

Cct Ref.	Value	Description	Rat.	Tol %	Racal-Dana Part Number
<u>Capacitors F</u>			<u>V</u>		
C76	33 μ	Electrolytic	16		21-0682
C77	100n	Ceramic	12	-20+80	21-1616
C78		Not Used			
C79	100n	Ceramic	12	-20+80	21-1616
C80	100n	Ceramic	12	-20+80	21-1616
C81	100n	Ceramic Monobloc	50	20	21-1708
C82	33 μ	Electrolytic	16		21-0682
C83	100n	Ceramic	12	-20+80	21-1616
C84		Not Used			
C85	100n	Ceramic	12	-20+80	21-1616
C86	100n	Ceramic	12	-20+80	21-1616
C87	100n	Ceramic Monobloc	50	20	21-1708
C88	33 μ	Electrolytic	16		21-0682
C89	100n	Ceramic	12	-20+80	21-1616
C90		Not Used			
C91	100n	Ceramic	12	-20+80	21-1616
C92	100n	Ceramic	12	-20+80	21-1616
C93	100n	Ceramic Monobloc	50	20	21-1708
C94	33 μ	Electrolytic	16		21-0682
C95	100n	Ceramic	12	-20+80	21-1616
C96		Not Used			
C97	100n	Ceramic	12	-20+80	21-1616
C98	100n	Ceramic	12	-20+80	21-1616
C99	100n	Ceramic Monobloc	50	20	21-1708
C100	33 μ	Electrolytic	16		21-0682
C101	100n	Ceramic	12	-20+80	21-1616
C102		Not Used			
C103	100n	Ceramic	12	-20+80	21-1616
C104	100n	Ceramic	12	-20+80	21-1616
C105	100n	Ceramic Monobloc	50	20	21-1708
C106	33 μ	Electrolytic	16		21-0682
C107	100n	Ceramic	12	-20+80	21-1616
C108		Not Used			
C109	100n	Ceramic	12	-20+80	21-1616
C110	100n	Ceramic	12	-20+80	21-1616
C111	1.8n	Ceramic	500	20	21-1535
C112	6800 μ	Electrolytic	16	-10+30	21-0668
C113	2200 μ	Electrolytic	25	-10+30	21-0665
C114	6.8 μ	Electrolytic	25		21-0691
C115	6.8 μ	Electrolytic	25		21-0691

Cct Ref.	Value	Description	Rat.	Tol %	Racal-Dana Part Number
C116	100n	Ceramic	12	-20+80	21-1616
C117	100n	Ceramic	25	-20+80	21-1551
C118	10n	Ceramic	25	-20+80	21-1545
C119	10n	Ceramic	25	-20+80	21-1545
C120	10n	Ceramic	25	-20+80	21-1545
C121	100n	Ceramic Monobloc	50	20	21-1708
C122	10n	Ceramic	25	-20+80	21-1545
C123	33μ	Electrolytic	16		21-0682
C124	33μ	Electrolytic	16		21-0682
C125	33μ	Electrolytic	16		21-0682
C126	33μ	Electrolytic	16		21-0682
C127	33μ	Electrolytic	16		21-0682
C128	33μ	Electrolytic	16		21-0682
C129	33μ	Electrolytic	16		21-0682
C130	33μ	Electrolytic	16		21-0682
C131	33μ	Electrolytic	16		21-0682
C132	100n	Ceramic Monobloc	50	20	21-1708
C133	100n	Ceramic Monobloc	50	20	21-1708
C134	100n	Ceramic Monobloc	50	20	21-1708
C135	100n	Ceramic Monobloc	50	20	21-1708
C136	100n	Ceramic Monobloc	50	20	21-1708
C137	100n	Ceramic Monobloc	50	20	21-1708
C138	100n	Ceramic Monobloc	50	20	21-1708
C139	100n	Ceramic Monobloc	50	20	21-1708
C140	100n	Ceramic Monobloc	50	20	21-1708
C141	6.8μ	Electrolytic	25		21-0691
C142	6.8μ	Electrolytic	25		21-0691
C143	6.8μ	Electrolytic	25		21-0691
C144	100n	Ceramic	25	-20+80	21-1551
C145	6.8μ	Electrolytic	25		21-0691
C146	100n	Ceramic	25	-20+80	21-1551
C147	220μ	Electrolytic	25	20	21-0686
C148	6.8μ	Electrolytic	25		21-0691
C149	220μ	Electrolytic	25	20	21-0686
C150	220μ	Electrolytic	25	20	21-0686
C151	220μ	Electrolytic	25	20	21-0686
C152	220μ	Electrolytic	25	20	21-0686
C153	100μ	Electrolytic	25	20	21-0790
C154	33μ	Electrolytic	16		21-0682

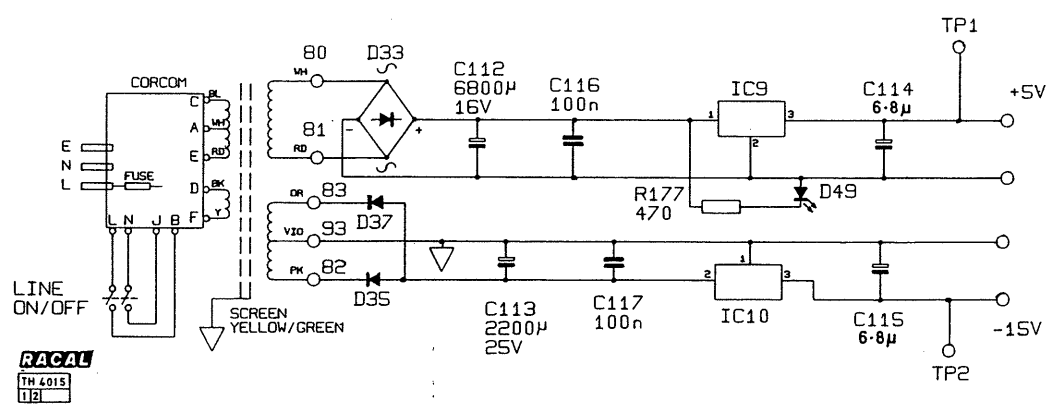
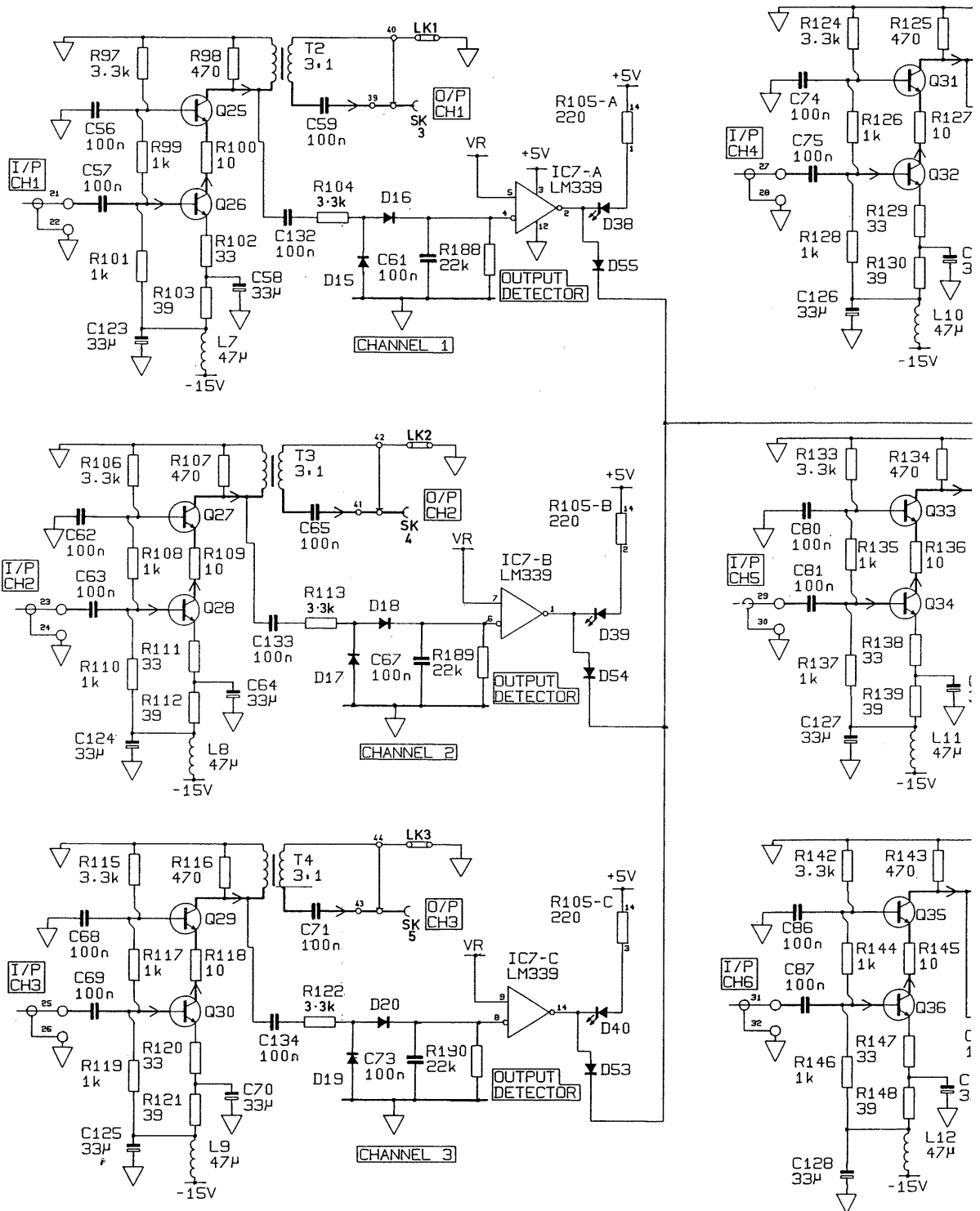
Cct Ref.	Value	Description	Rat.	Tol %	Racal-Dana Part Number
<u>Diodes</u>					
D1		Silicon (IN4149)			22-1029
D2		Silicon (IN4149)			22-1029
D3		Silicon (IN4149)			22-1029
D4		Silicon (IN4149)			22-1029
D5		Silicon (IN4149)			22-1029
D6		Silicon (IN4149)			22-1029
D7		Silicon (IN4149)			22-1029
D8		Silicon (IN4149)			22-1029
D9		Silicon (IN4149)			22-1029
D10		Silicon (IN4149)			22-1029
D11		Silicon (IN4149)			22-1029
D12		Silicon (IN4149)			22-1029
D13		Varactor (MV1642)			22-1042
D14		Silicon (IN4149)			22-1029
D15		Silicon (IN4149)			22-1029
D16		Silicon (IN4149)			22-1029
D17		Silicon (IN4149)			22-1029
D18		Silicon (IN4149)			22-1029
D19		Silicon (IN4149)			22-1029
D20		Silicon (IN4149)			22-1029
D21		Silicon (IN4149)			22-1029
D22		Silicon (IN4149)			22-1029
D23		Silicon (IN4149)			22-1029
D24		Silicon (IN4149)			22-1029
D25		Silicon (IN4149)			22-1029
D26		Silicon (IN4149)			22-1029
D27		Silicon (IN4149)			22-1029
D28		Silicon (IN4149)			22-1029
D29		Silicon (IN4149)			22-1029
D30		Silicon (IN4149)			22-1029
D31		Silicon (IN4149)			22-1029
D32		Silicon (IN4149)			22-1029
D33		Bridge Rectifier (VS.248)			22-1650
D34		Not Used			
D35		Rectifier (IN4009)			22-1602
D36		Not Used			
D37		Rectifier (IN4009)			22-1602
D38		LED (ESBR 5531)			26-5022
D39		LED (ESBR 5531)			26-5022
D40		LED (ESBR 5531)			26-5022

Cct Ref.	Value	Description	Rat.	Tol %	Racal-Dana Part Number
<u>Diodes</u>					
D41		LED (ESBR 5531)			26-5022
D42		LED (ESBR 5531)			26-5022
D43		LED (ESBR 5531)			26-5022
D44		LED (ESBR 5531)			26-5022
D45		LED (ESBR 5531)			26-5022
D46		LED (ESBR 5531)			26-5022
D47		LED (ESBR 5531)			26-5022
D48		LED (ESBR 5531)			26-5022
D49		LED (ESBR 5531)			26-5022
D50		Silicon (IN4149)			22-1029
D51		Silicon (IN4149)			22-1029
D52		Silicon (IN4149)			22-1029
D53		Silicon (IN4149)			22-1029
D54		Silicon (IN4149)			22-1029
D55		Silicon (IN4149)			22-1029
D56		Silicon (IN4149)			22-1029
D57		Silicon (IN4149)			22-1029
D58		Silicon (IN4149)			22-1029
D59		Silicon (IN4149)			22-1029
<u>Integrated Circuits</u>					
IC1		74LS132			22-4582
IC2		74LS00			22-4531
IC3		TL 082			22-4240
IC4		74LS00			22-4531
IC5		74LS74			22-4534
IC6		74LS90			22-4536
IC7		LM339			22-4249
IC8		LM339			22-4249
IC9		7805			22-4222
IC10		7915			22-4209
IC11		74S00			22-4505
IC12		LM339			22-4249
<u>Transistors</u>					
Q1		2N2369			22-6017
Q2		2N2369			22-6017
Q3		2N2369			22-6017
Q4		2N2369			22-6017
Q5		2N2369			22-6017

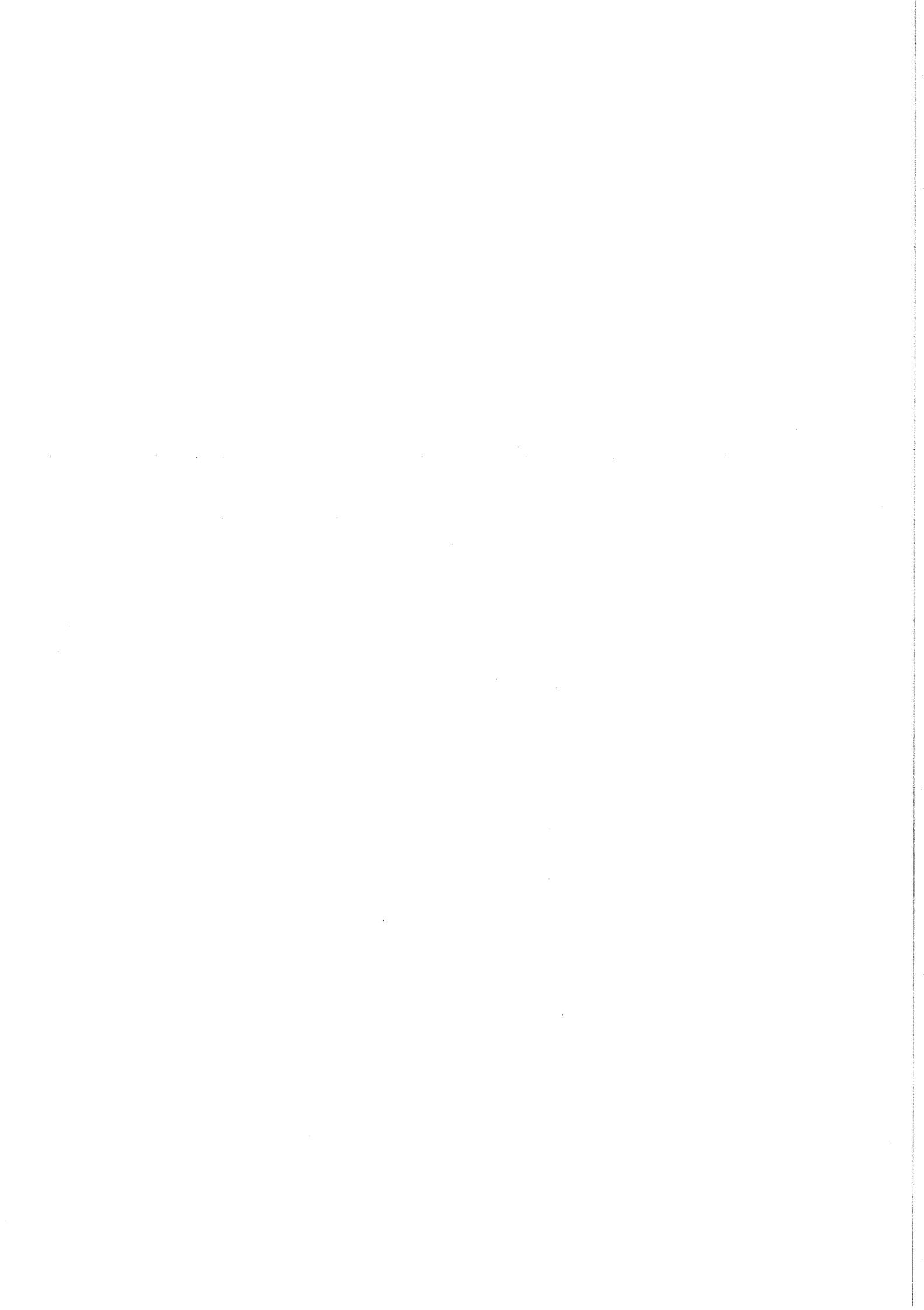
Cct Ref.	Value	Description	Rat.	Tol %	Racal-Dana Part Number
<u>Transistors</u>					
Q6		BFX48			22-6110
Q7		2N2369			22-6017
Q8		MPS-A12			22-6133
Q9		BFX48			22-6110
Q10		2N2369			22-6017
Q11		2N2369			22-6017
Q12		BFX48			22-6110
Q13		2N2369			22-6017
Q14		2N2369			22-6017
Q15		2N2369			22-6017
Q16		MPS3640			22-6018
Q17		2N2369			22-6017
Q18		MPS3640			22-6018
Q19		2N2369			22-6017
Q20		MPS3640			22-6018
Q21		2N2369			22-6017
Q22		2N2369			22-6017
Q23		2N2369			22-6017
Q24		2N2369			22-6017
Q25		ZTX313			22-6079
Q26		ZTX313			22-6079
Q27		ZTX313			22-6079
Q28		ZTX313			22-6079
Q29		ZTX313			22-6079
Q30		ZTX313			22-6079
Q31		ZTX313			22-6079
Q32		ZTX313			22-6079
Q33		ZTX313			22-6079
Q34		ZTX313			22-6079
Q35		ZTX313			22-6079
Q36		ZTX313			22-6079
Q37		ZTX313			22-6079
Q38		ZTX313			22-6079
Q39		ZTX313			22-6079
Q40		ZTX313			22-6079
Q41		ZTX313			22-6079
Q42		ZTX313			22-6079
Q43		2N2369			22-6017
Q44		2N2369			22-6017

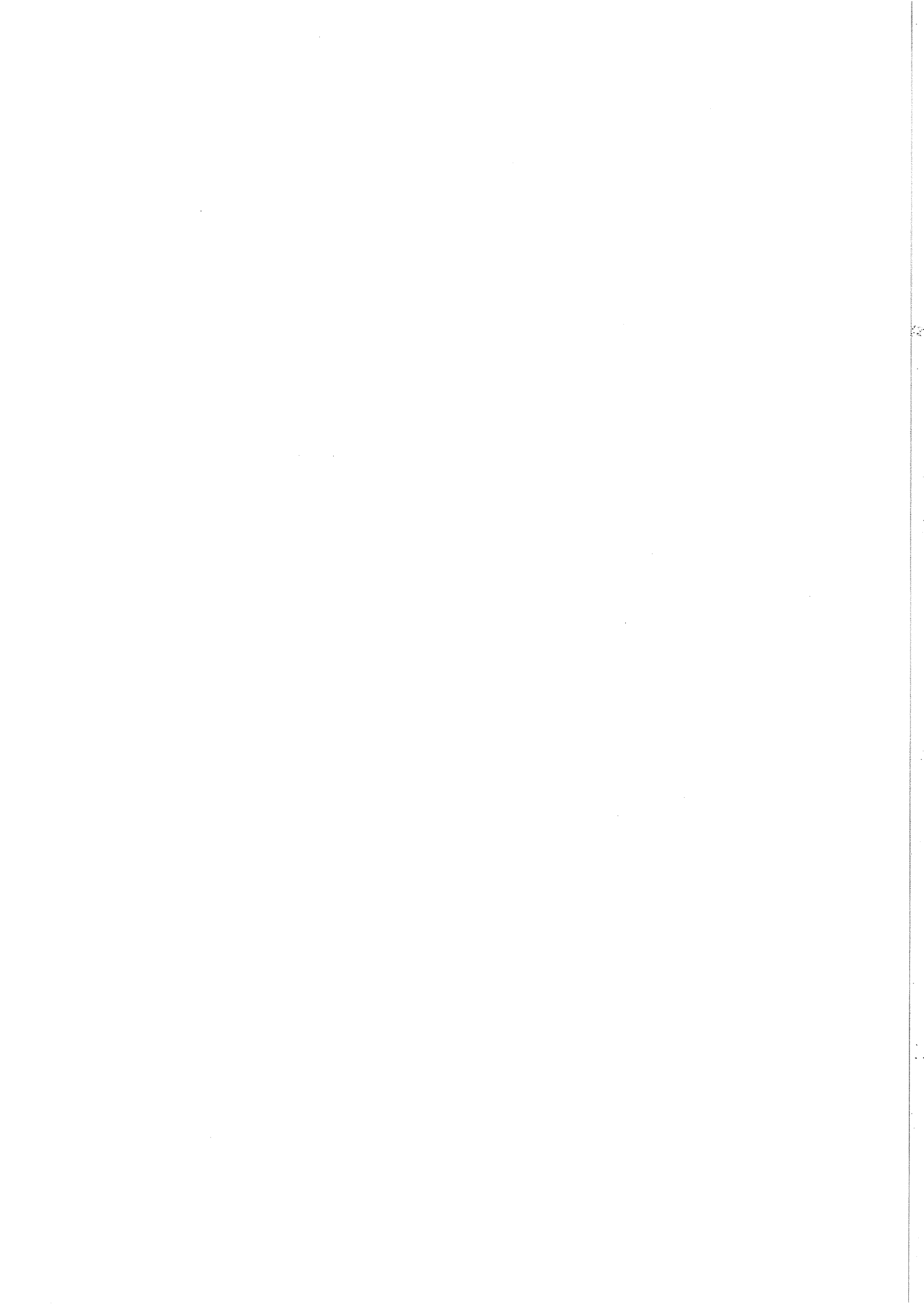
Cct Ref.	Value	Description	Rat.	Tol %	Racal-Dana Part Number
<u>Inductors H</u>					
L1	2.2 μ	Choke, sub-miniature		10	23-7010
L2	3.3 μ	Choke, sub-miniature		10	23-7011
L3	3.3 μ	Choke, sub-miniature		10	23-7011
L4	1.5 μ	Choke, sub-miniature		10	23-7009
L5	3.3 μ	Choke, sub-miniature		10	23-7011
L6	15 μ	Choke, sub-miniature		10	23-7015
L7	47 μ	Choke, sub-miniature		10	23-7018
L8	47 μ	Choke, sub-miniature		10	23-7018
L9	47 μ	Choke, sub-miniature		10	23-7018
L10	47 μ	Choke, sub-miniature		10	23-7018
L11	47 μ	Choke, sub-miniature		10	23-7018
L12	47 μ	Choke, sub-miniature		10	23-7018
L13	47 μ	Choke, sub-miniature		10	23-7018
L14	47 μ	Choke, sub-miniature		10	23-7018
L15	47 μ	Choke, sub-miniature		10	23-7018
L16	47 μ	Choke, sub-miniature		10	23-7018
L17	47 μ	Choke, sub-miniature		10	23-7018
L18	47 μ	Choke, sub-miniature		10	23-7018
<u>Transformers</u>					
T1		Transformer to Racal-Dana specification			17-3226
T2		Transformer to Racal-Dana specification			17-3227
T3		Transformer to Racal-Dana specification			17-3227
T4		Transformer to Racal-Dana specification			17-3227
T5		Transformer to Racal-Dana specification			17-3227
T6		Transformer to Racal-Dana specification			17-3227
T7		Transformer to Racal-Dana specification			17-3227
T8		Transformer to Racal-Dana specification			17-3227
T9		Transformer to Racal-Dana specification			17-3227
T10		Transformer to Racal-Dana specification			17-3227
<u>Miscellaneous</u>					
XL1	10 MHz	Crystal			17-2114

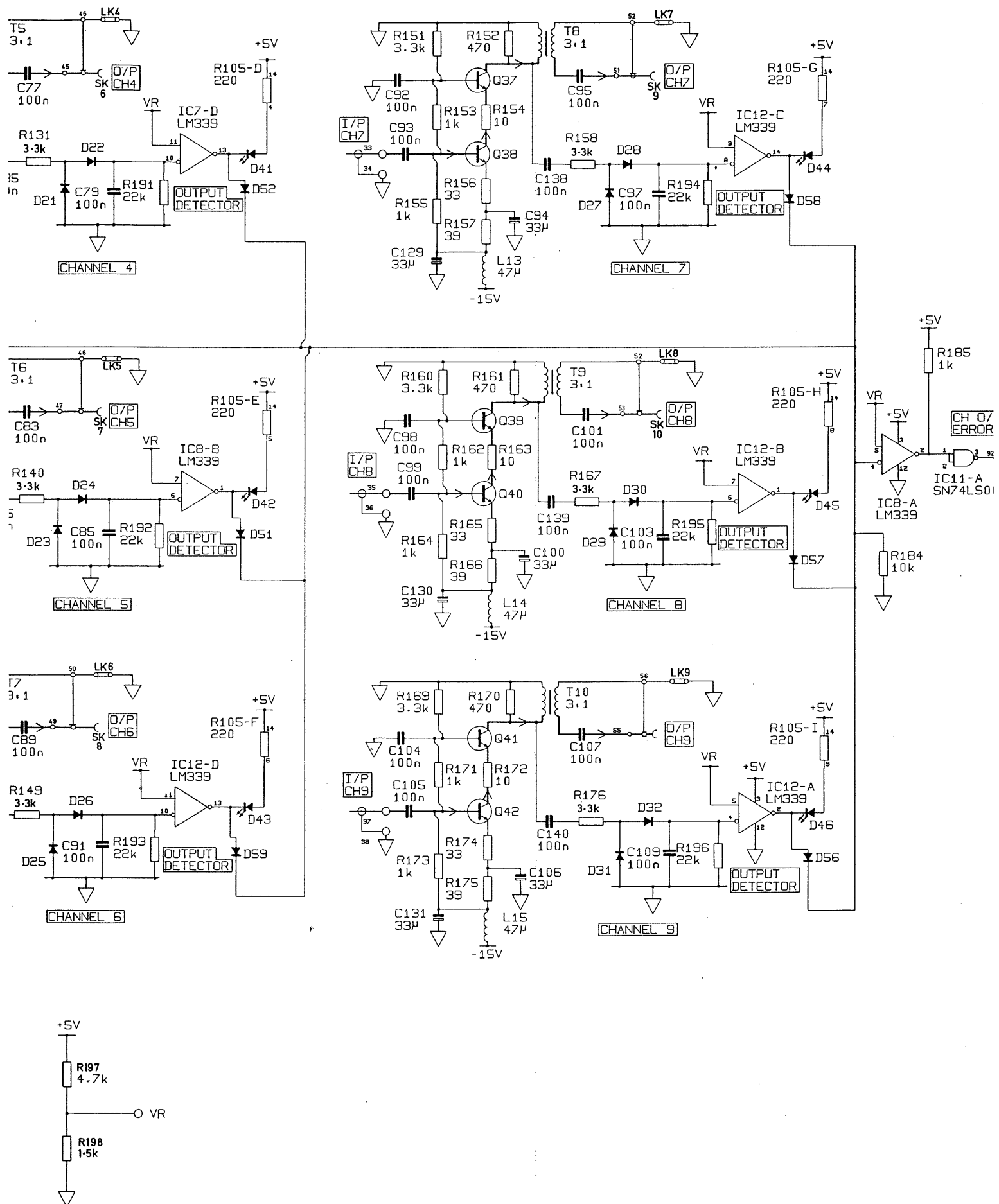




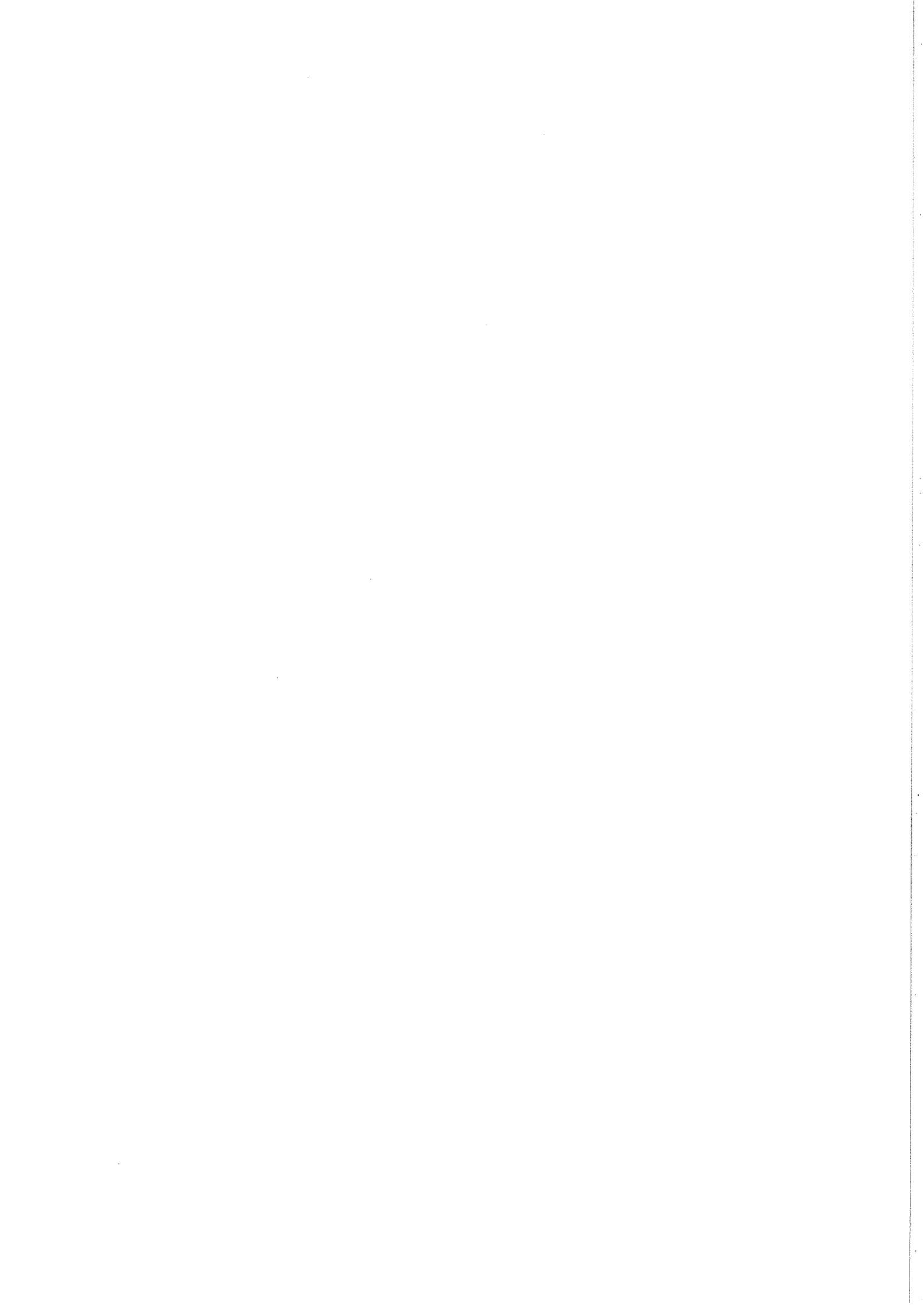
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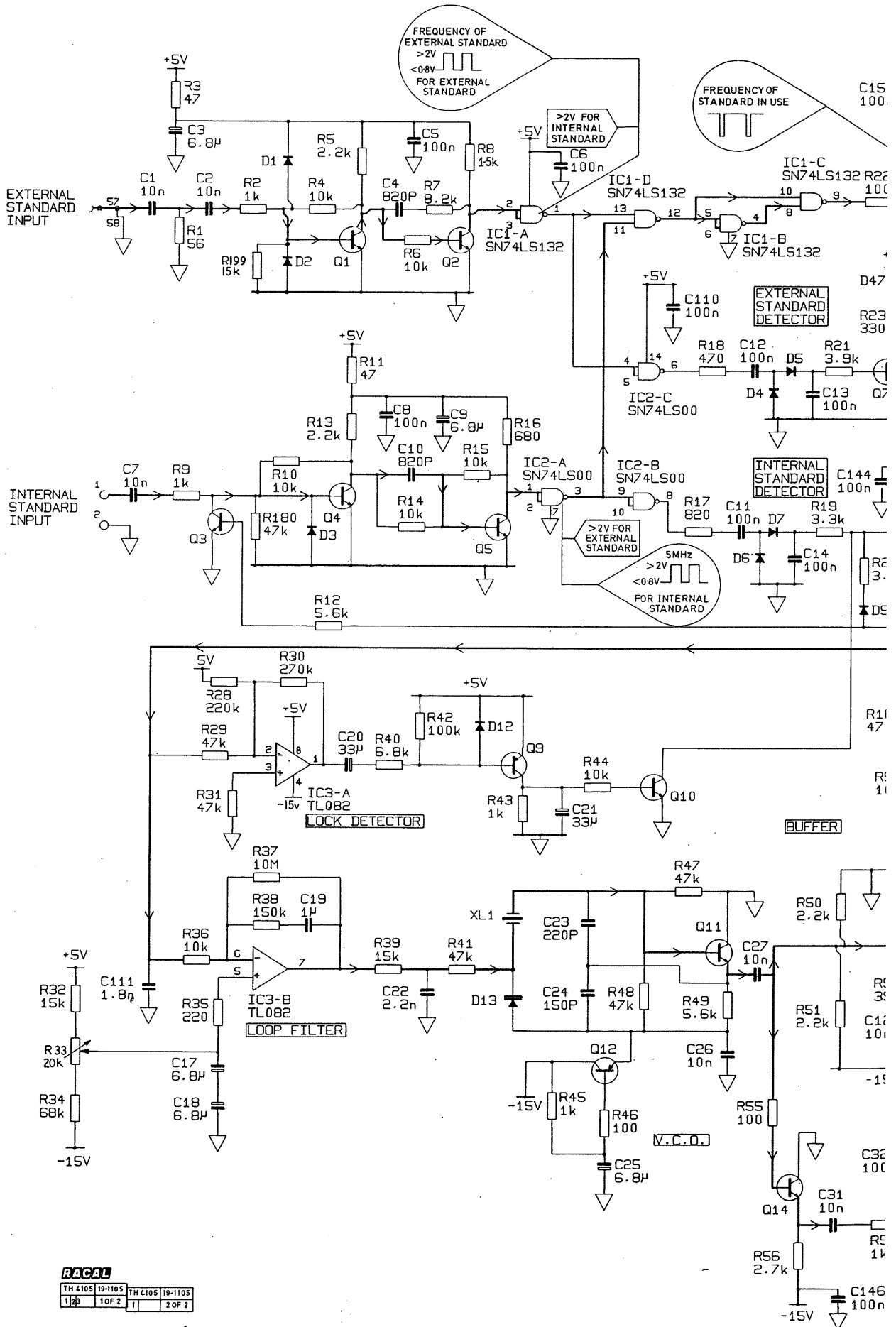


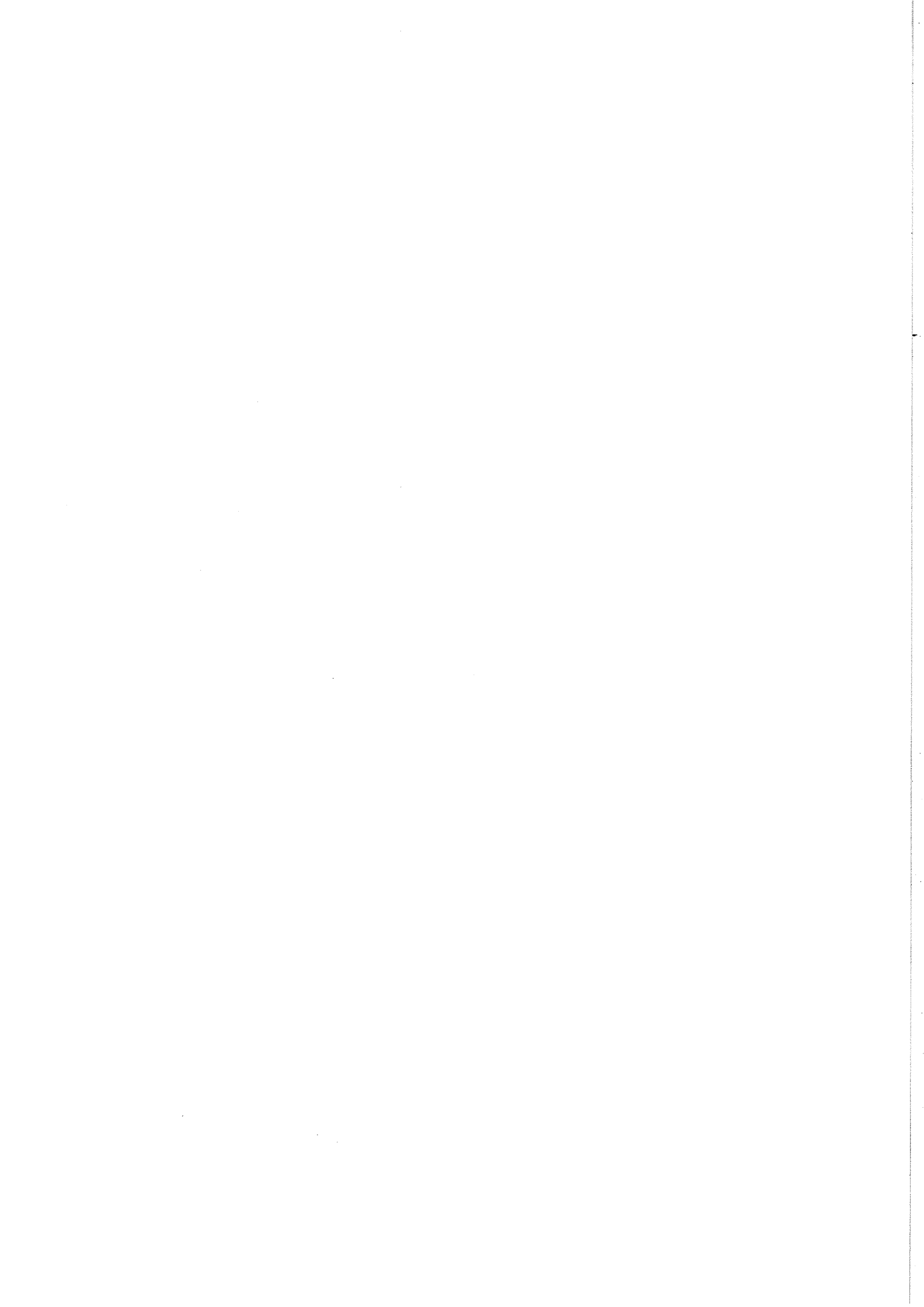


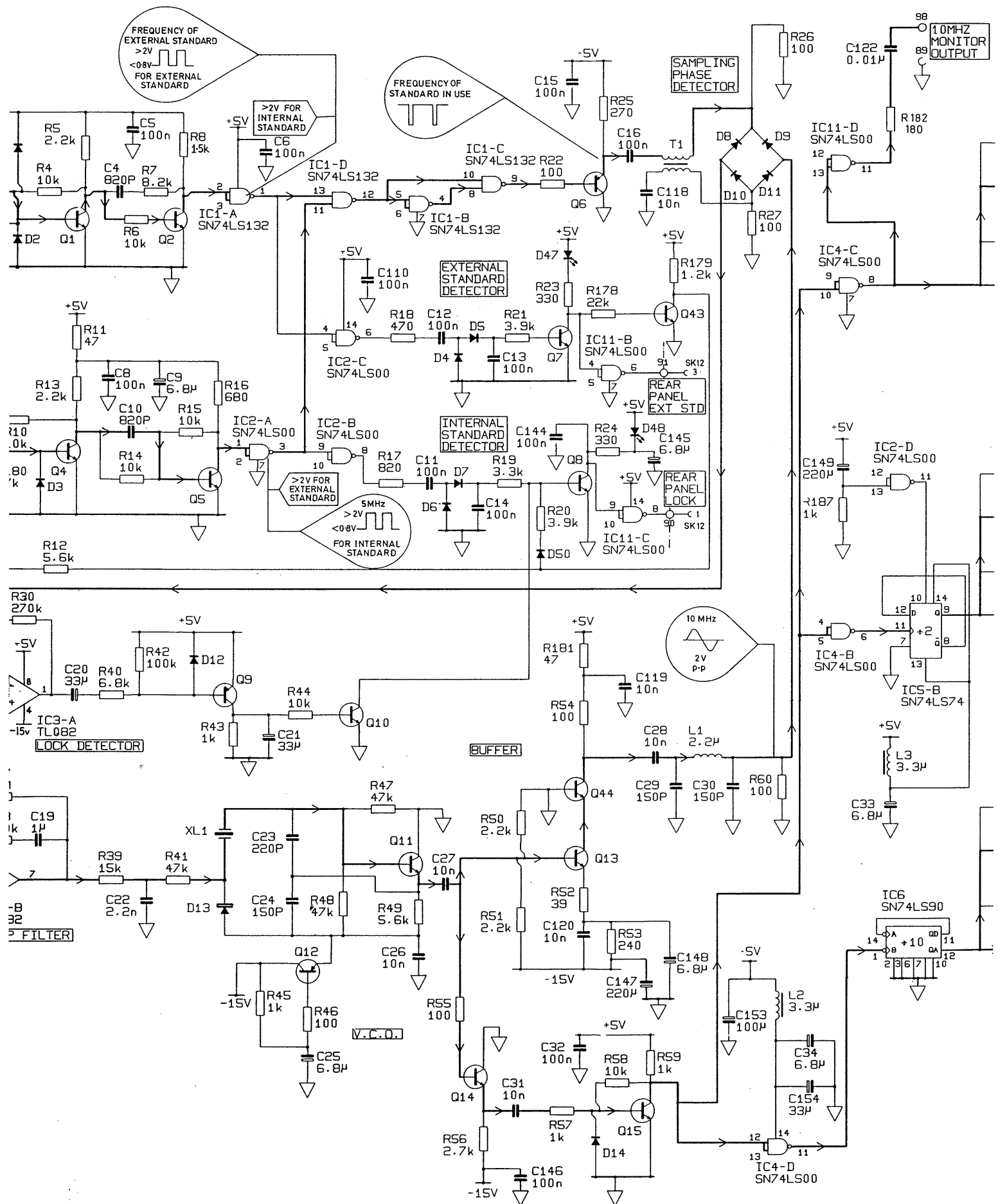


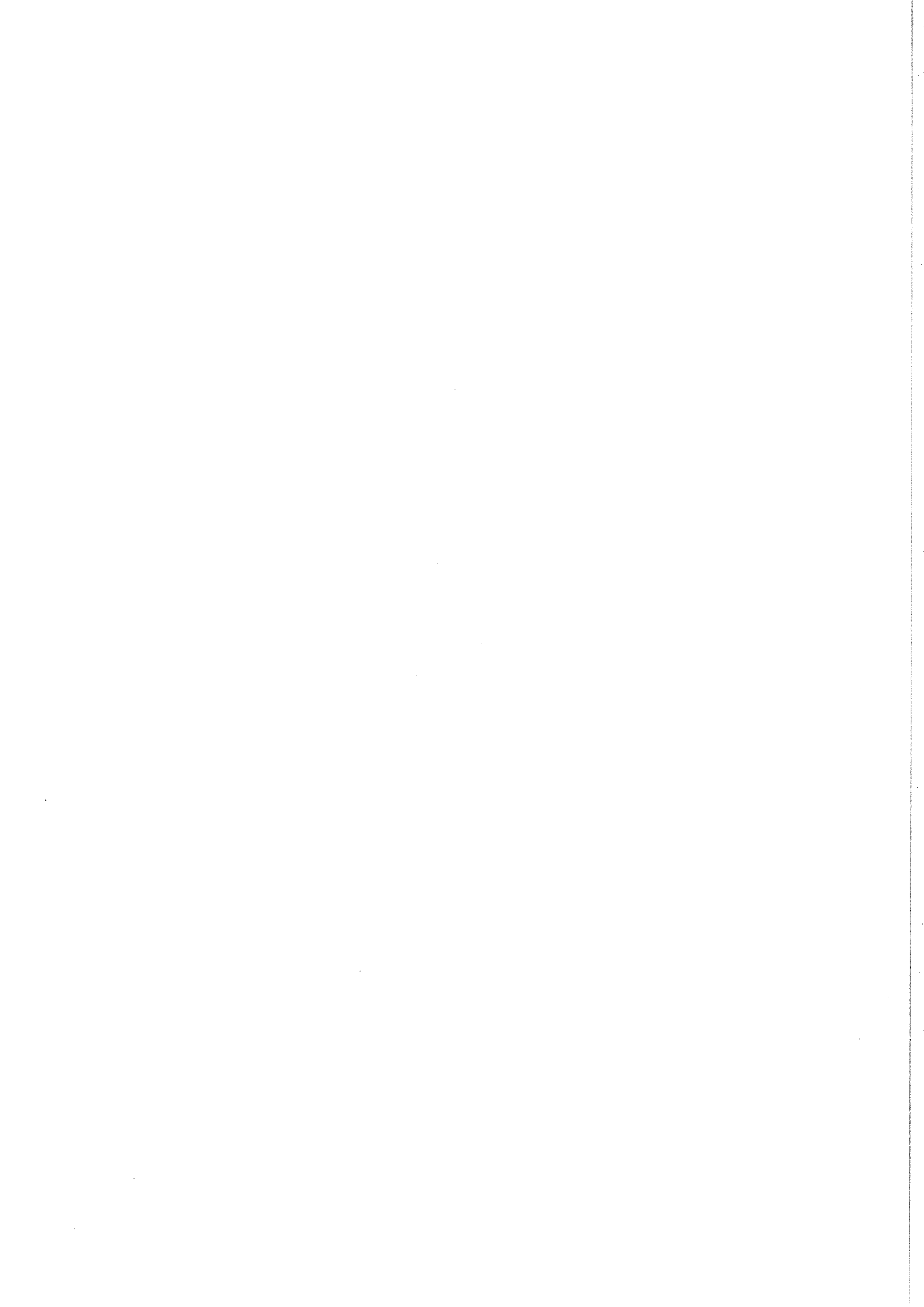
Circuit Diagram: Frequency Distribution Board 19-1105 Part 2 Fig.

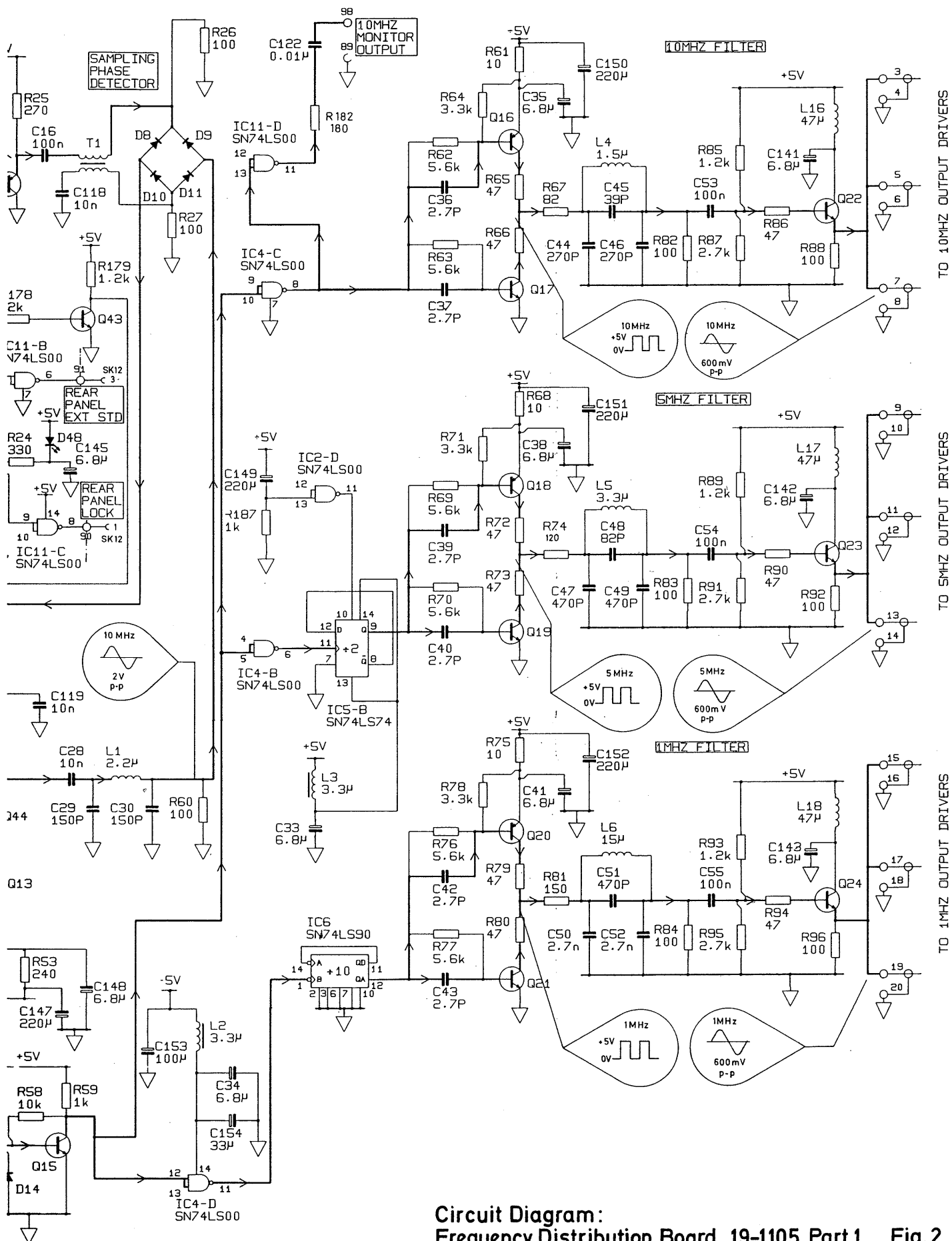




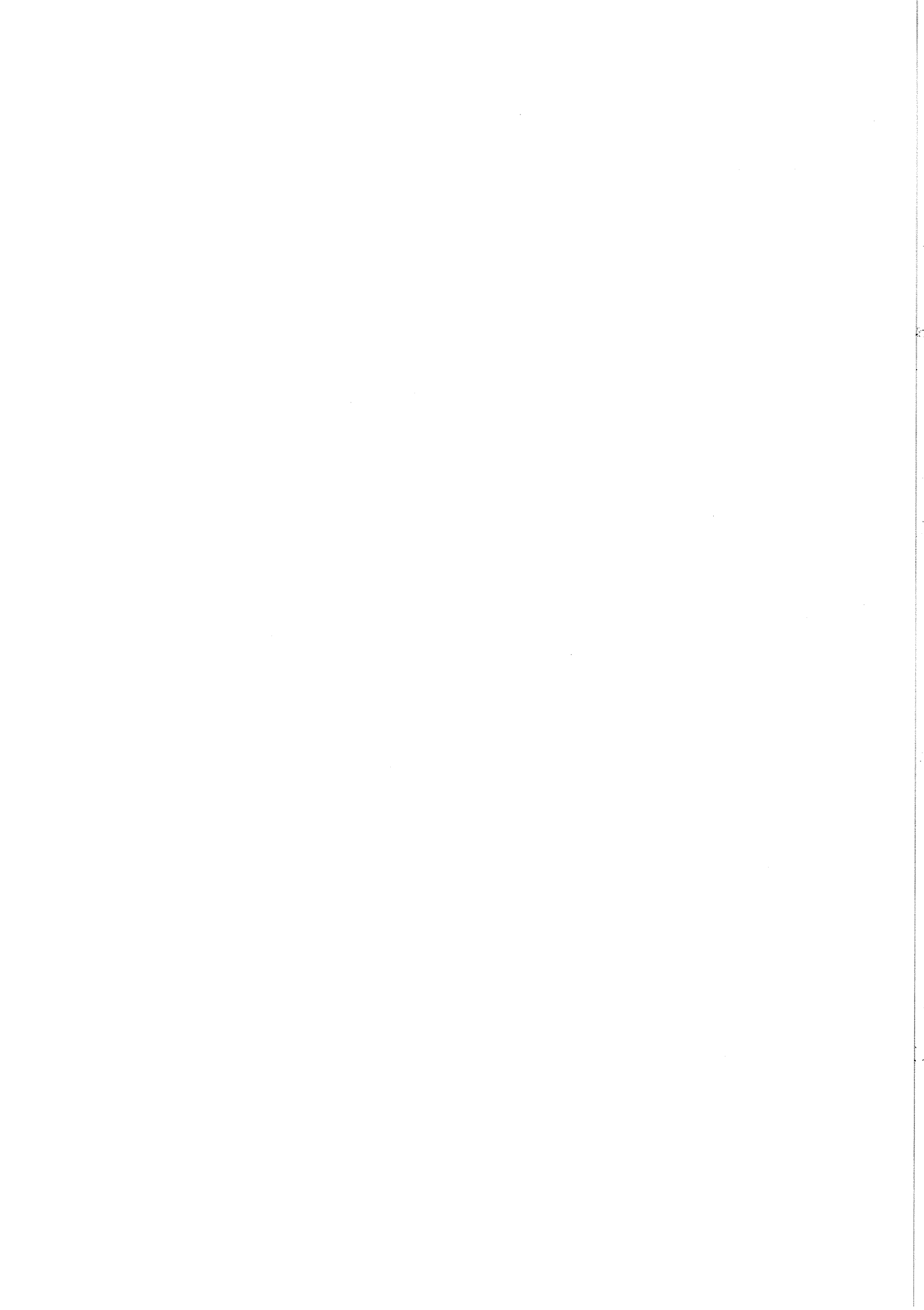


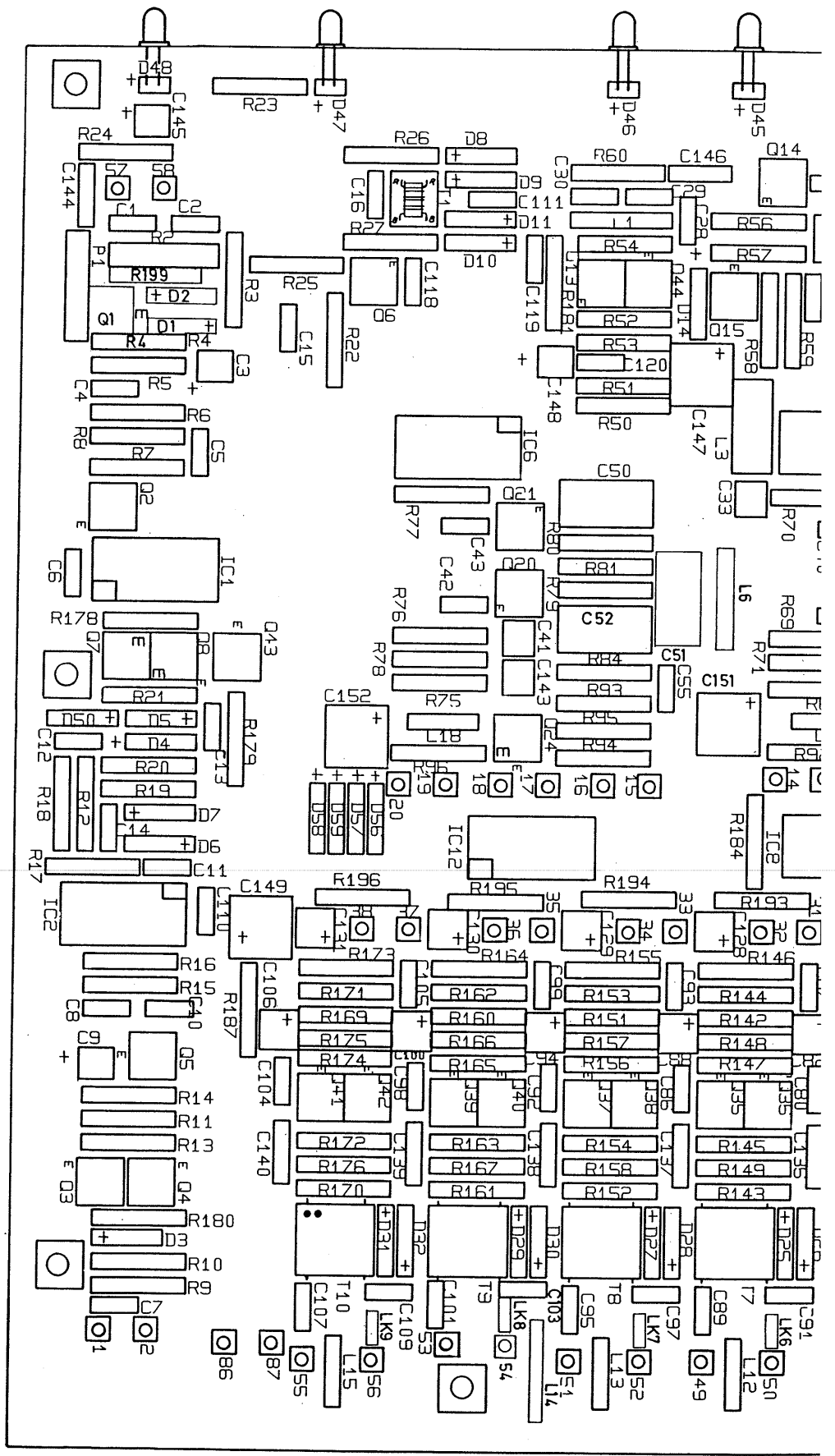






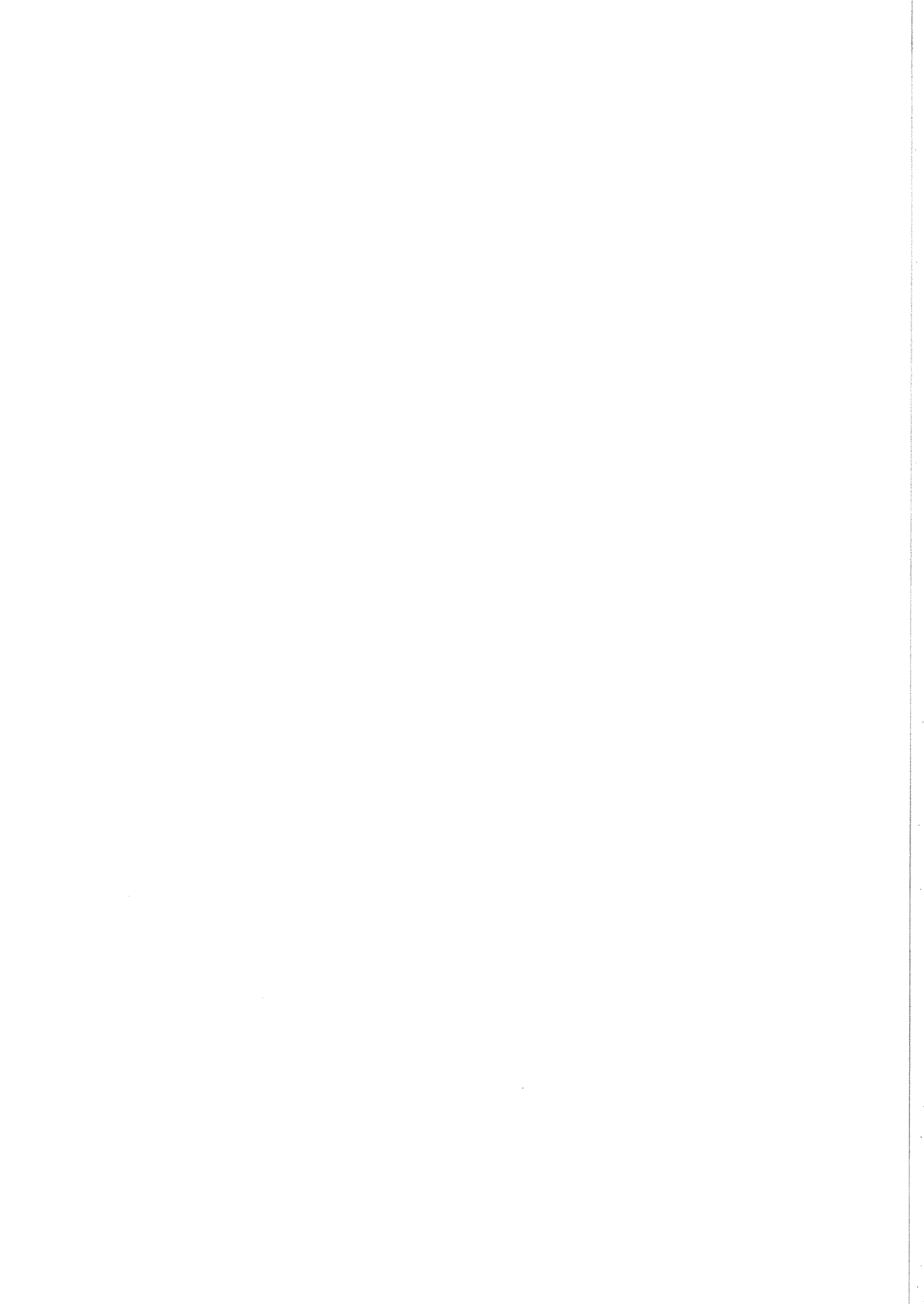
Circuit Diagram:
 Frequency Distribution Board 19-1105 Part 1 Fig. 2

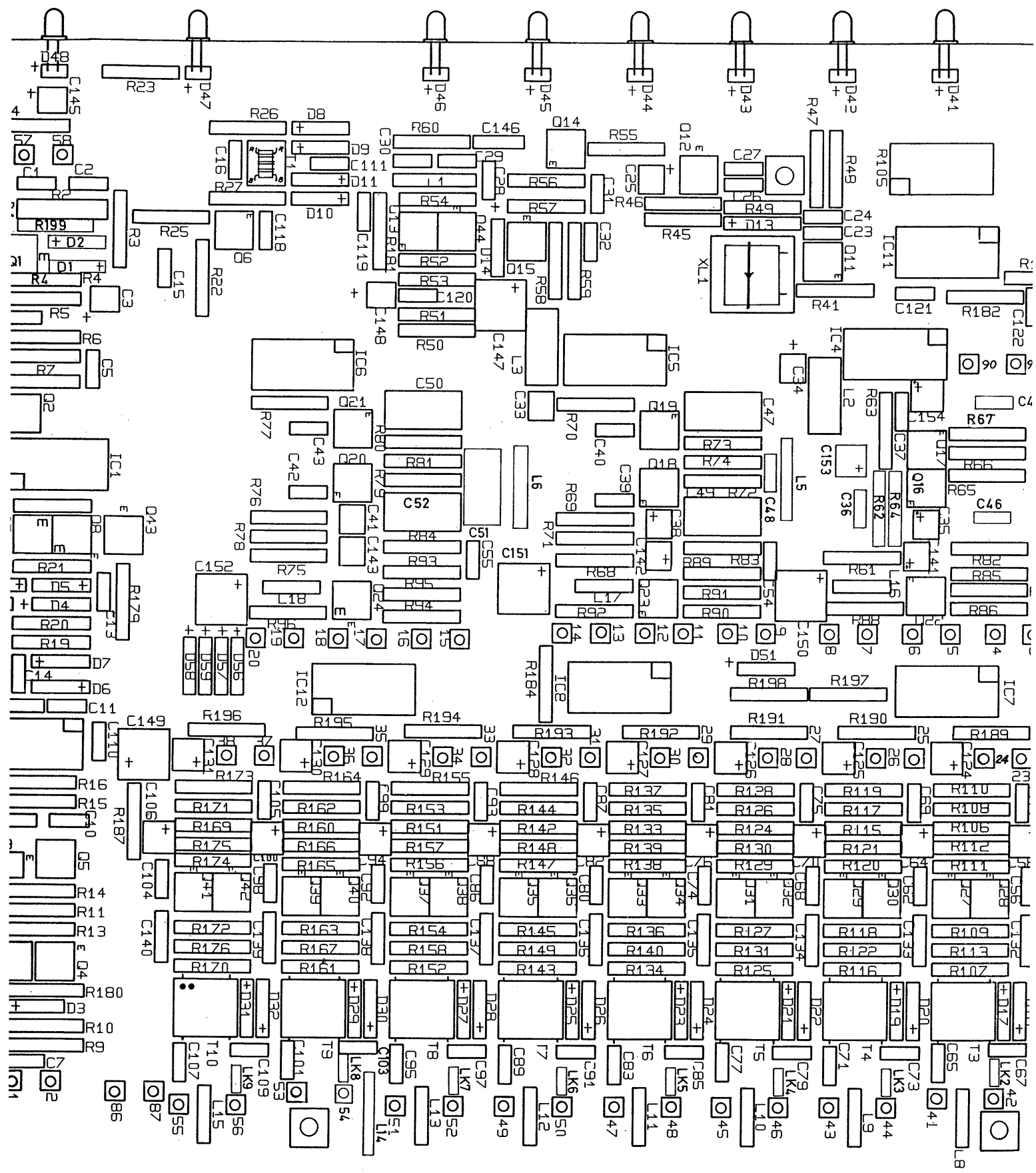


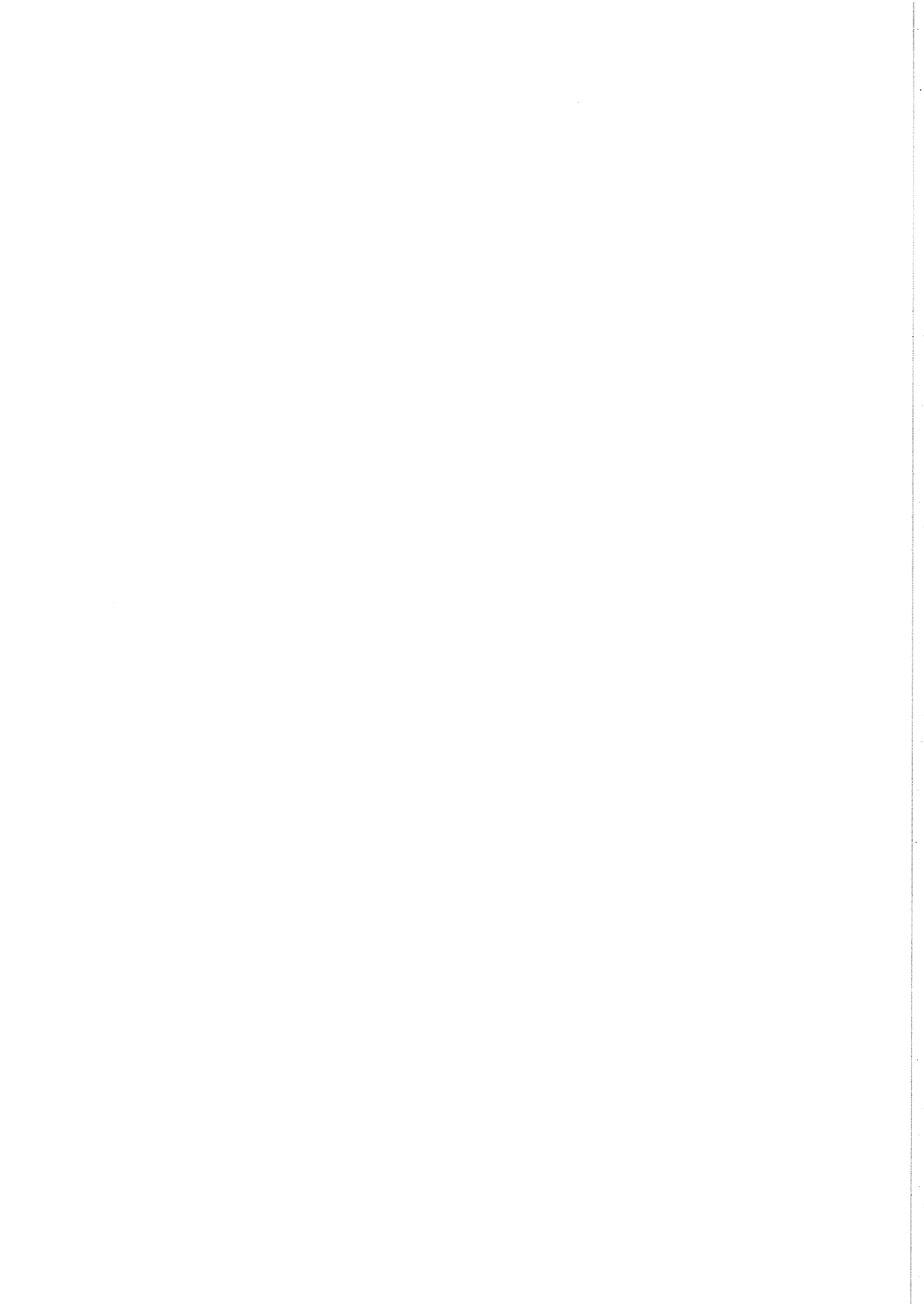


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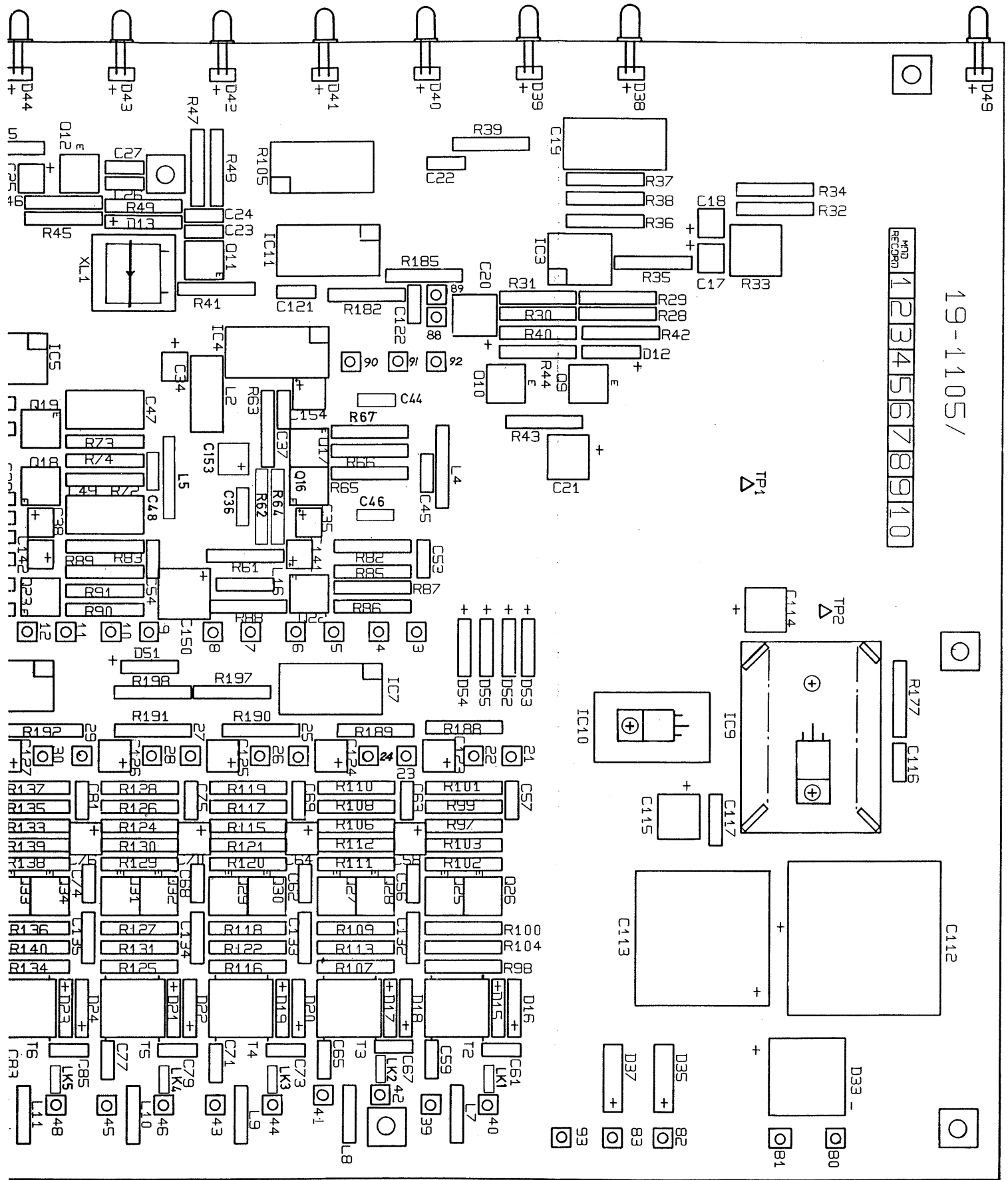






19-1105/

1 2 3 4 5 6 7 8 9 10



Component Layout:
Frequency Distribution Board 19-1105 Fi

