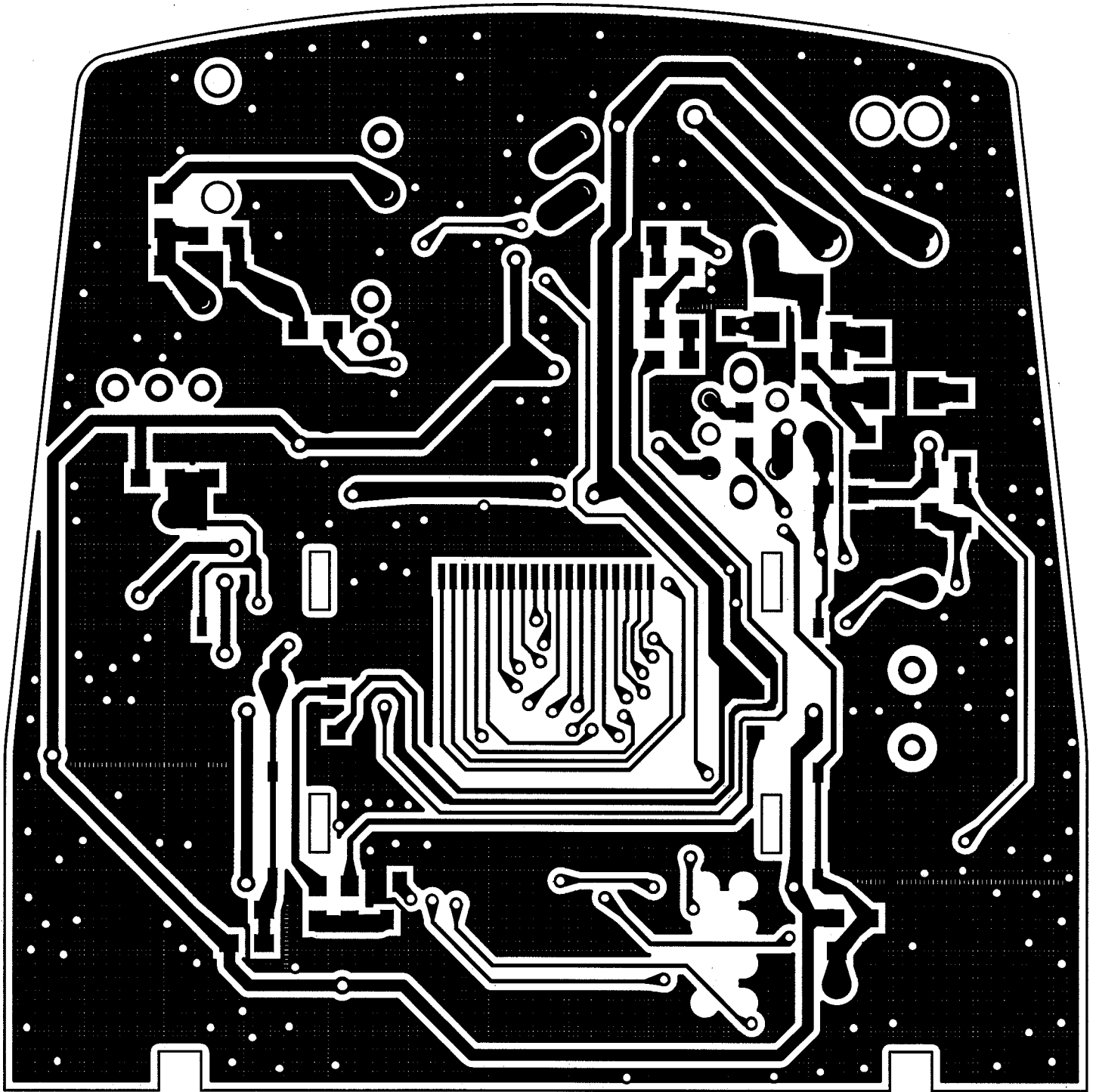


Designator	Part Type	Footprint	Description
C1	10P	C0603	Capacitor
C10	103P	C0603	Capacitor
C11	102P	C0603	Capacitor
C12	102P	C0603	Capacitor
C13	102P	C0603	Capacitor
C14	102P	C0603	Capacitor
C15	102P	C0603	Capacitor
C16	0.1uF(UN)	CASE-A	Capacitor
C17	0.47uF/6V(A)	CASE-A	Tantalum Capacitor
C18	103P	C0603	Capacitor
C19	10uF/10V(A)	CASE-A	Tantalum Capacitor
C2	68P	C0603	Capacitor
C20	10uF/10V(A)	CASE-A	Tantalum Capacitor
C21	27P	C0603	Capacitor
C22	22P	C0603	Capacitor
C23	51P	C0603	Capacitor
C24	47u/6.3V(B)	CASE-B	Tantalum Capacitor
C25	6P	C0603	Capacitor
C26	68P	C0603	Capacitor
C27	68P	C0603	Capacitor
C28	68P	C0603	Capacitor
C29	103P	C0603	Capacitor
C3	15P	C0603	Capacitor
C30	103P	C0603	Capacitor
C31	103P	C0603	Capacitor
C32	104P	C0603	Capacitor
C33	3P	C0603	Capacitor
C34	330P	C0603	Capacitor
C35	104P	C0603	Capacitor
C36	103P	C0603S	Capacitor
C37	20P	CTZ	Capacitor
C38	100uF/6.3V(E)	CASE-E	Chip Capacitor
C39	10uF/10V(A)	CASE-A	Tantalum Capacitor
C4	102P	C0603	Capacitor
C40	103P	C0603	Capacitor
C41	103P	C0603	Capacitor
C42	102P	C0603	Capacitor
C5	1uF	CASE-A	Capacitor
C6	472P	C0603	Capacitor
C7	472P	C0603	Capacitor
C8	472P	C0603	Capacitor
C9	103P	C0603	Capacitor
D1	1SV217	D-1SS	Diode
D2	1SS314	D-1SS	Diode
D5	1SS317	D-1SS	Diode
IC1	TDA7021	MC3361	IC
IC2	TDA7050	BA1521	IC
IC3	TB31202FN	SSOP16	PLL IC

IC4	TK11320	SOT23L-6	Voltage Stabilize IC
J1	PHONEJACK	JACK-PHONE	JACK-PHONE
L1	4.7uH	L0805	CHIP COIL
L2	4.7uH	L0805	CHIP COIL
L3	4.7uH	L0805	CHIP COIL
P3	PAD	P	
P4	PAD	P	
Q3	BC817-40W(NU)	UMT3	NPN Transistor
Q4	2SC2712	SMT BCE	Transistor
Q5	2SA1037	SMT BCE	Transistor
R1	100K	R0603	Resistor
R10	100K	R0603	Resistor
R11	33K	R0603	Resistor
R2	0R	R0603	Resistor
R3	10K	R0603	Resistor
R33	10K(NU)	R0603	Resistor
R34	1K	R0603	Resistor
R35	0R	R0603	Resistor
R36	220R	R0603	Resistor
R37	1K	R0603	Resistor
R38	10K	R0603	Resistor
R4	0R	R0603	Resistor
R5	0R	R0603	Resistor
R6	4K7	R0603	Resistor
R7	560R	R0603	Resistor
R8	4K7	R0603	Resistor
R9	4.7K	R0603	Resistor
RA1	47K	R0603	Resistor
T1	GS8258	IFTS-5EA	IFT
T2	GS8258	IFTS-5EA	IFT
T3	GS-8376	IFTS-5E	IFT
VR1	SW & A10K VR	SW-1	Traditional VR
X1	20.950MHz	XTAL	XTAL

Designator	Part Type	Footprint	Description
C43	102P	C0603	Capacitor
C44	102P	C0603	Capacitor
C45	102P	C0603	Capacitor
C46	102P	C0603	Capacitor
C47	102P	C0603	Capacitor
C48	22P	C0603	Capacitor
C49	22P	C0603	Capacitor
C50	NU	C0603	Capacitor
C51	104P	C0603	Capacitor
C53	103P	C0603	Capacitor
C54	102P	C0603	Capacitor
C55	100P	C0603	Capacitor
C56	103P	C0603	Capacitor
C57	102P	C0603	Capacitor
CP1	10uf/6V(A)	CASE-A	Tantalum Capacitor
D3	2107SGC	LEDKPA2106	LED
D4	2107SGC	LEDKPA2106	LED
JP1	8 PIN 2.0	FEMALE1	8 Pin Header
L4	NU	IN	COIL
Q1	DTC114YUA	UMT3BCE	Transistor
Q2	NU	UMT3	NPN Transistor
R12	100K	R0603	Resistor
R13	100K	R0603	Resistor
R14	100K	R0603	Resistor
R15	10K	R0603S	Resistor
R16	10K	R0603S	Resistor
R17	10K	R0603S	Resistor
R18	180R	R0603	Resistor
R19	180R	R0603	Resistor
R20	NU	R0603S	Resistor
R21	NU	R0603S	Resistor
R22	NU	R0603S	Resistor
R23	1K(NU)	R0603S	Resistor
R24	0R	R0603S	Resistor
R25	47K	R0603	Resistor
R26	47K	R0603	Resistor
R27	47K	R0603	Resistor
R28	47K	R0603	Resistor
R29	47K	R0603	Resistor
R30	47K	R0603	Resistor
R31	NU	R0603	Resistor
R32	330K	R0603	Resistor
SW1	A	SWPT	Touch Switch
SW2	B	SWPT	Touch Switch
SW3	C	SWPT	Touch Switch
SW4	D	SWPT	Touch Switch
U1	LCDKIT	19P	LCD
U2	24LC02	SOP8	IC

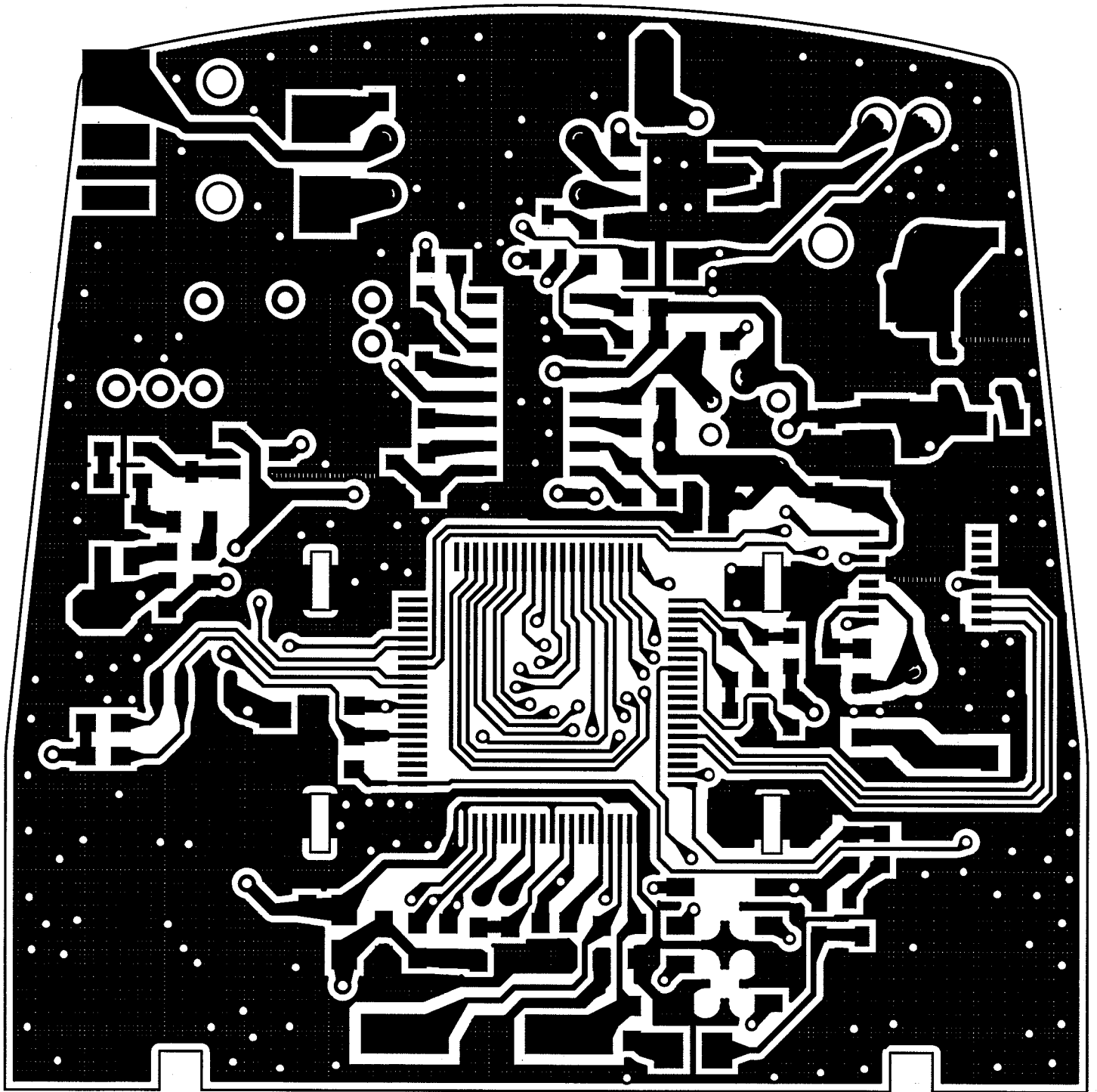
Designator	Part Type	Footprint	Description
U3	TMP86FP24	LQFP-80P-1	IC
X2	8MHz	CRY-X3	XTAL



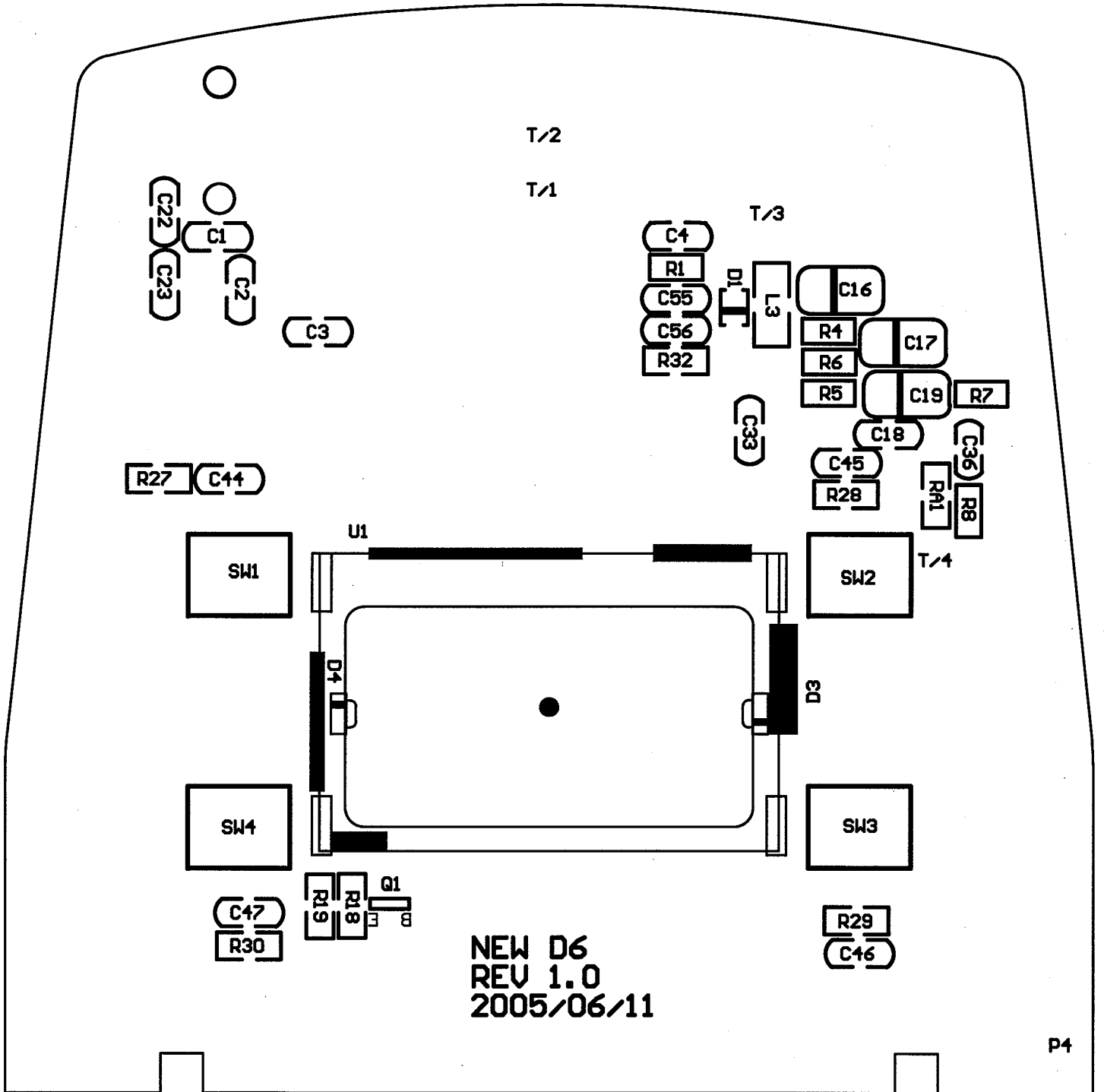
Top Layer

Keep Out Layer

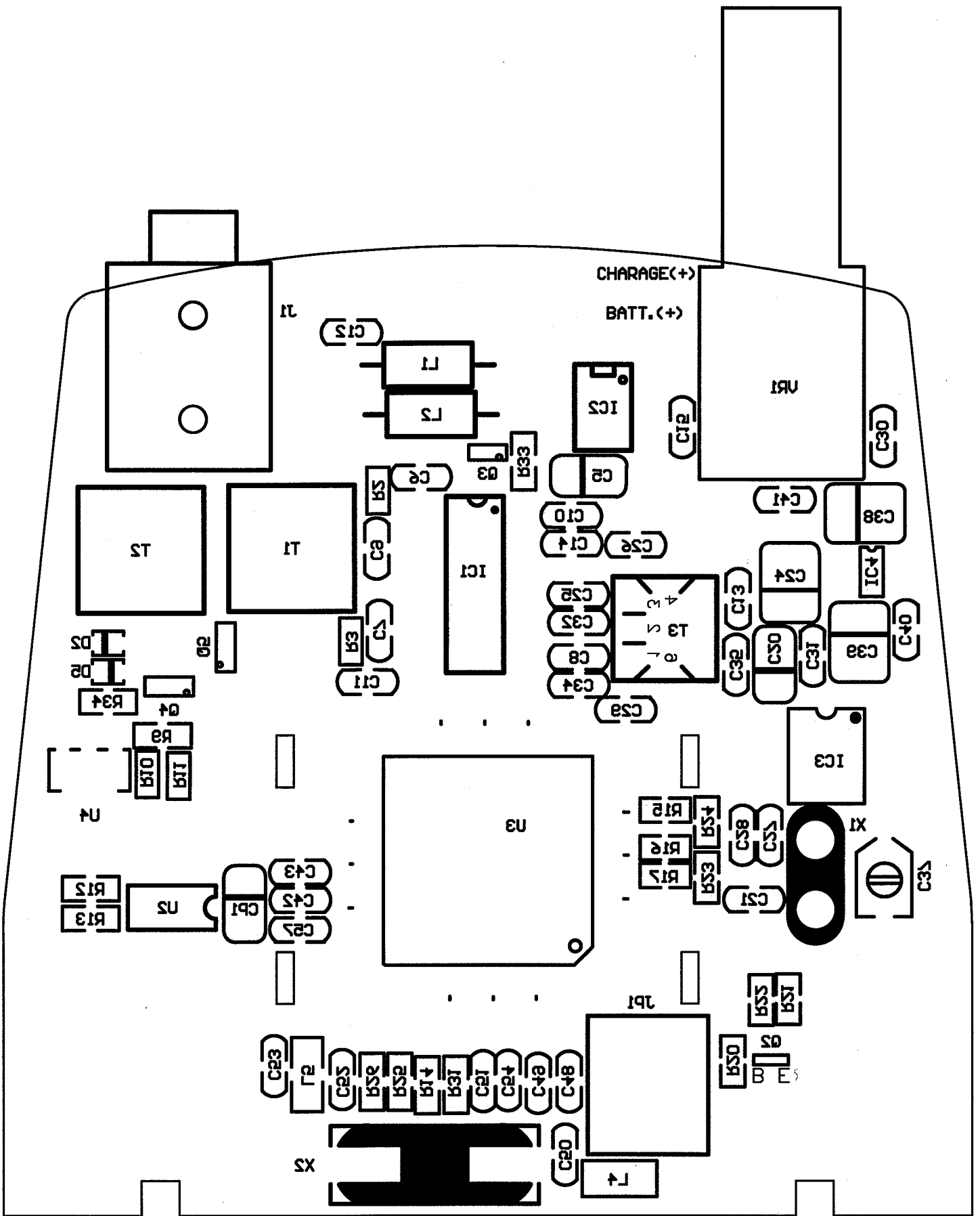
Multi Layer



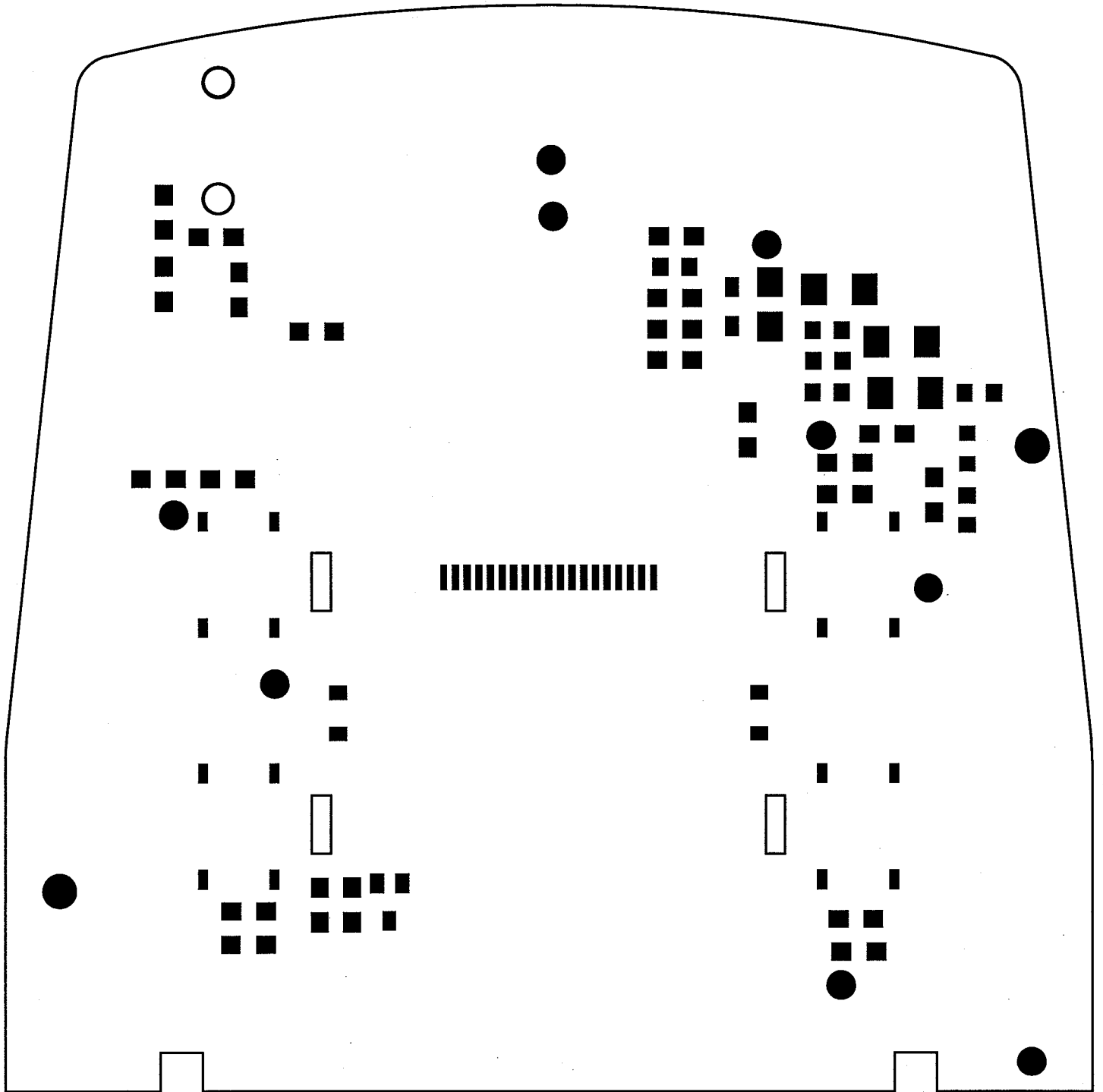
Bottom Layer
Keep Out Layer
Multi Layer



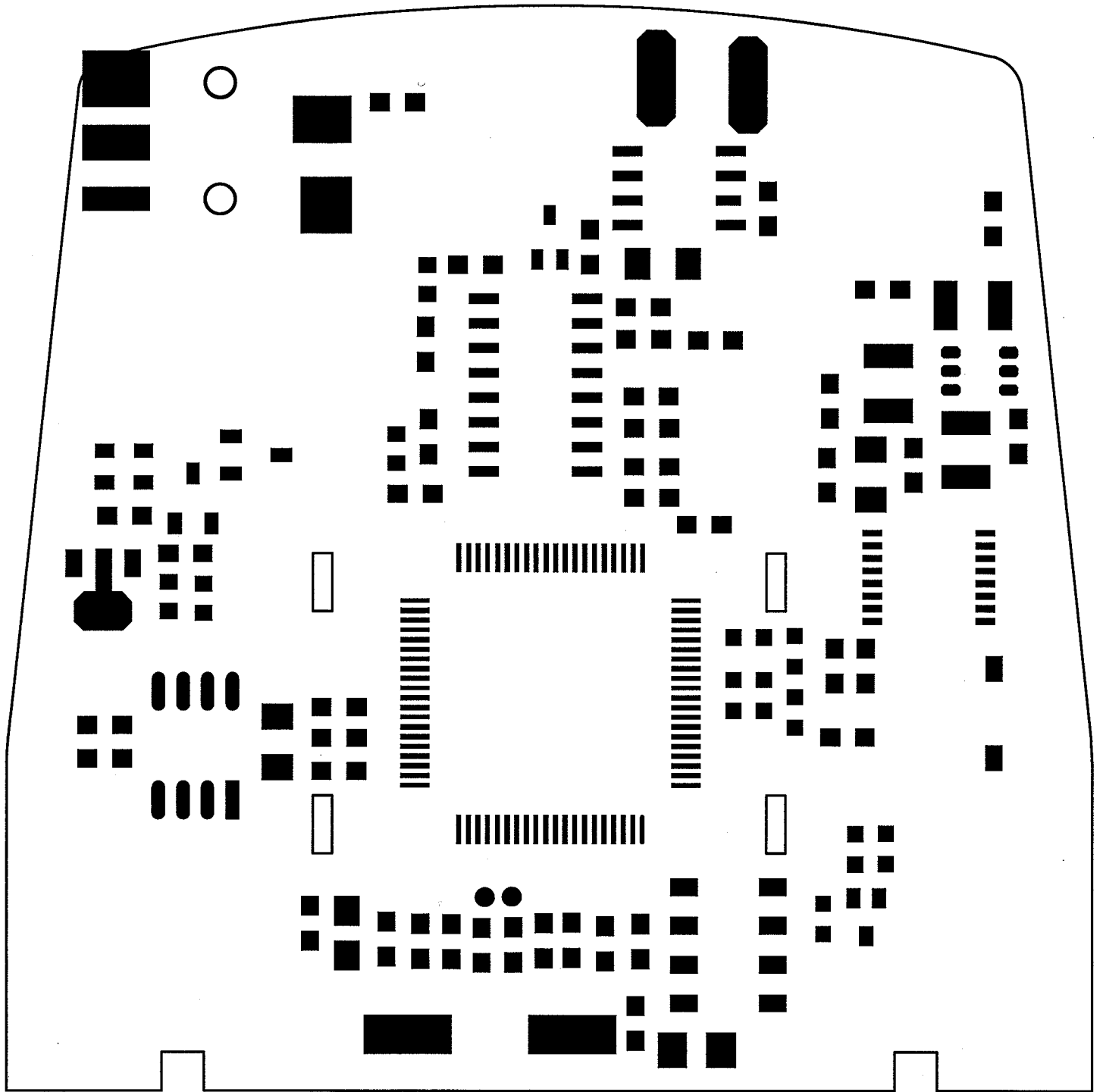
Top Overlay
 Keep Out Layer



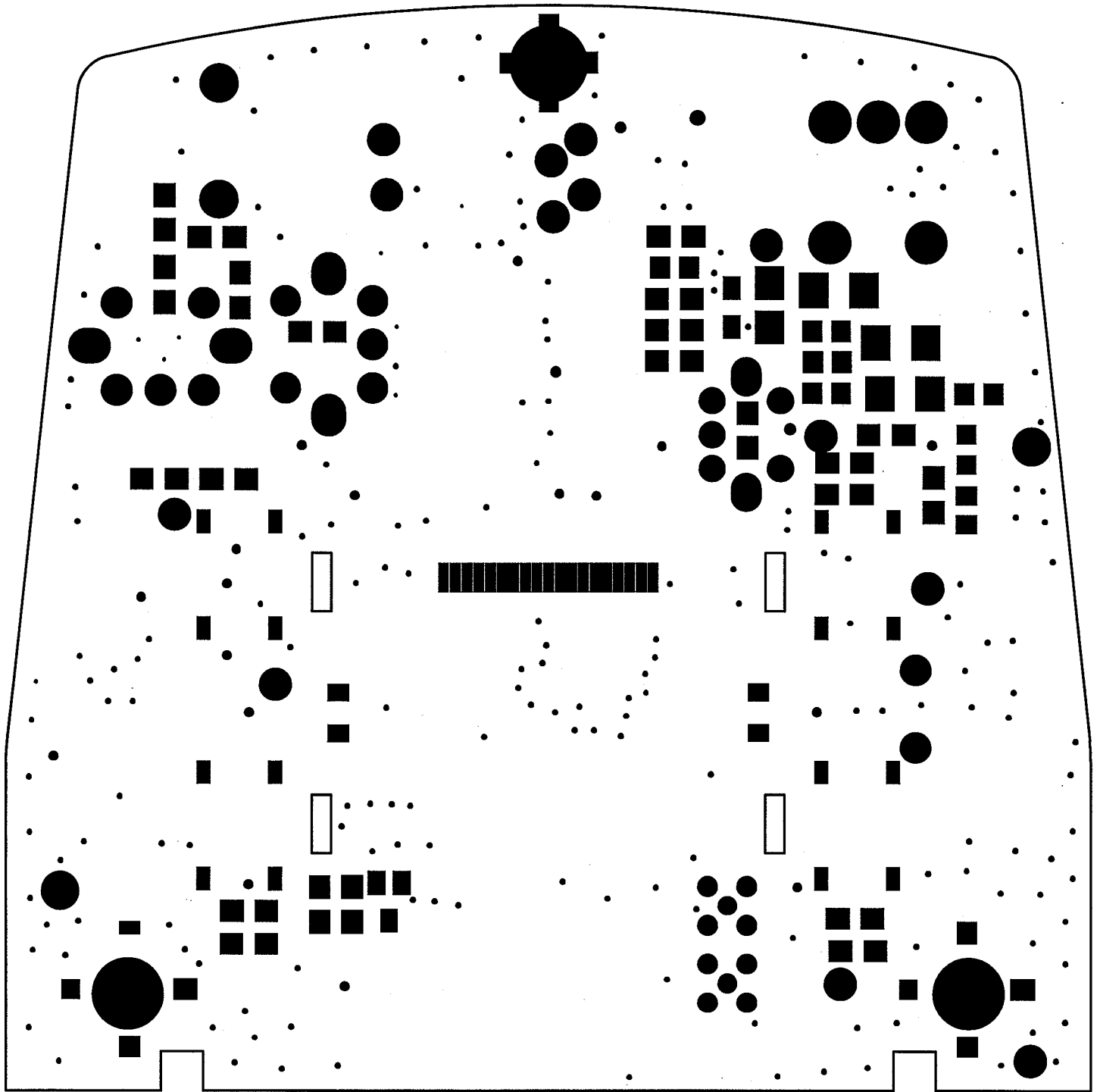
Bottom Overlay
 Keep Out Layer



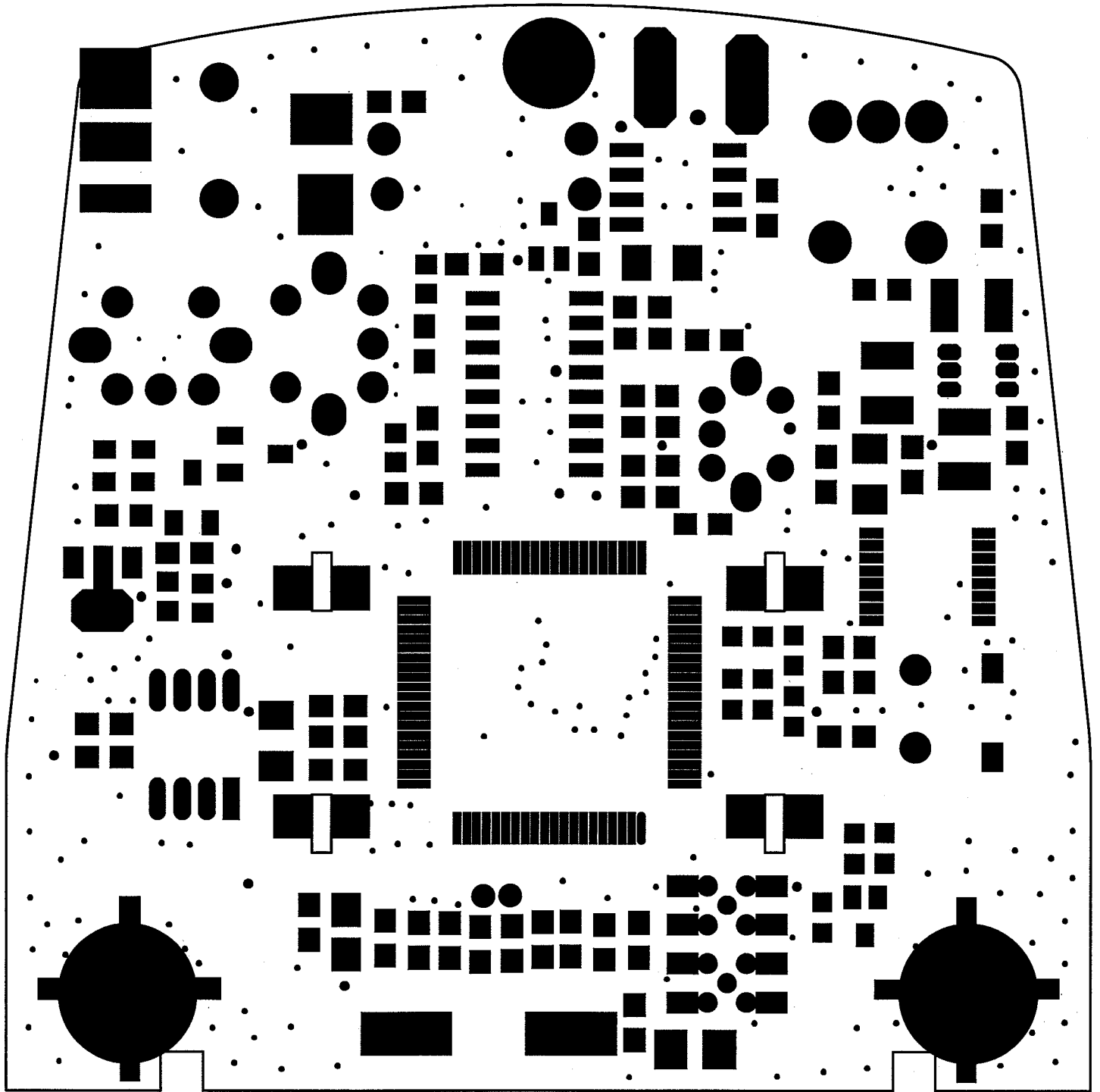
Top Paste
Keep Out Layer



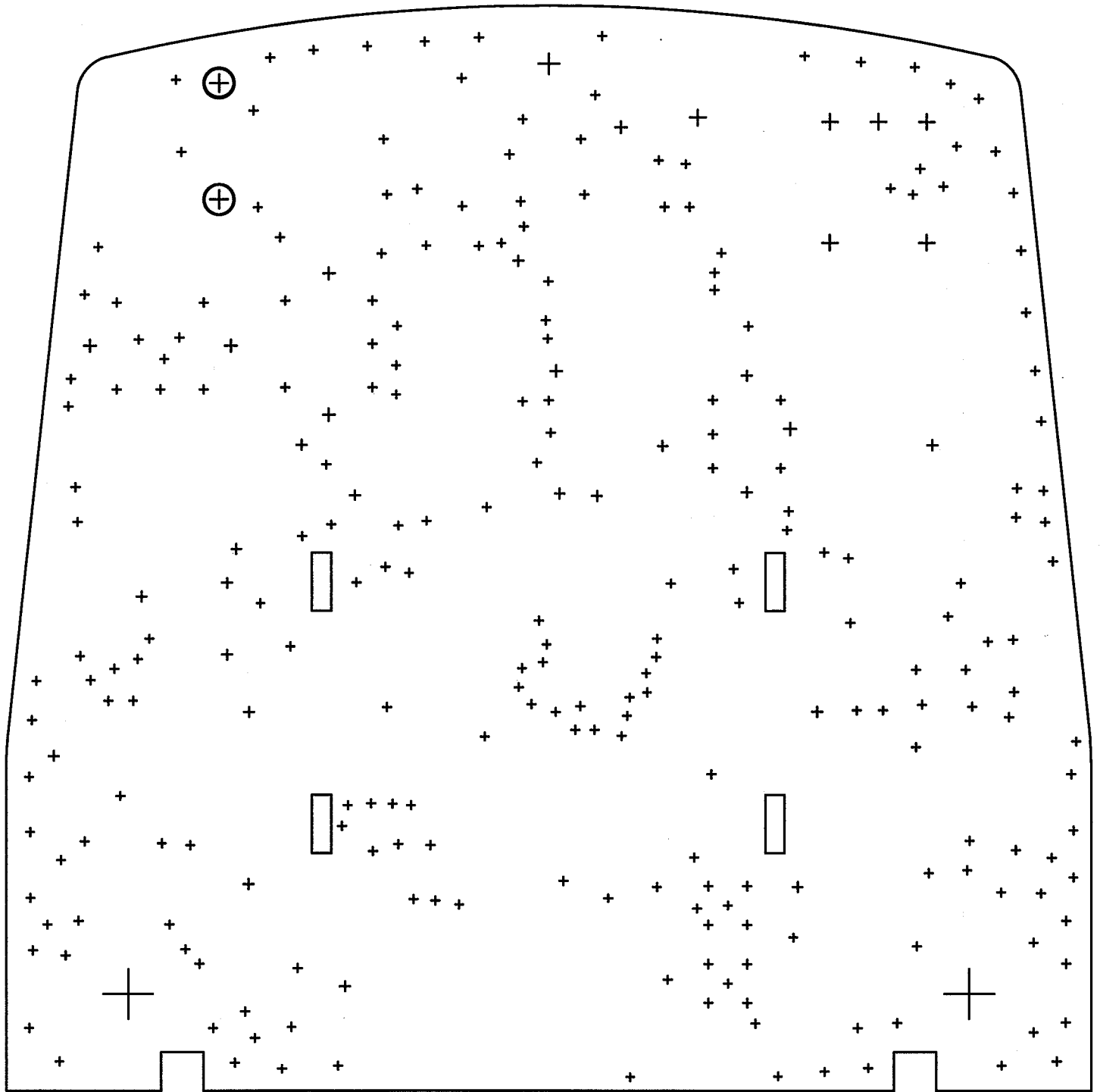
Bottom Paste
Keep Out Layer



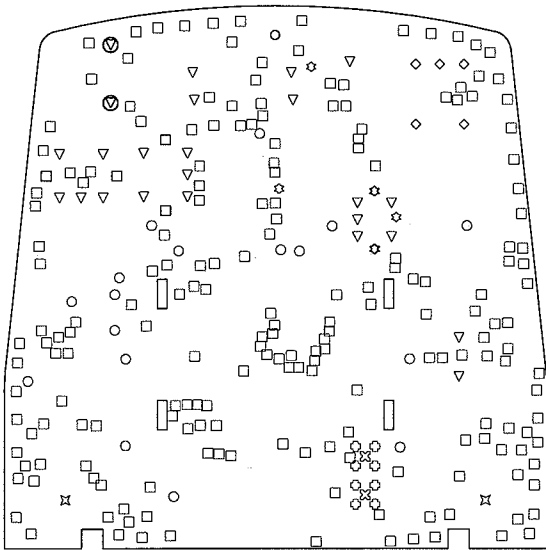
Top Solder Mask
Keep Out Layer



Bottom Solder Mask
Keep Out Layer

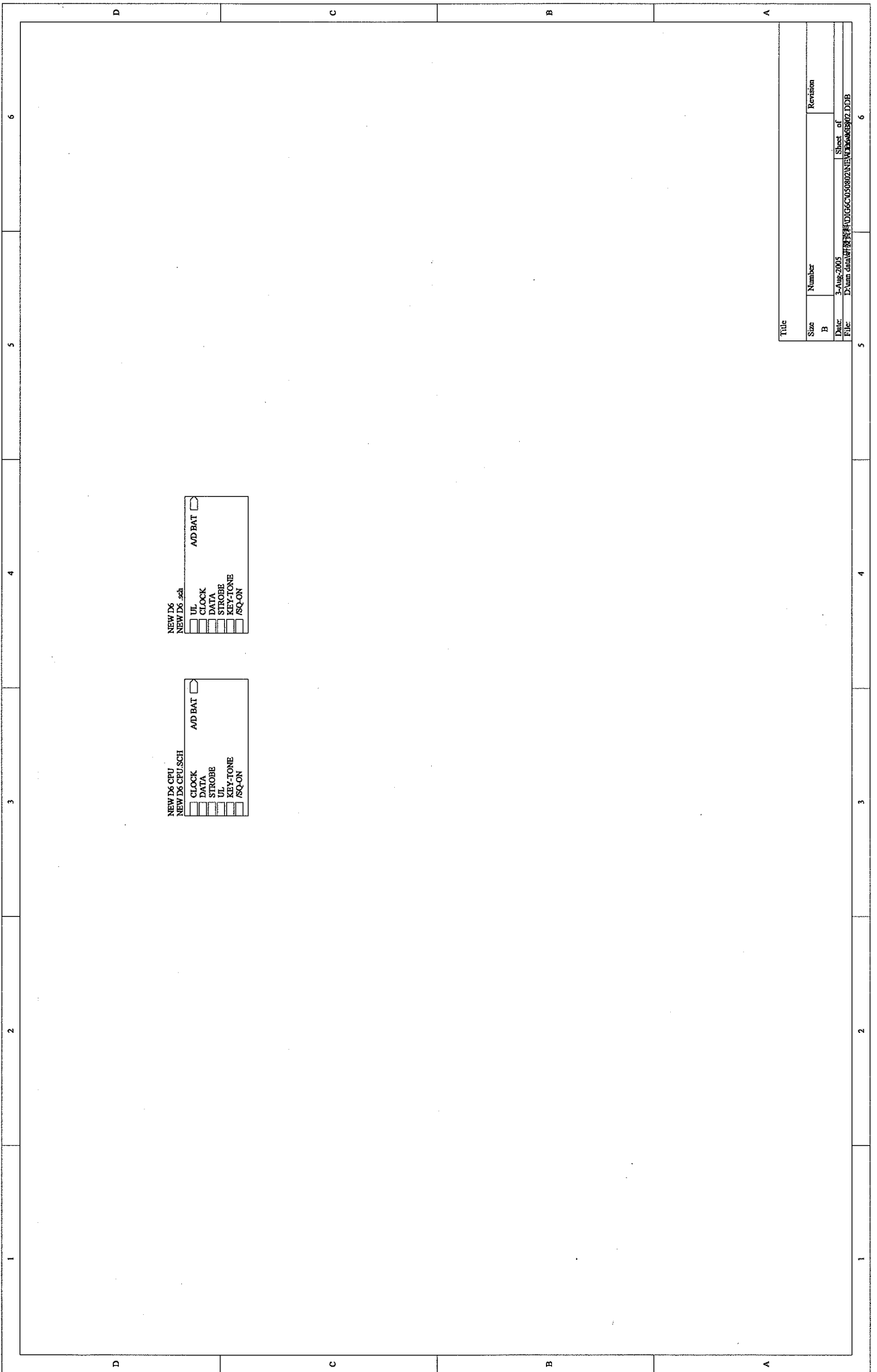


Drill Guide
Keep Out Layer



□	199	15.748mil	0.4mm	PTH
○	17	19.685mil	0.5mm	PTH
✱	3	23.622mil	0.6mm	PTH
▽	22	31.496mil	0.8mm	PTH
⊗	2	31.496mil	0.8mm	NPTH
◇	8	33.465mil	0.85mm	NPTH
✱	2	39.37mil	1mm	PTH
□	4	47.244mil	1.2mm	PTH
◇	5	62.992mil	1.6mm	PTH
▽	2	70.866mil	1.8mm	NPTH
○	1	82.677mil	2.1mm	PTH
⊗	2	200.787mil	5.1mm	PTH
	267	Total		

Keep Out Layer



NEW D6 CPU
 NEW D6 CPUSCH
 [] CLOCK
 [] DATA
 [] STROBE
 [] UL
 [] KEY-TONE
 [] /SQ-ON
 ADBAT

NEW D6
 NEW D6 .sch
 [] UL
 [] CLOCK
 [] DATA
 [] STROBE
 [] KEY-TONE
 [] /SQ-ON
 ADBAT

Title

Size	Number	Revision
B		
Date:	2 Aug 2005	Sheet of
File:	D:\data\材料\050820\NEW D6\050820.DDB	6

QA TEST REPORT

MODEL: Digital 6 Plus

Order No.

Channel Spacing : 50KHz

Lot Size: pcs

Ref. No :

Test Voltage : 2.4V 3V

EN Ref No.:

Date: 03, AUG. 2005

Test Item			Unit	Limiting	2.4V			Note:
1	Max Output Voltage	72.10 MHz	FM Mod. 1 KHz with ± 25 Khz Deviation -47dBm I/P	V	> 1.45	1.82		
		75.9 MHz			> 1.45	1.7		
2	10% THD	72.1	FM Mod. 1 KHz with ± 25 Khz Deviation -47dBm I/P	V	>1.45	1.82		Max. Dist 8%
		75.9			>1.45	1.7		Max. Dist 2.7%
3	20 dB Sens,	72.10 MHz	FM Mod. 1 KHz with ± 25 Khz Deviation o/p :1.26 V	dBm	< -92	-96		
		75.9 MHz		dBm	< -92	-96		
4	S/N Ratio I/P: 1mV	72.1MHz	FM Mod. 1 KHz with ± 25 Khz Deviation o/p :1.26 V	dB	> 54	56		
5	Standby Current Consumption	72.1MHz	VR. Min. at 3V	mA	< 23	19		
6	Distortion - 47dBm	72.1MHz	FM Mod. 1 KHz with ± 25 Khz Deviation o/p :1.26 V	%	< 5	1		
		75.9MHz				0.96		
7	Min. Operation Voltage		FM Mod. 1 KHz with ± 25 Khz Deviation o/p :1.26 V	V	2.29	1.89		
8	Frequency Response	6KHz	FM Mod. 1 KHz with ± 25 Khz Deviation o/p :1.26 V=odB	dB	0 ~ -6 (Ref.)	-8.1		
		100Hz			0 ~ -6 (Ref.)	-0.5		
9	2.4V		Battery Bar	Ref.	2.34V 3Bar	2.3V 2Bar	2.25V 1Bar	2.2V LO
10	3 V		Battery Bar	Ref.	2.84V 3Bar	2.7V 2Bar	2.5V 1Bar	2.42V LO

Test condition: CMS@25KHz Dev. by Radiated

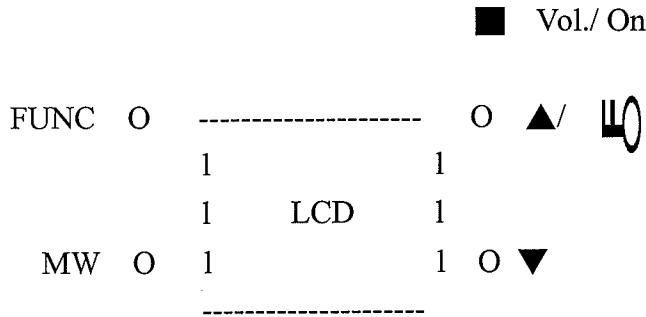
QC00401

Operation Voltage: 2.4V and 3V

Output Load: 32 Ohm

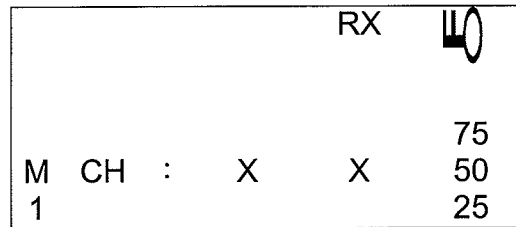
Approval by: *Charles* Checked by: *Daniel C.Y.* Tested by: *Chengfeng Kao*
Aug 3/05

A. Outlook



B. Instructions:

- 1) LCD all segment refer to the attached pattern. Working voltage is 2V DC
- 2) CPU working voltage is 2V
- 3) The LCD screen will show Memory channel (6 CH, estimated), as follow:



"RX" icon is used for signal strength indicator, It will be flashing when didn't receive signal and stop flash after received the signal.

press <▲> or <▼> button can select from M1~M6

- 4) Press <MW> to modify memory channels and the 'M' character turns to flashing, use <▲> or <▼> to select channel from CH01 to CH37, press <MW> the second time to save and return to main screen. If there is no any keying within 5 seconds or no signal is receiving the screen will back to main screen when in modify screen, this is for alignment and QC convenient.
- 5) Press <FUNC> + <MW> can enter battery select mode, you can use <▲> or <▼> key to select normal battery 3.0v or rechargeable battery 2.4v.
Press <FUNC>+<MW> again, stored the setting and return normal display.
- 6) Using auto BACK-LIGHT method, press any button will turn on LCD back-light 5 seconds and turn off automatically.
- 7) Turn on the power and press the <▲> or <▼> button in the mean time will reset the factory default settings.
- 8) Press <FUNC> + <▲> in the mean time will lock the front button functions.
- 9) Press <FUNC> may display the working frequency(please refer to the D6 frequency list)