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M/A Com Private Radio Systems, Inc.
Model: P7100(IP) VHF Radio
FCC ID: OWDTR-0013-E
FCC & IC: Part 90 and RSS-119
RTL WO: 2002158

APPENDIX F: BLOCK DIAGRAM

Please refer to the following pages.

REVISEMENTS	SYM	DATE	POSITION	DESCRIPTION	REVISED	CHECKED	APPROVED
	1	X					
	2	X					
	3	X					
	4	X					
	5	X					

Z1
LCD MODULE

FLEX P/B

J21 (PAD)

UDC. TX	1	>
UDC. AUDIO. OUT	2	>
RX. DATA. OUT	3	>
EXT. MIC. IN	4	>
TX. DATA. IN	5	>
PTT	6	>
KPROW1	7	>
KPCOLO	8	>
KPROW2	9	>
PTT. UDC	10	>
UDC. SENSE. IN	11	>
12V. IN. FLASH	12	>
MUTE. OUT	13	>
EMER. UDC	14	>

ZEBRA-CONNECTOR

J10 (PAD)

UDC. TX	1	>
UDC. AUDIO. OUT	2	>
RX. DATA. OUT	3	>
EXT. MIC. IN	4	>
TX. DATA. IN	5	>
PTT	6	>
KPROW1	7	>
KPCOLO	8	>
KPROW2	9	>
PTT. UDC	10	>
UDC. SENSE. IN	11	>
12V. IN. FLASH	12	>
MUTE. OUT	13	>
EMER. UDC	14	>

J13

SWA+. OUT	1	>
AGND	2	>

J11 (PAD)

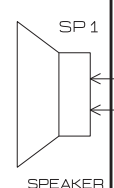
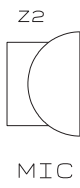
INT. MIC. HI	1	>
AGND	2	>
AGND	3	>

I/F

P1

N. C	1	>
SCL	2	>
AGND	3	>
+5V. ANALOG	4	>
VLCD	5	>
SDA	6	>
N. C	7	>
PTT. UDC	8	>
TX. DATA. IN	9	>
AGND	10	>
UDC. AUDIO. OUT	11	>
UDC. SENSE. IN	12	>
SWA+. OUT	13	>
UDC. TX	14	>
MUTE. OUT	15	>
EXT. MIC. IN	16	>
12V. IN. FLASH	17	>
EMER. UDC	18	>
RX. DATA. OUT	19	>
AGND	20	>
INT. MIC. HI	21	>
PTT	22	>
AGND	23	>
LED. G	24	>
B+	25	>
B+	26	>
LED. R	27	>
PWR. SW	28	>
KPCOLO	29	>
KPROW0	30	>
KPROW1	31	>
KPROW2	32	>
KPCOL1	33	>
KPROW4	34	>
KPCOL3	35	>
KPCOL2	36	>
AGND	37	>
SPARE	38	>
SPARE	39	>
SPARE	40	>

ZEBRA-CONNECTOR



MAIN

BATTERY

SWITCH
MODULE

1	>	CHSW. 1
2	>	CHSW. 2
3	>	CH. KEY. SEL
4	>	CHSW. 4
5	>	CHSW. 8
6	>	AGND
7	>	VOL. WIPER
8	>	PWR. SW
9	>	+5VA
10	>	SPARE

1	>	CHSW. 1
2	>	CHSW. 2
3	>	CH. KEY. SEL
4	>	CHSW. 4
5	>	CHSW. 8
6	>	AGND
7	>	VOL. WIPER
8	>	PWR. SW
9	>	+5VA
10	>	SPARE

LOGIC

RADIO

J20 1

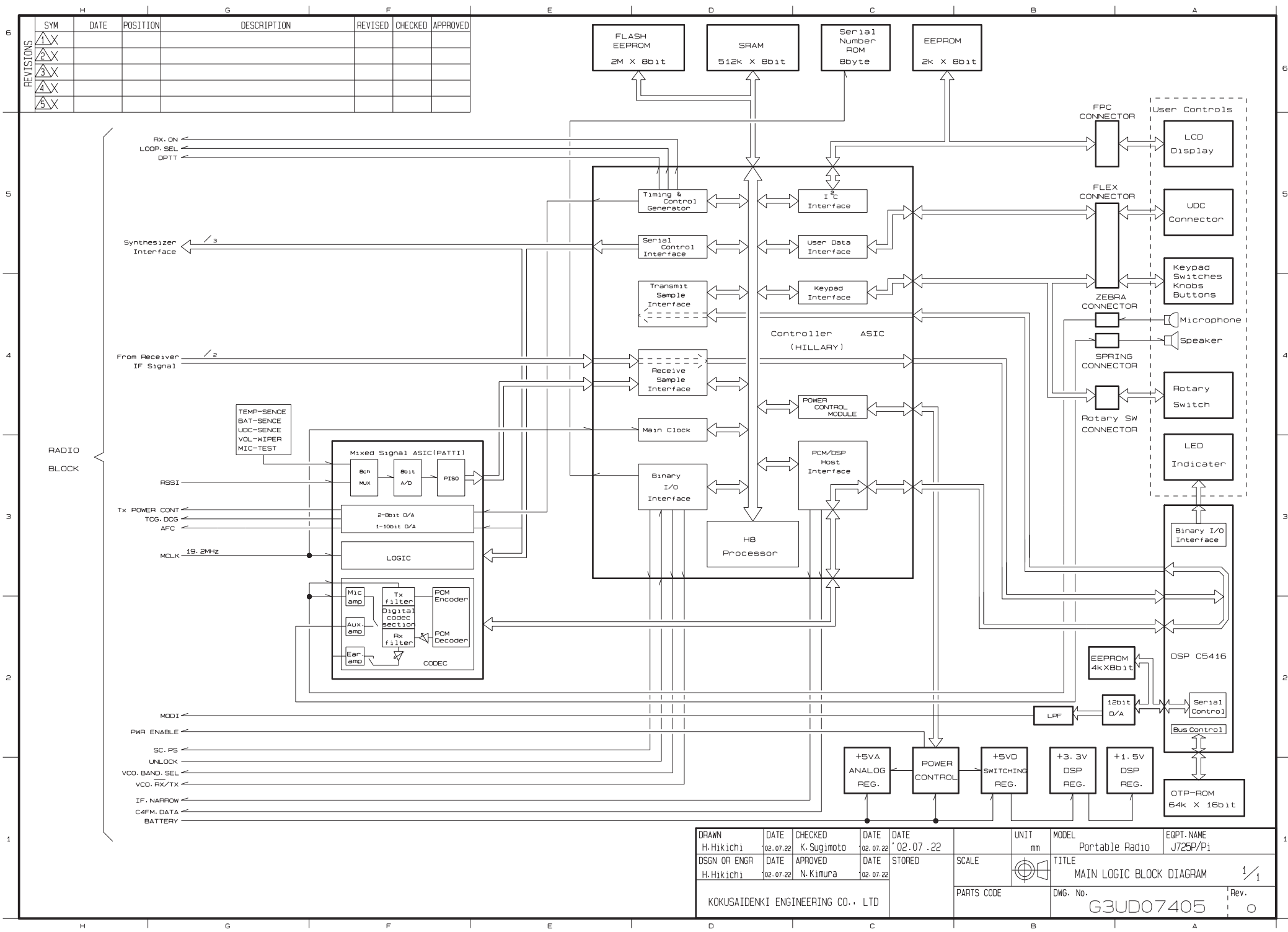
B+	1	>
BATT. ID	2	>
GND	3	>

1	>	B+
2	>	BATT. ID
3	>	GND

J4	SPKR. HI
J5	SPKR. LO



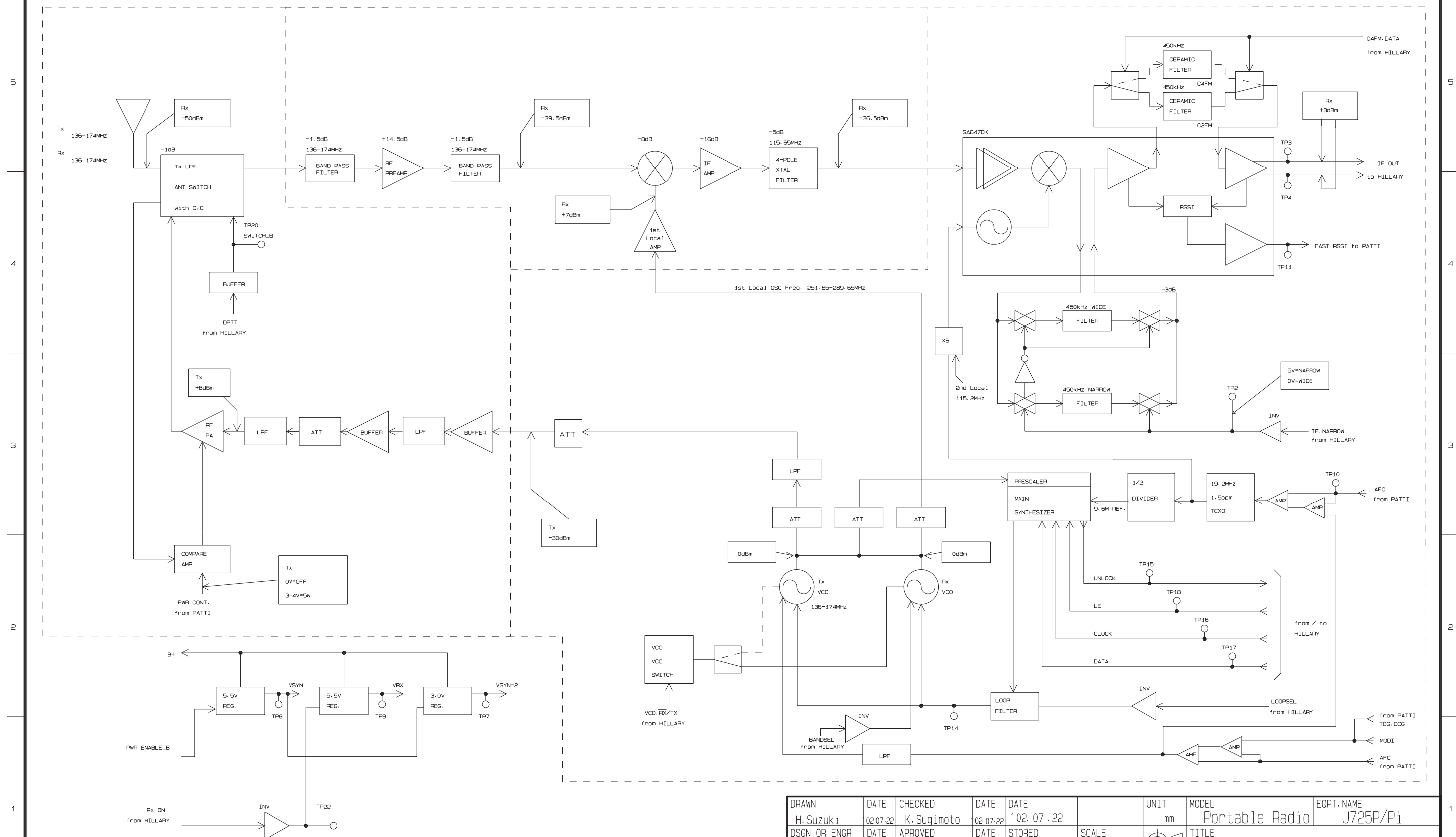
DRAWN	DATE	CHECKED	DATE	DATE	UNIT	MODEL	EQPT. NAME
H. Hikichi	02.07.22	K. Sugimoto	02.07.22	02.07.22	mm	Portable Radio	J725P/P1
DSGN OR ENGR	DATE	APPROVED	DATE	STORED	SCALE	TITLE	Rev.
H. Hikichi	02.07.22	N. Kimura	02.07.22			Interconnection Schematic Diagram	1/1
KOKUSAI DENKI ENGINEERING CO., LTD					PARTS CODE	DWG. No.	Rev.
						G3UD07406	0



REVISONS	SYM	DATE	POSITION	DESCRIPTION	REVISED	CHECKED	APPROVED
	1	X					
	2	X					
	3	X					
	4	X					
	5	X					

DRAWN H.Hikichi	DATE 02.07.22	CHECKED K.Sugimoto	DATE 02.07.22	DATE 02.07.22	DATE 02.07.22	UNIT mm	MODEL Portable Radio	EQPT.NAME J725P/Pi
DSGN OR ENGR H.Hikichi	DATE 02.07.22	APPROVED N.Kimura	DATE 02.07.22	DATE 02.07.22	STORED	SCALE 	TITLE MAIN LOGIC BLOCK DIAGRAM	1/1
KOKUSAIDENKI ENGINEERING CO., LTD						PARTS CODE	DWG. No. G3UD07405	Rev. 0

H			G		F		
REVISIONS	SYM	DATE	POSITION	DESCRIPTION	REVISED	CHECKED	APPROVED
	① X						
	② X						
	③ X						
	④ X						
	⑤ X						



DRAWN	DATE	CHECKED	DATE	DATE	UNIT	MODEL	EQPT. NAME
H. Suzuki	02-07-22	K. Sugimoto	02-07-22	02.07.22	mm	Portable Radio	J725P/Pi
DSGN OR ENGR	DATE	APPROVED	DATE	STORED	SCALE	TITLE	
F. Saitho	02-07-22	N. Kimura	02-07-22			MAIN RADIO BLOCK DIAGRAM 1/1	
KOKUSAIDENKI ENGINEERING CO., LTD					PARTS CODE	DWG. No.	Rev.
						G3UD07404	1 0