

3. Block diagram

This is the block diagram concerning to the transmitter

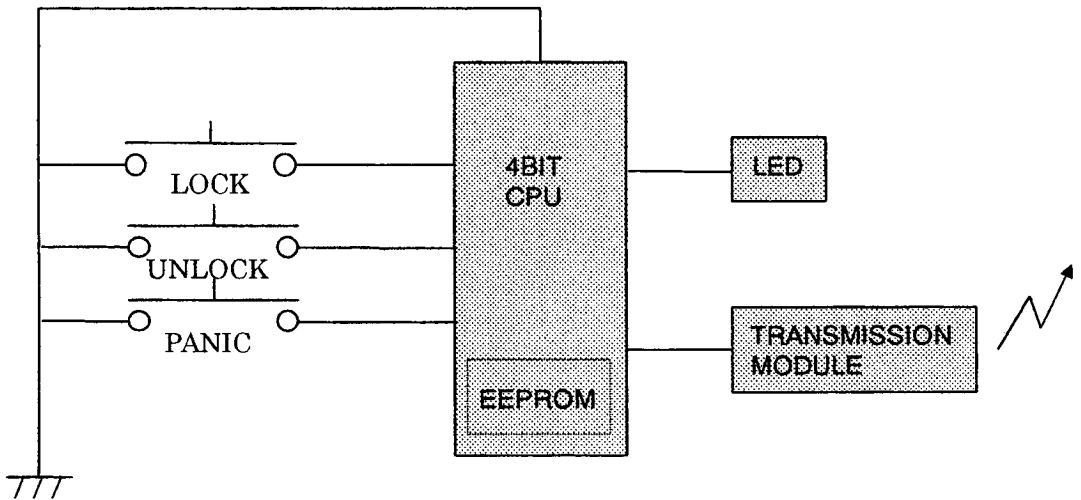


Figure 3.1 block diagram of the transmitter

6. PCB

6.1 Circuit diagram

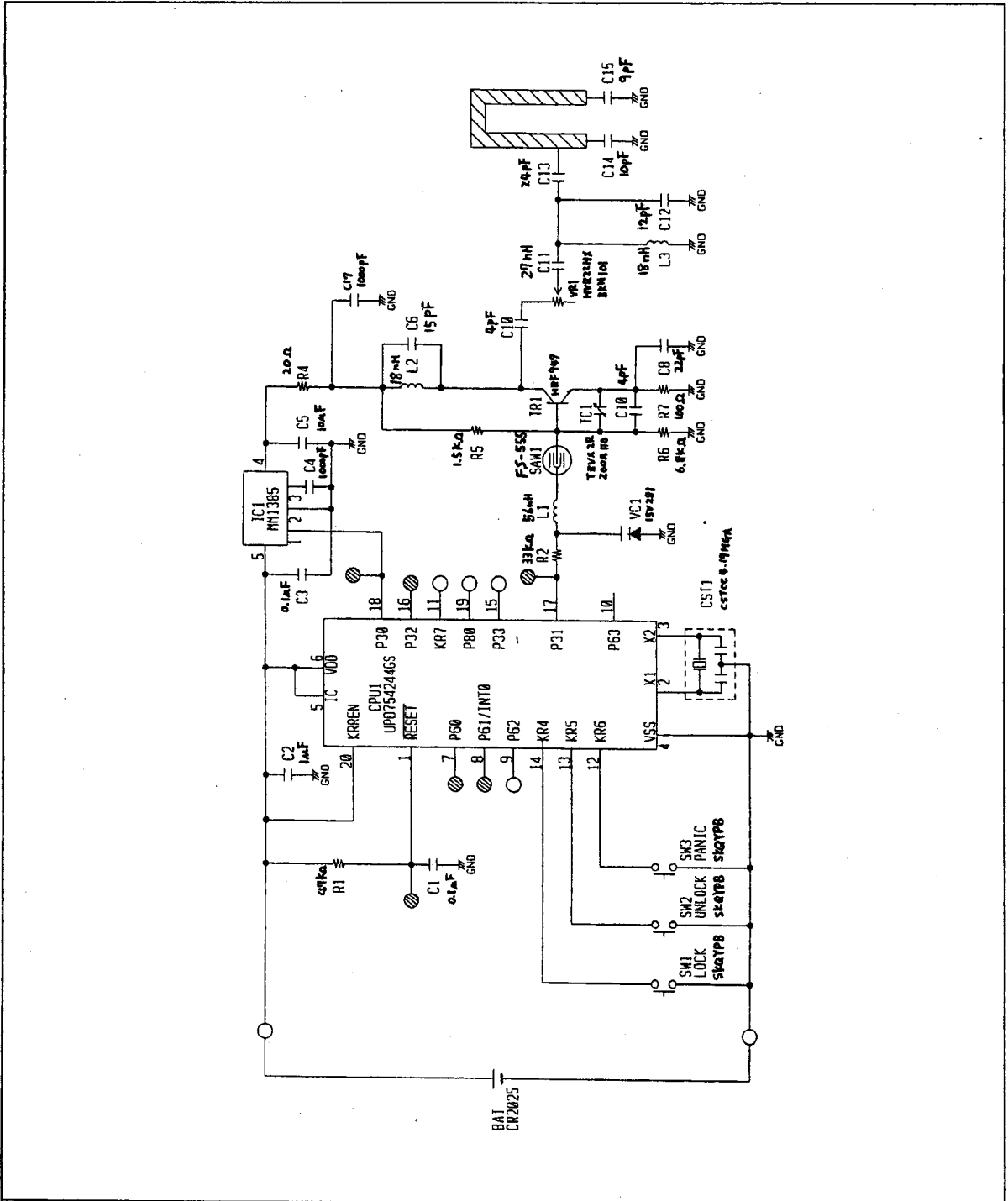


Figure 6.1 Circuit diagrams

6.2 Parts layout

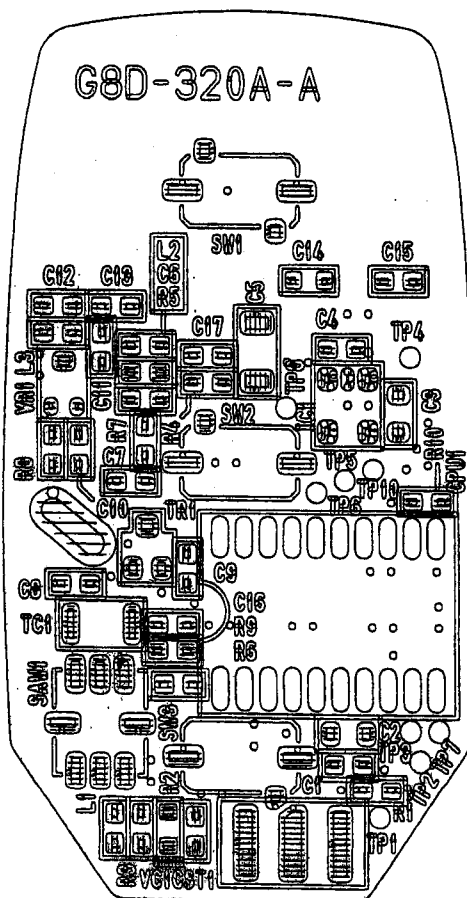


figure 6.2 Parts layout (front)

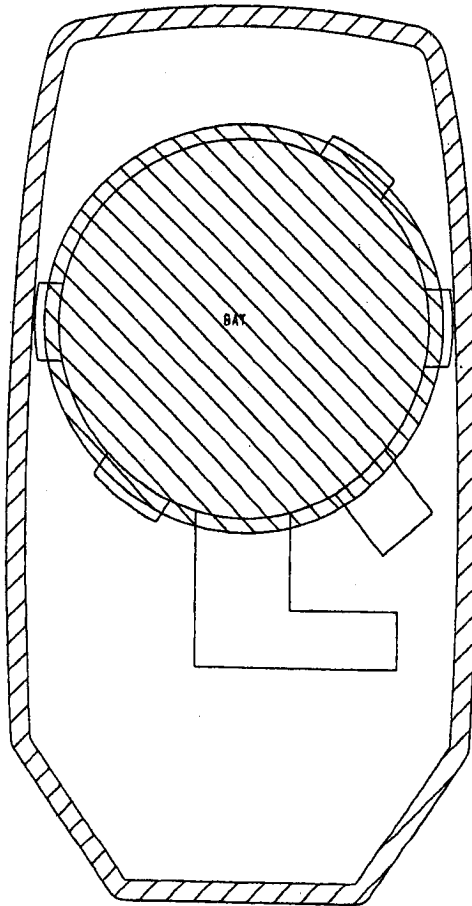


figure 6.3 Parts layout (back)

6.3 pattern layout

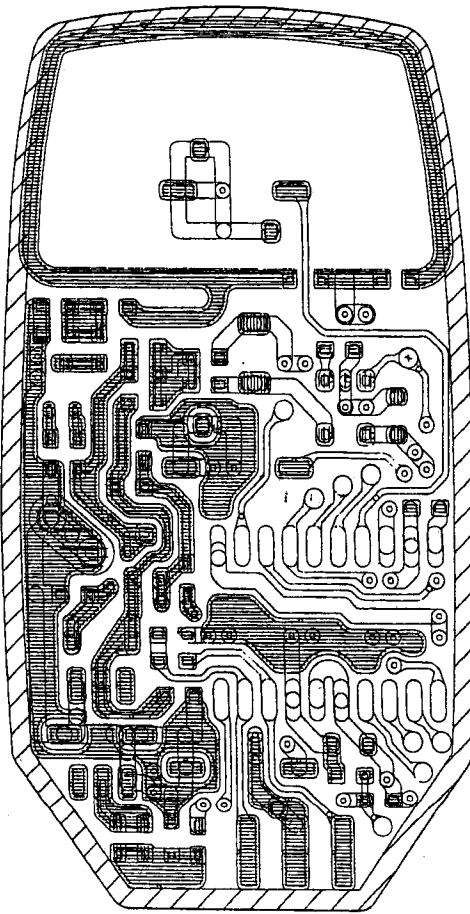


figure 6.4 pattern layout (front)

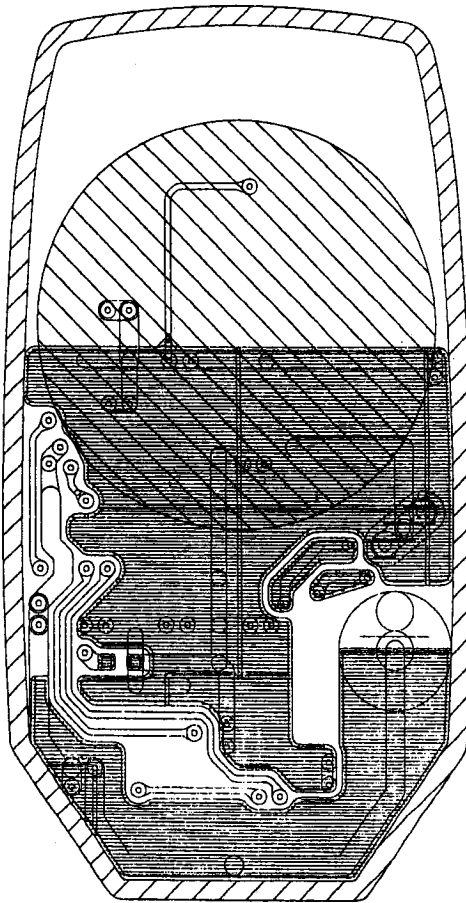


figure 6.5 pattern layout (back)

6. 4 Parts List

FCC ID: E4EG8D-320A-A

No	PARTS NAME	MANUFACTURER	QTY	TYPE	SPECIFICATION	REMARK
1	PWB	CMK	1	CEM3	t=0.8	
2	CPU	NEC	1	μ PD754244GS	16pin	CPU1
3	SAW RESONATOR	EPSON	1	FS-555	313.95MHz	SAW1
4	REGULATOR	MITSUMI	1	MM1385NNRE	2.5V	IC1
5	TRANSISOR	MOTOROLA	1	MRF947		TR1
6	CERAMIC OSCILLATOR	MURATA industry	1	CSTCC4.19MGA		CST1
7	VARIABLE CAPCITOR	TOSHIBA	1	1SV281-TPH3	$C_{11}/C_{21}=2.0$	VC1
8	CHIP INDUCTOR		1	LQP11A56NG14	56nH \pm 2%	L1
9	CHIP INDUCTOR		2	LQG11A18NG14	18nH \pm 2%	L2, 3
10	CHIP CERAMIC TRIMMER CAPACITOR	MURATA industry	1	TZVX2R200A110T00	4.5~20pF	TC1
11	CERAMIC CAPACITOR	MURATA industry	1	GRM39R104K16PT	0.1 μ F 16V	C1
12	CERAMIC CAPACITOR	MURATA industry	1	GRM40F105Z16PT	1 μ F 16V	C2
13	CERAMIC CAPACITOR	MURATA industry	1	GRM40R104K50PT	0.1 μ F 50V	C3
14	CERAMIC CAPACITOR	MURATA industry	2	GRM39F102Z50PT	1000pF 50V	C4, 17
15	CERAMIC CAPACITOR	MURATA industry	1	GRM42-6B106K6.3PT	10 μ F 6.3V	C5
16	CERAMIC CAPACITOR	MURATA industry	1	GRM39CG150B50PT	15pF(\pm 1%) 50V	C6
17	CERAMIC CAPACITOR	MURATA industry	1	GRM39CG220F50PT	22pF(\pm 1%) 50V	C8
18	CERAMIC CAPACITOR	MURATA industry	1	GRM39CG040B50PT	4pF(\pm 1%) 50V	C10
19	CERAMIC CAPACITOR	MURATA industry	1	CCM-L12CH1H150JT2	12pF(\pm 5%) 50V	C12

					DESIGNED	CHECKED	APPROVED
					TRANSMITTER PARTS LIST		
					G 8 D - 3 2 0 A - A		
					SHEET No (1 / 2)		
A	98-09-17						
SYM	DATE	E/C CONTENTS	E/C No	SIGN	DWG NO.		

No	PARTS NAME	MANUFACTURER	QTY	TYPE	SPECIFICATION	REMARK
20	CERAMIC CAPACITOR	MURATA industry	1	GRM39CG240F50PT	24pF (±1%) 50V	C13
21	CERAMIC CAPACITOR	MURATA industry	1	GRM39CG100F50PT	10pF (±1%) 50V	C14
22	CERAMIC CAPACITOR	MURATA industry	1	GRM39CG090B50PT	9pF (±1%) 50V	C15
23	CHIP INDUCTOR		1	LQG11A27NG14	27nH±5%	C11
24	CHIP VARIABLE RESISTOR	ROHM	1	MVR22HXBRN101	100Ω	VR1
25	CHIP RESISTOR		1	RK16CAY47KJ-T1	47KΩ 1/16W	R1
26	CHIP RESISTOR		1	RK16CAY33KJ-T1	33KΩ 1/16W	R2
27	CHIP RESISTOR		1	RK16CAY20J-T1	20Ω 1/16W	R4
28	CHIP RESISTOR		1	RK16CAY1.5KJ-T1	1.5KΩ 1/16W	R5
29	CHIP RESISTOR		1	RK16CAY6.8KJ-T1	6.8KΩ 1/16W	R6
30	CHIP RESISTOR		1	RK16CAY100J-T1	100Ω 1/16W	R7
31	TACT SWITCH		3	SKQYPB	260gF	SW1, 2, 3
32	TERMINAL (+)		1	C5210R-EH	t=0.15	
33	TERMINAL (-)		1	C5210R-EH	t=0.15	
34	BATTERY	TOSHIBA	1	CR2025		
35	CASE UPPER		1	ABS	BLACK 3-KEY	
36	CASE LOWER		1	ABS	BLACK	
37	SW KNOB		1	ABS	GRAY/BLACK/ RED	
38	SEAL RUBBER		1	SILICON GUM		
39	LABEL		1		FCC LABEL	
40						

注

TRANSMITTER PARTS LIST

G8D-320A-A

SHEET No (2 / 2)

DWG NO.