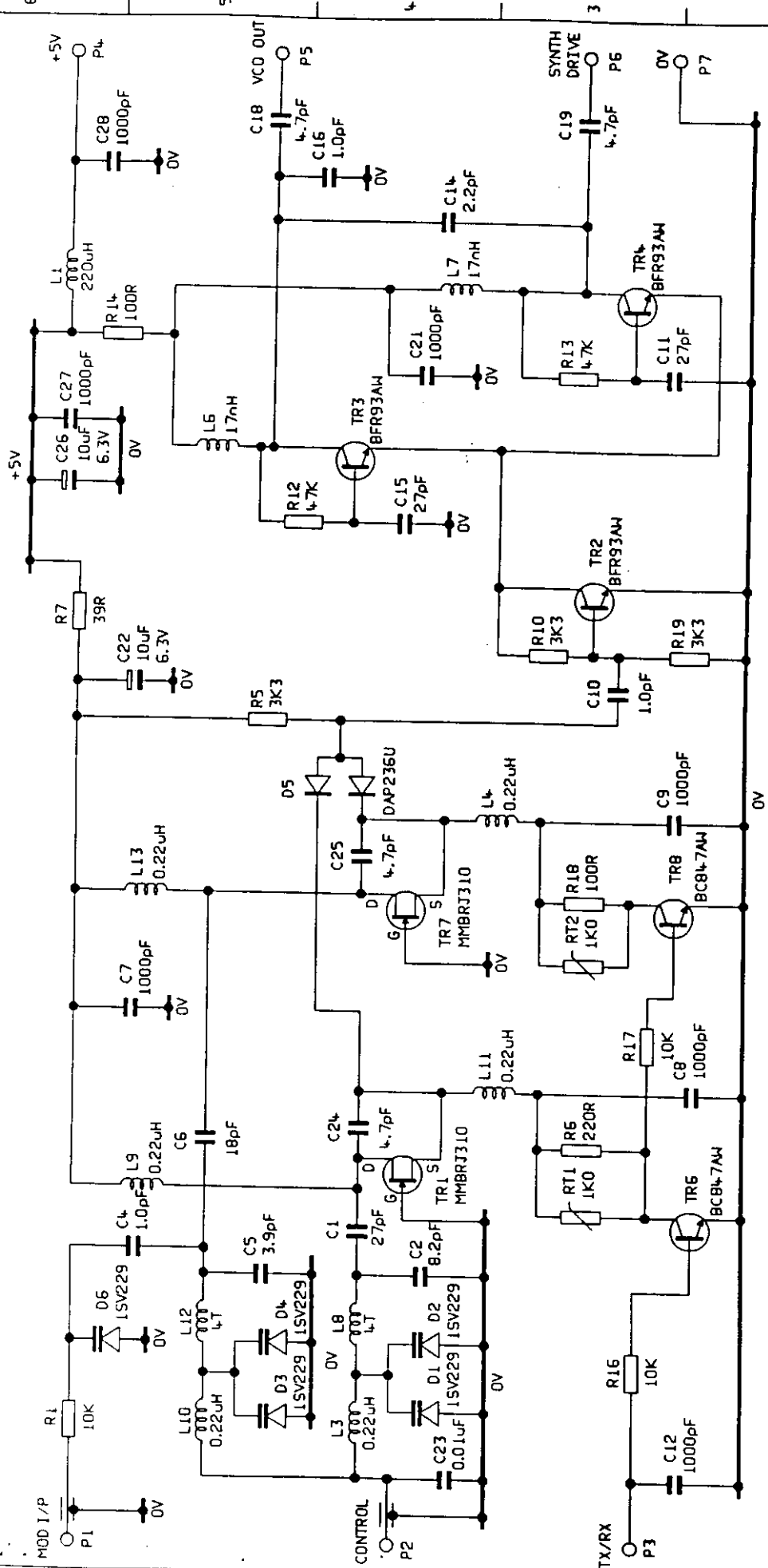
WD1515/XX2	SHT20F2	B
------------	---------	---

U.S. PAT. NO. 3,800,000

THIRD ANGLE PROJECTION

THIS DRAWING IS THE PROPERTY OF WOOD AND DOUGLAS AND MAY NOT BE REPRODUCED OR COPIED IN WHOLE OR IN PART OR USED FOR ANY PURPOSE OTHER THAN THAT FOR WHICH IT IS SUPPLIED. ON COMPLETION OF THE ORDER, THE DRAWING MUST BE RETURNED.

WD1503/001



FREQUENCY TUNING TABLE	
MHZ	COMPONENTS
400-430	TBD
430-450	TBD
450-470	TBD

AMENDMENTS	
ISSUE	DESCRIPTION
B	MODIFIED
C	MODIFIED
D	MODIFIED

TITLE	
CIRCUIT DIAGRAM FOR VCO & BUFFER (450-470MHz)	
DRAWN BY	A J McINNES
CHECKED BY	M Danner
APPROVED	WDS
SCALE	

LATTICE HOUSE,
BAUGHURST,
BASINGSTOKE,
HAMPSHIRE RG26 5LP.

WOOD & DOUGLAS
WE CAN CONNECT YOUR IDEAS

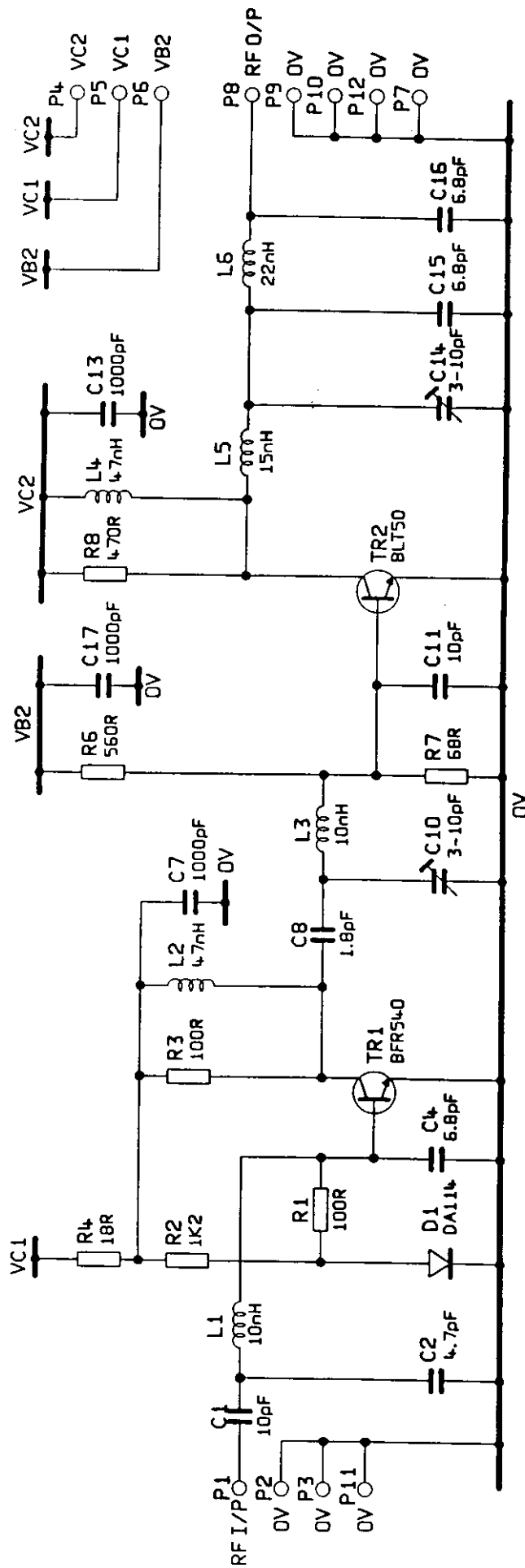
DRAWING NO. WD1503/001

ISSUE D

DRAWING No.
WD1516/001

THIRD ANGLE PROJECTION

THIS DRAWING IS THE PROPERTY OF WOOD AND DOUGLAS AND MAY NOT BE REPRODUCED OR USED IN ANY MANNER WITHOUT THE EXPRESS WRITTEN CONSENT OF WOOD AND DOUGLAS. IT IS SUPPLIED ON COMPLETION OF THE ORDER. THE DRAWING MUST BE RETURNED.

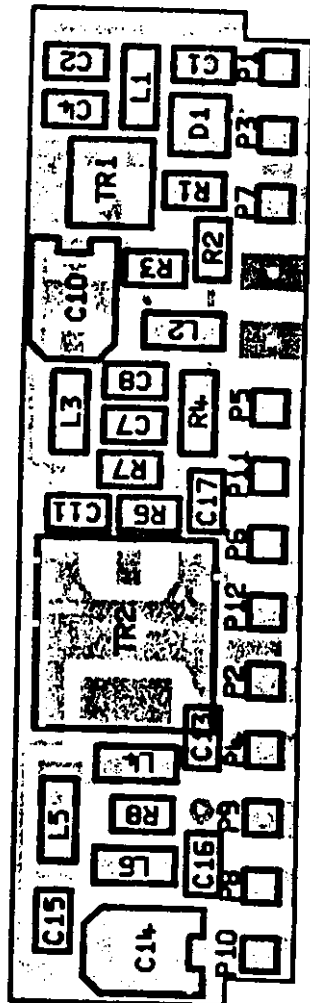


AMENDMENTS	
ISSUE	MODIFICATION No.
B	M0002104
C	M0002216
D	M0002043

TITLE	
CIRCUIT DIAGRAM FOR SX450 P.A. MODULE	
DRAWN BY	M. TAYLOR
CHECKED BY	<i>M. Taylor</i>
APPROVED	<i>W. Taylor</i>
SCALE	

DATE	
DATE	
DATE	
DIMS. IN	
DRAWING NO.	
WD1516/001	
ISSUE	
D	

LATTICE HOUSE,
BAUGHURST,
BASINGSTOKE,
HAMPSHIRE RG26 5LL.
WOOD & DOUGLAS
TELEPHONE 0256 344444



REV	DATE	BY
1	10/10/94	9/9/94
2	10/10/94	9/9/94
3	10/10/94	9/9/94
4	10/10/94	9/9/94
5	10/10/94	9/9/94
6	10/10/94	9/9/94
7	10/10/94	9/9/94
8	10/10/94	9/9/94
9	10/10/94	9/9/94
10	10/10/94	9/9/94

1	10/10/94	9/9/94
2	10/10/94	9/9/94
3	10/10/94	9/9/94
4	10/10/94	9/9/94
5	10/10/94	9/9/94
6	10/10/94	9/9/94
7	10/10/94	9/9/94
8	10/10/94	9/9/94
9	10/10/94	9/9/94
10	10/10/94	9/9/94

1	10/10/94	9/9/94
2	10/10/94	9/9/94
3	10/10/94	9/9/94
4	10/10/94	9/9/94
5	10/10/94	9/9/94
6	10/10/94	9/9/94
7	10/10/94	9/9/94
8	10/10/94	9/9/94
9	10/10/94	9/9/94
10	10/10/94	9/9/94

MD

10/10/94

10/10/94

10/10/94

10/10/94

10/10/94

10/10/94

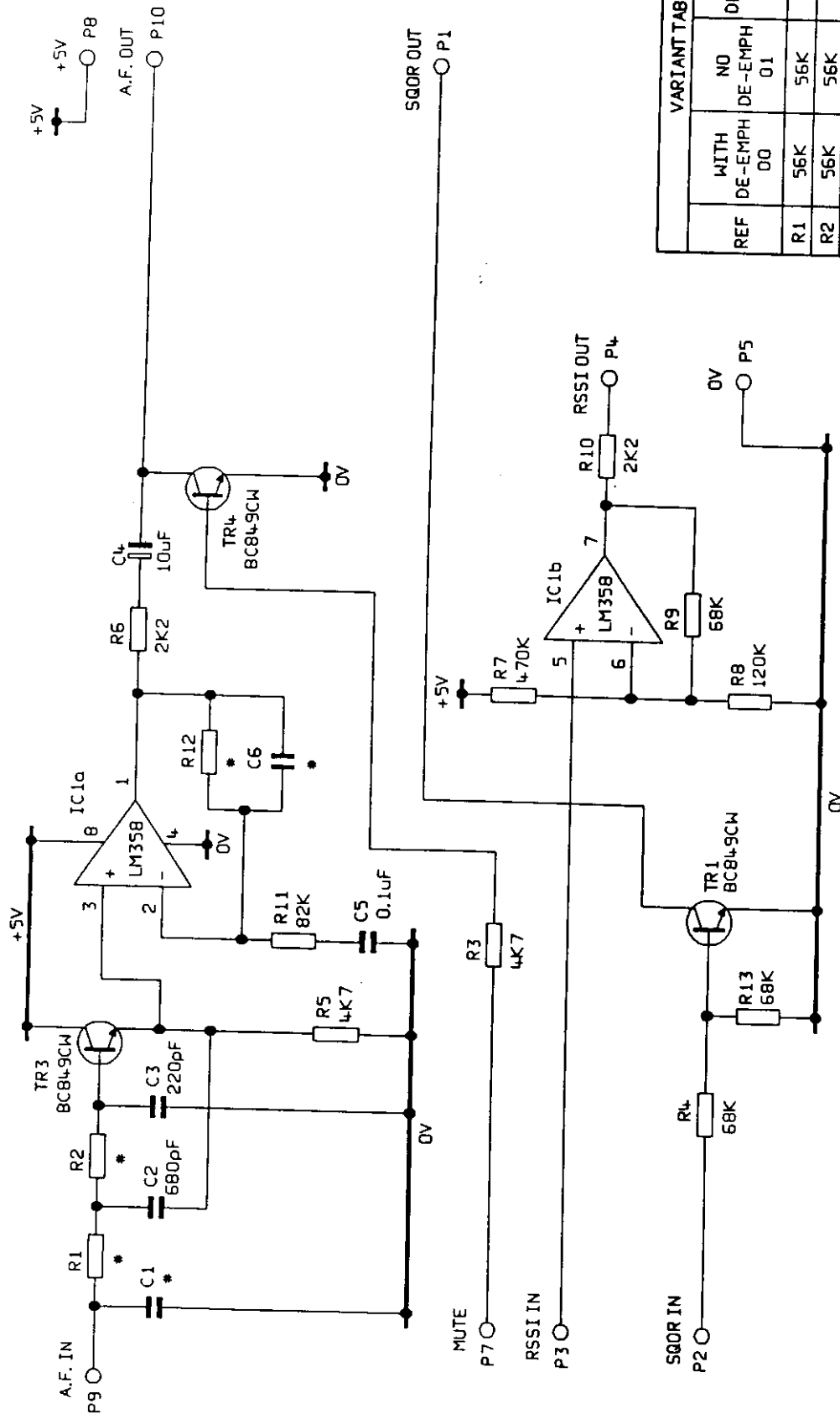
10/10/94

WD1509/XX1

100 A

THIS OR

WOOD & DOUGLAS BE COPIED IN WHOLE OR IN PART OR USED FOR ANY PURPOSE OTHER THAN THAT FOR WHICH IT IS SUPPLIED ON COMPLETION OF THE ORDER. THE DRAWING MUST BE RETURNED.



VARIANT TABLE			
REF	WITH DE-EMPH 00	NO DE-EMPH 01	WITH DE-EMPH EXT 02
R1	56K	56K	39K
R2	56K	56K	39K
R12	1M	82K	1M
C6	680pF	-	680pF

NOTES:
1. C1 NOT FITTED.

AMENDMENTS

CIRCUIT DIAGRAM FOR
RSSI & RX AF BOARD

ISSUE	MODIFICATION No.	DATE
1		
2		
3		
4		
5		
6		
7		
8		
9		
10		
11		
12		
13		
14		
15		
16		
17		
18		
19		
20		

DRAWN BY A J McINNES
CHECKED BY *W. J. McInnes*
APPROVED *W. J. McInnes*
SCALE
DATE 8-11-95
DATE 9-11-95
DATE 13-11-95
DIMS. IN

LATTICE HOUSE,
BAUGHURST,
BASINGSTOKE,
HAMPSHIRE RG26 5LP.

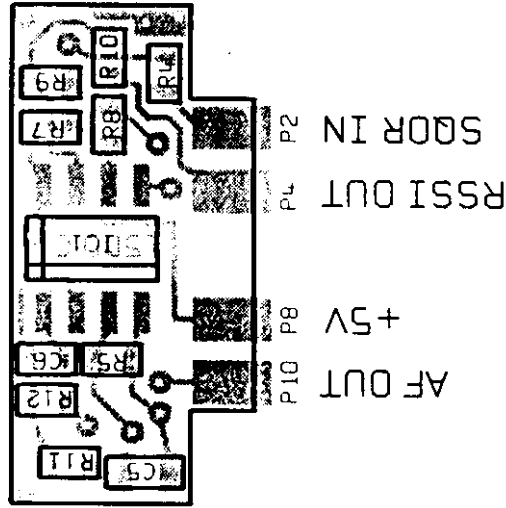
WD

WOOD & DOUGLAS
FOR THE COMMUNICATIONS INDUSTRYDRAWING No.
WD1509/XX1
ISSUE
A

WD1509/XX2

WORKING PROOF

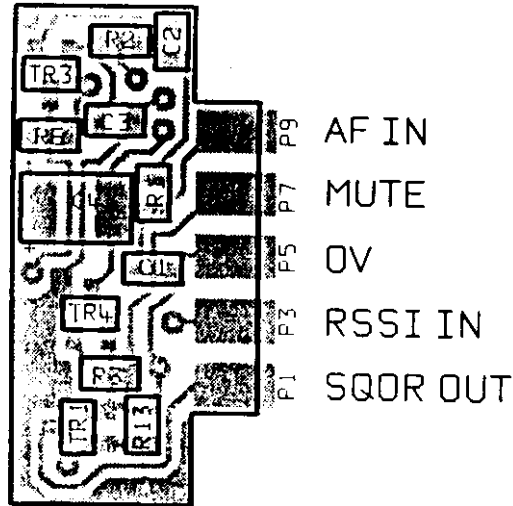
THIS DRAWING IS THE PROPERTY OF THE DRAWING OFFICE AND IS NOT TO BE REPRODUCED OR USED IN ANY MANNER WITHOUT THE WRITTEN PERMISSION OF THE DRAWING OFFICE. IF THIS DRAWING IS USED FOR ANY PURPOSE OTHER THAN THAT FOR WHICH IT WAS DRAWN, THE DRAWING MUST BE RETURNED.



1997

[illegible]

THE DRAWING IS THE PROPERTY OF HUGO AND COMPANY AND IS NOT TO BE REPRODUCED OR TRANSMITTED IN ANY FORM OR BY ANY MEANS, ELECTRONIC OR MECHANICAL, INCLUDING PHOTOCOPYING, RECORDING, OR BY ANY INFORMATION STORAGE AND RETRIEVAL SYSTEM, WITHOUT THE WRITTEN PERMISSION OF HUGO AND COMPANY. THE DRAWING MUST BE RETURNED TO THE SOURCE OF ORIGIN UPON COMPLETION OF THE ORDER. THE DRAWING MUST BE RETURNED TO THE SOURCE OF ORIGIN UPON COMPLETION OF THE ORDER. THE DRAWING MUST BE RETURNED TO THE SOURCE OF ORIGIN UPON COMPLETION OF THE ORDER.



**TITLE COMPONENT OVERLAY FOR
RSSI & RX AF BOARD**

DRAIN BY A J McINNES	DATE 10-7-95
----------------------	--------------

CHECKED BY <i>gflowers</i>	DATE <i>11-1-95</i>
----------------------------	---------------------

APPROVED	DATE 11-7-95
----------	--------------

SCALE	DIMS. IN mm
-------	-------------

LATTICE HOUSE,
BAUGHURST,
BASINGSTOKE,
HAMPSHIRE.

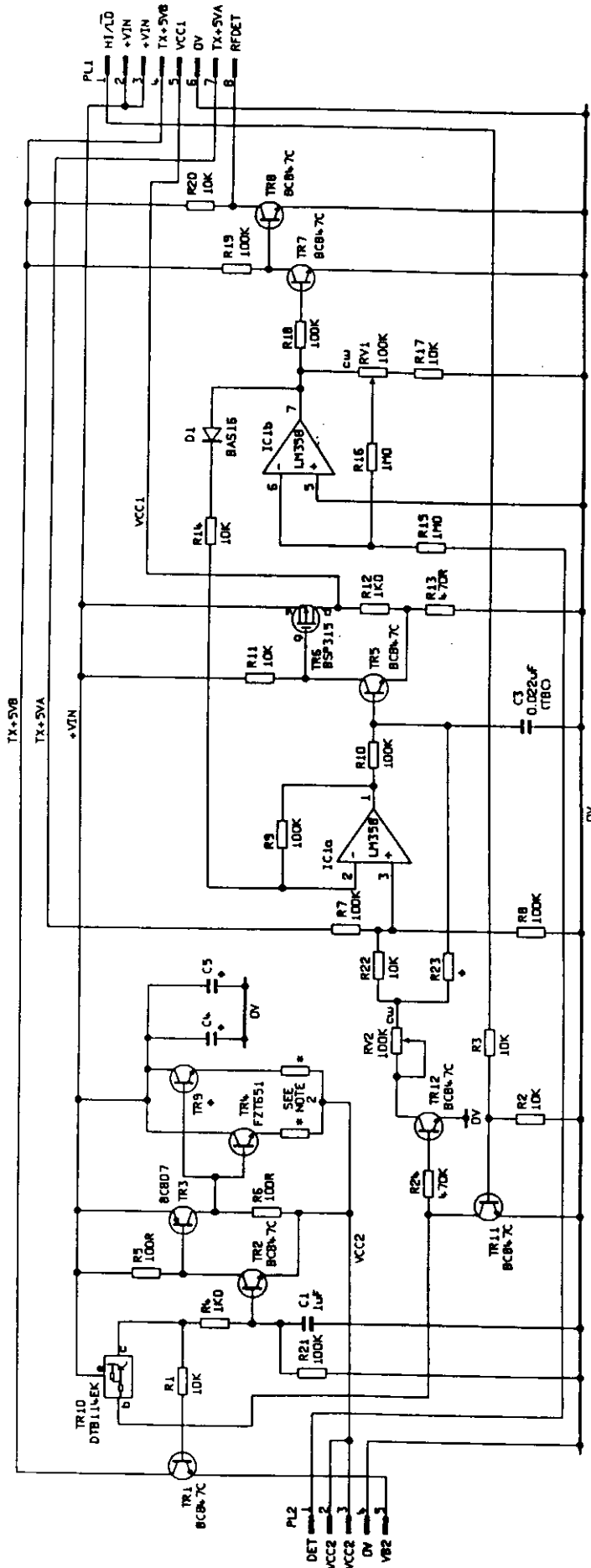
WILLIAM DOUGLAS

GRADING No. **WD1509/XX2** **5MT2** **OF2** **ISSUE A**

WD1538/001

PROJECT

THIS DRAWING IS THE PROPERTY OF WOOD & DOUGLAS AND MAY NOT BE REPRODUCED OR TRANSMITTED IN ANY FORM OR BY ANY MEANS, ELECTRONIC OR MECHANICAL, WITHOUT THE EXPRESS WRITTEN CONSENT OF WOOD & DOUGLAS. IT IS SUPPLIED ON COMPLETION OF THE ORDER. THE DRAWING MUST BE RETURNED.



NOTES:

1. C4, 5, R23, TR9 NOT FITTED.
2. PRINTED RESISTORS (PART OF PCB).

REF	TYPE	TX+5V8	OV
IC1	LM358CM	B	4

AMENDMENTS	DATE
MOD 21-1	5-95

CIRCUIT DIAGRAM FOR SX450 POWER CONTROL (0.5W)

DRAWN BY A J McINNES

CHECKED BY M Dwyer

APPROVED *[Signature]*

SCALE

DATE 22-12-94

DATE 4-7-95

DATE 4-7-95

DIMS. IN

LATTICE HOUSE.
BAUGHURST.
BASINGSTOKE.
HAMPSHIRE RG26 5LL.

WOOD & DOUGLAS
AND ASSOCIATED ENGINEERS

DRAWING No.

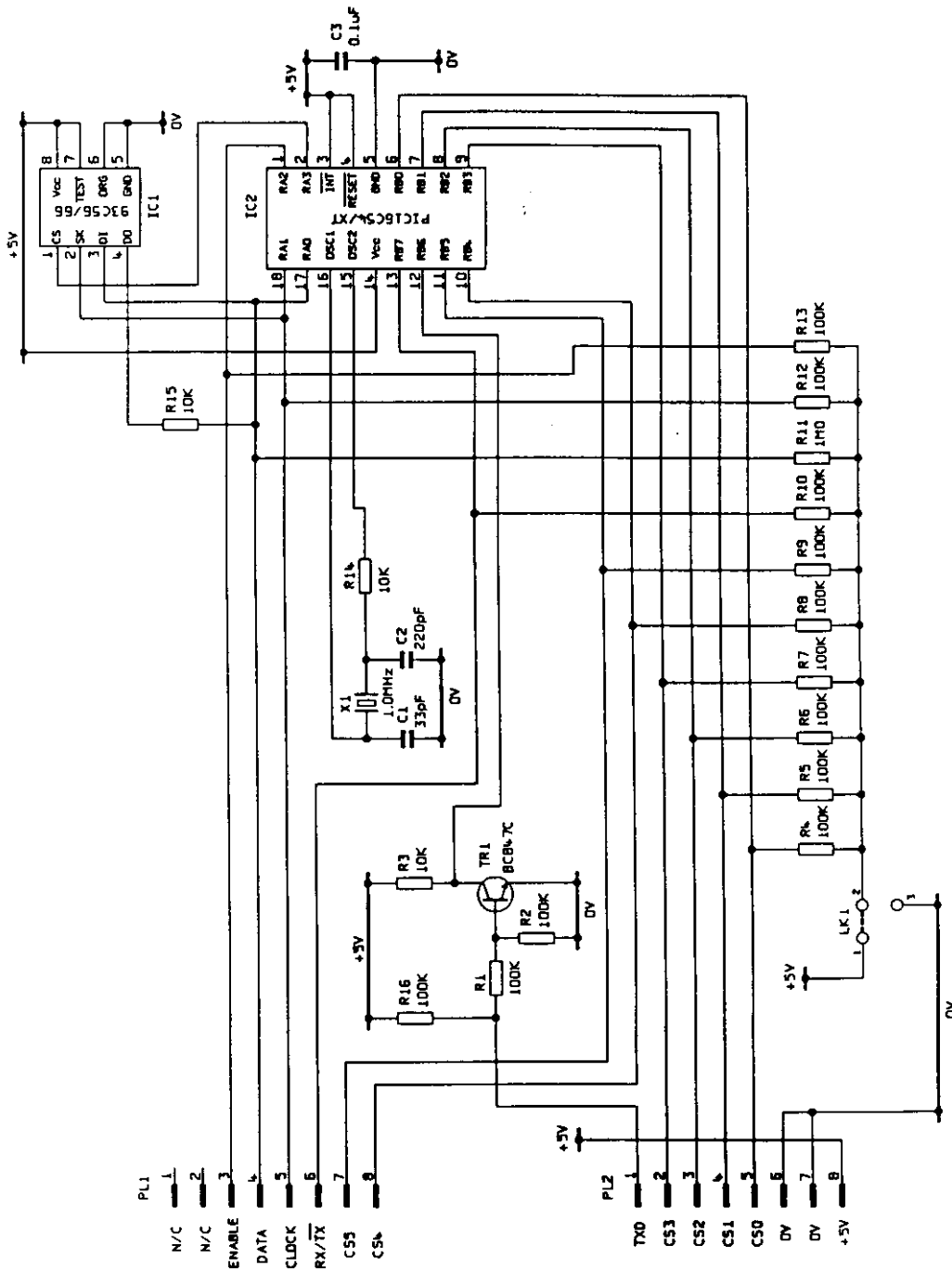
WD1538/001

ISSUE

B

WD1505/001

THIS DRAWING IS THE PROPERTY OF LATTICE HOUSE, BAUGHURST, HAMPSHIRE RG26 5LP. IT IS SUPPLIED ON COMPLETION OF THE ORDER. THE DRAWING MUST BE RETURNED.



CIRCUIT DIAGRAM FOR SX450 MICROCONTROLLER

TITLE

AMENDMENTS

ISSUE

MODIFICATION No.

DATE

10-95

11-95

6-95

7-95

APPROVED

CHECKED BY

DRAWN BY

A3 MCINNES

DATE

7-10-95

DATE

4-7-95

DATE

4-7-95

DATE

4-7-95

DATE

4-7-95

DATE

4-7-95

DATE

4-7-95

DATE

4-7-95

DATE

4-7-95

DATE

4-7-95

DATE

4-7-95

DATE

4-7-95



LATTICE HOUSE,
BAUGHURST,
HAMPSHIRE RG26 5LP.

HOOD & DOUGLAS
WEATHER RESISTANT PRODUCTS

DRAWING No.

WD1505/001

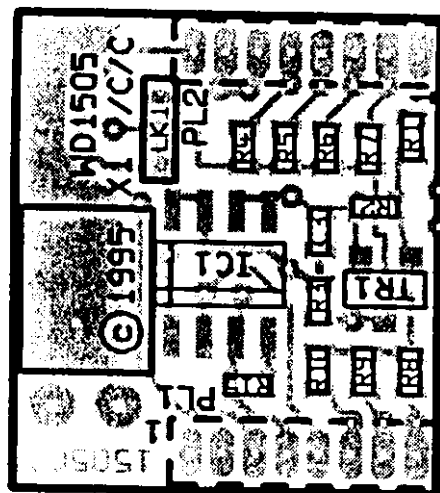
ISSUE

E

WD1505/002

MICROBIOLOGICAL ANALYSIS

THIS DRAWING IS THE PROPERTY OF PACCAR AND TOOLBOSS AND IS LOANED TO YOU WITHOUT THE EXPRESS WRITTEN PERMISSION OF PACCAR AND TOOLBOSS. IT IS NOT TO BE COPIED, REPRODUCED, OR IN ANY MANNER USED FOR ANY PURPOSE OTHER THAN THAT FOR WHICH IT IS SUPPLIED. ON COMPLETION OF THE ORDER, THE DRAWING MUST BE RETURNED.



TITLE

COMPONENT OVERLAY FOR
SX450 MICROCONTROLLER

DRAWN BY	A J MCINNES	DATE	10-8-94
----------	-------------	------	---------

CHECKED BY <i>R. L. Hargrave</i>	DATE <i>19-5-95</i>
----------------------------------	---------------------

APPROVED	DATE
<i>[Signature]</i>	11-5-73

SCALE

LATTICE HOUSE,
BAUGHURST,
BASINGSTOKE,
HAMPSHIRE PGCE

WOOD & DOUGLAS

CONFIDENTIAL

WD1505/002

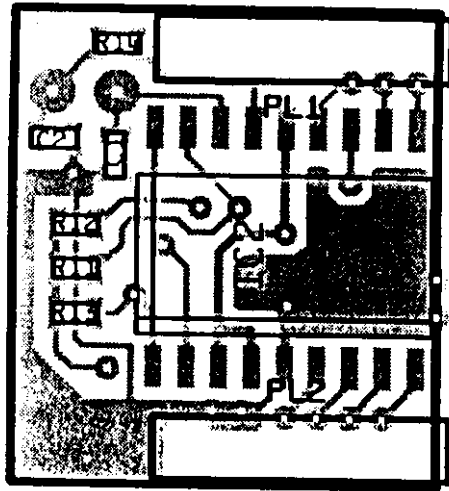
EN55

MSU

WD1505/002

WD1505/002

THIS DRAWING IS THE PROPERTY OF THE U.S. GOVERNMENT AND IS TO BE USED FOR THE EXPRESS PURPOSE OF THE CONTRACT UNDER WHICH IT WAS PREPARED. IT IS NOT TO BE REPRODUCED OR TRANSMITTED IN ANY FORM OR BY ANY MEANS, ELECTRONIC OR MECHANICAL, INCLUDING PHOTOCOPYING, RECORDING, OR BY ANY INFORMATION STORAGE AND RETRIEVAL SYSTEM, WITHOUT PERMISSION IN WRITING FROM THE U.S. GOVERNMENT. THE U.S. GOVERNMENT WILL NOT BE RESPONSIBLE FOR ANY DAMAGE TO OR LOSS OF THIS DRAWING OR FOR ANY CONSEQUENCES OF ITS USE. THE U.S. GOVERNMENT WILL NOT BE RESPONSIBLE FOR ANY DAMAGE TO OR LOSS OF THIS DRAWING OR FOR ANY CONSEQUENCES OF ITS USE. THE U.S. GOVERNMENT WILL NOT BE RESPONSIBLE FOR ANY DAMAGE TO OR LOSS OF THIS DRAWING OR FOR ANY CONSEQUENCES OF ITS USE.



REVISIONS

REV.	DESCRIPTION	DATE
1	INITIAL DESIGN	10-8-94
2	REVISION 1	10-8-94

TITLE

COMPONENT OVERLAY FOR
SX450 MICROCONTROLLER

DRAWN BY A J HIGGINS DATE 10-8-94

CHECKED BY R. H. HIGGINS DATE 10-8-94

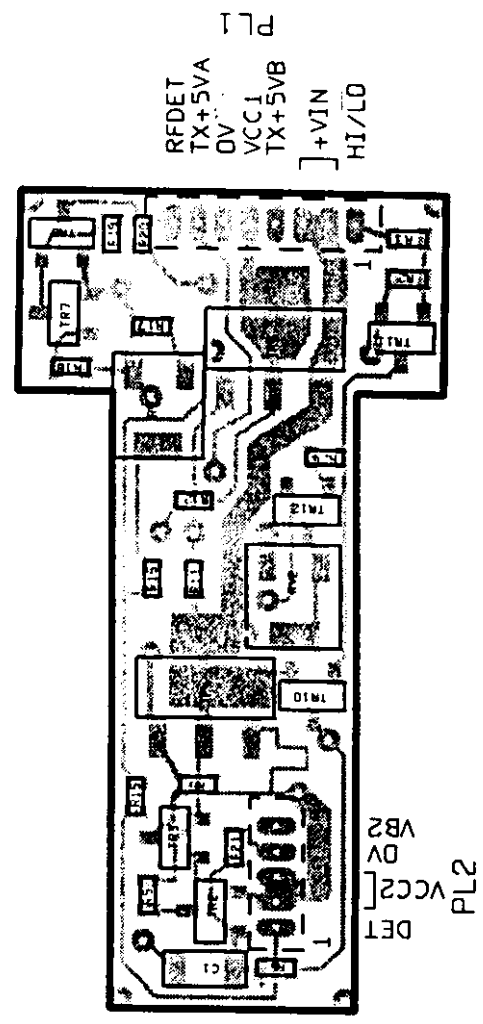
APPROVED DATE 10-8-94

SCALE DIMS. IN mm

WD

WD1505/002
U.S. GOVERNMENT PRINTING OFFICEWD1505/002
OF 2
C

THIS DRAWING IS THE PROPERTY OF WOOD MAC DOUGLAS AND MAY NOT BE REPRODUCED OR TRANSMITTED IN ANY FORM OR BY ANY MEANS, ELECTRONIC OR MECHANICAL, WITHOUT THE WRITTEN CONSENT OF WOOD MAC DOUGLAS. IT IS SUPPLIED ON COMPLETION OF THE ORDER. THE DRAWING MUST BE RETURNED.



NOTE:
1. ALL DIMENSIONS ON TRACK SIDE.

TITLE
**COMPONENT OVERLAY FOR
SX450 POWER CONTROL (0.5W)**

AMENDMENTS	
ISSUE	MODIFICATION No. DATE
B	M002141 4-95

DRAWN BY	A J MCINNES	DATE	21-11-94
CHECKED BY	M Dorner	DATE	23-5-95
APPROVED		DATE	23-5-95
SCALE		DIMS.	IN

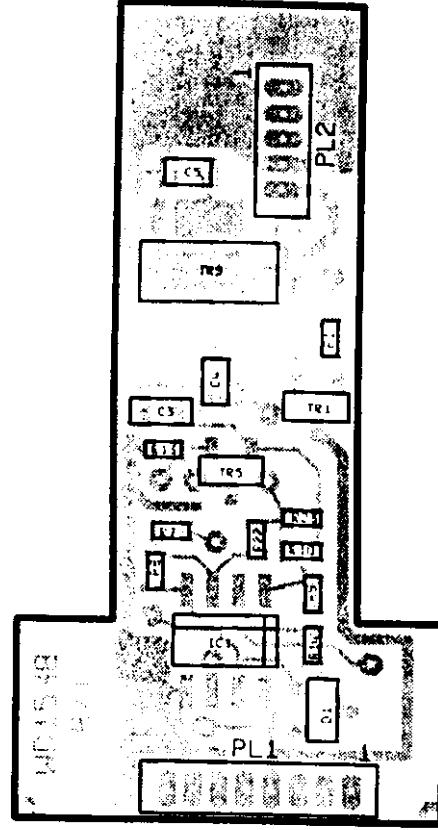
LATTICE HOUSE,
BAUGHURST,
BASINGSTOKE,
HAMPSHIRE RG24 0EP.
WOOD MAC DOUGLAS
COMMUNICATIONS PRODUCTS

DRAWING No. **WD1538/002** SET 1 OF 2
SHEET **B**

WD1538/002

PROTECTIVE PROTECTION

THIS DRAWING IS THE PROPERTY OF MDC AND SHOULD BE RETURNED TO THE ISSUING OFFICE WITHOUT DELAY. IF THIS DRAWING IS COPIED OR REPRODUCED IN WHOLE OR IN PART OR USED FOR ANY PURPOSE OTHER THAN THAT FOR WHICH IT IS SUPPLIED, ON COMPLETION OF THE ORDER, THE DRAWING MUST BE RETURNED.



WD1538/002

TITLE COMPONENT OVERLAY FOR
SX450 POWER CONTROL (0.5W)

AMENDMENTS		DATE
ISSUE	MODIFICATION	DATE
1	1000-141	4-95
2		
3		
4		
5		
6		
7		
8		
9		
10		

DRAWN BY A J MCINNES DATE 21-11-94
CHECKED BY M. DOWD DATE 23-5-95
APPROVED A J MCINNES DATE 23-5-95
SCALE 0.25X IN

LATILE ENGINE,
BAUGHURST,
BASINGSTON,
HAMPSHIRE RG24 0AF. AND OUR COMMUNICATIONS TO YOU.

WD1538/002 SHT 2 OF 2 B

