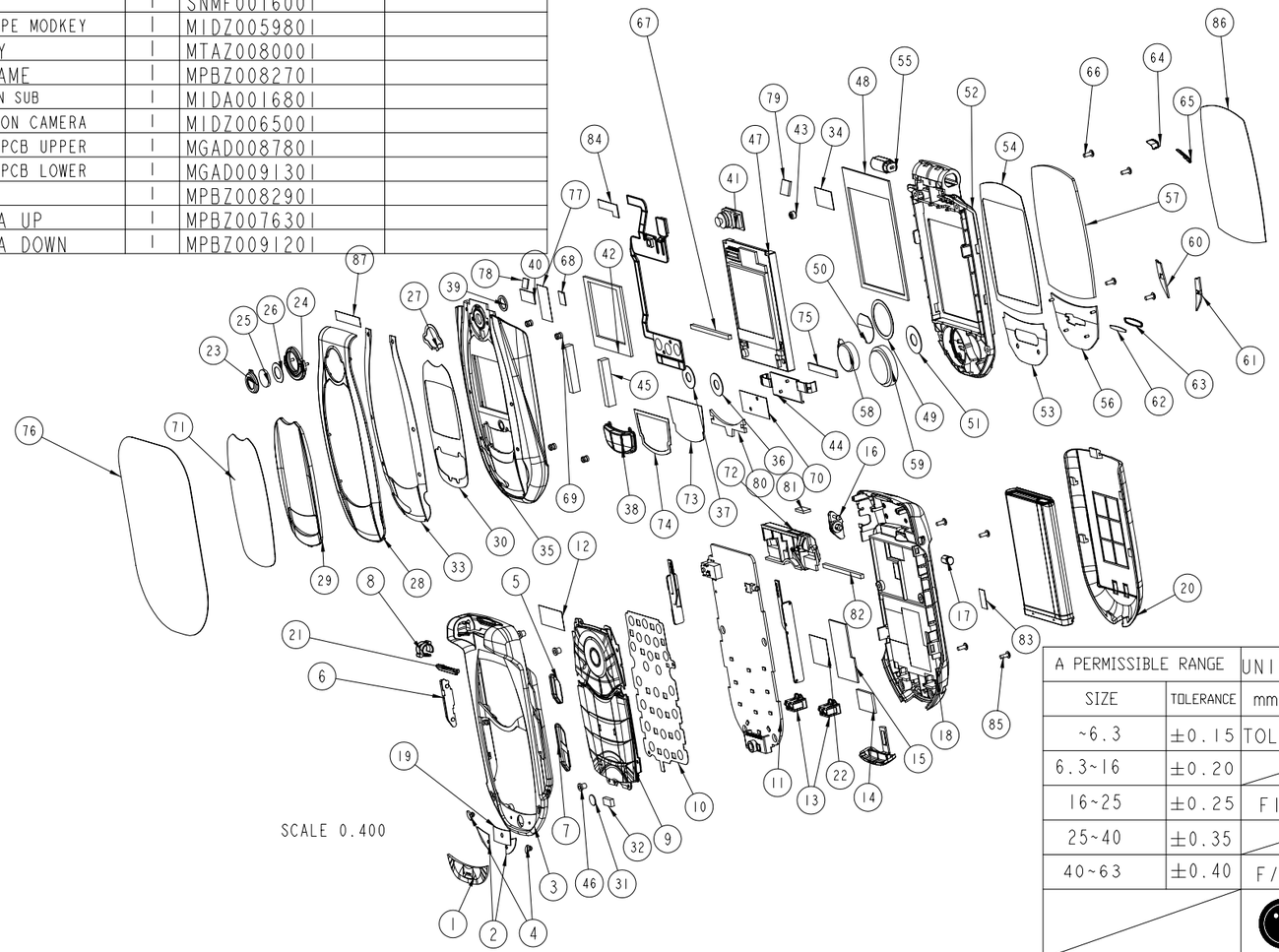
CTQ table						
DETAIL SPEC.			TOLERANCE		TARGET Z (3~6)	Z	DECISION (A,B,C)
NO.	ITEM	SIZE	+	-			

NO.	DESCRIPTION	Q'TY	DRAWING NO.	REMARK
49	PAD LOWER SPEAKER	1	MPBN0019201	
50	FILTER LOWER SPEAKER	1	MFBC0013501	
51	PAD LOWER MOTER	1	MPBJ0022701	
52	COVER LOWER	1	MCJH0024701	
53	TAPE LOWER DECO	1	MTAA0070001	
54	TAPE MAIN WINDOW	1	MTAD0033701	
55	HINGE	1	MHFD0010501	
56	LOWER DECO	1	MDAF0006201	
57	MAIN WINDOW	1	MWAC0049201	
58	VIBRATOR,MOTOR (12pi)	1	SJMY0002604	
59	SPEAKER (17pi)	1	SUSY0013801	
60	CAP SCREW UP L	1	MCCH0044501	
61	CAP SCREW UP R	1	MCCH0044601	
62	TAPE DECO RECEIVER	1	MTAA0070301	
63	DECO RECEIVER	1	MDAH0011501	
64	CAP SCREW DOWN L	1	MCCH0044701	
65	CAP SCREW DOWN R	1	MCCH0044801	
66	SCREW MACHINE(MI.4*3.0)	4	GMEY0002001	
67	PAD BAR	1	MPBZ0095801	
68	CAMERA SHIELD FORM	1	MGAD0079001	
69	FOLDER INSERT	4	MICA0014701	
70	TAPE MOD FRAME	1	MTAZ0058301	
71	TAPE PROTECTION SUB_02	1	MIDA0017601	
72	INTENNA	1	SNMF0016001	
73	INSULATION TAPE MODKEY	1	MIDZ0059801	
74	TAPE MODKEY	1	MTAZ0080001	
75	PAD MOD FRAME	1	MPBZ0082701	
76	TAPE PROTECTION SUB	1	MIDA0016801	
77	TAPE PROTECTION CAMERA	1	MIDZ0065001	
78	SHIELD FORM FPCB UPPER	1	MGAD0087801	
79	SHIELD FORM FPCB LOWER	1	MGAD0091301	
80	PAD MOD	1	MPBZ0082901	
81	PAD INTENNA UP	1	MPBZ0076301	
82	PAD INTENNA DOWN	1	MPBZ0091201	

NO.	DESCRIPTION	Q'TY	DRAWING NO.	REMARK
83	CAP REAR	1	MCCZ0012301	
84	PAD FPCB(EPDM)	1	MPBZ0095501	
85	SCREW MACHINE(MI.4*3.0)	4	GMEY0002001	
86	TAPE PROTECTION LCD	1	MIDA0016701	
87	TAPE UPPER HINGE	1	MTAZ0088001	

ASSY(1)	COVER ASSY FOLDER(LOWER)	1	ACGH0030601
ASSY(2)	COVER ASSY FOLDER(UPPER)	1	ACGJ0042101
ASSY(3)	COVER ASSY FRONT	1	ACGK0048201
ASSY(4)	COVER ASSY REAR	1	ACGM0047901



REVISION				
ISSUE	CONTENTS	ENGINEER	APPROVER	DATE
1.0	THE FIRST TIME ISSUE	S H KIM	H C OH	05.05.12
1.1	(71) ITEM ADDITION (55) ITEM NUMBER CHANGE	S H KIM	H C OH	05.06.22
1.2	(87) ITEM ADDITION	S H KIM	H C OH	05.08.01

NO.	DESCRIPTION	Q'TY	DRAWING NO.	REMARK
48	PAD MAIN LCD WINDOW	1	MPBG0030701	
47	LCD MODULE ASSY	1	SVLM0011201	
46	FRONT INSERT	4	MICA0014701	
45	LCD SHIELD FORM	2	MGAD0078601	
44	MOD FRAME	1	MFEZ0004801	
43	MAGNETIC SWITCH	1	AMAA0003901	
42	PAD SUB LCD WINDOW	1	MPBQ0020701	
41	CAMERA	1	SVCY0004501	
40	SHIELD FORM FPCB	1	MGAD0078701	
39	PAD CAMERA	1	MPBT0013701	
38	FUNTION KEY ASSY	1	AKAB0005301	
37	PAD UPPER MOTER	1	MPBJ0022801	
36	PAD UPPER SPEAKER	1	MPBN0017301	
35	COVER UPPER	1	MCJJ0031401	
34	TAPE CAMERA	1	MTAZ0058401	
33	TAPE UPPER DECO	1	MTAA0070501	
32	SHIELD FORM FRONT	1	MGAD0086701	
31	FILTER MIK	1	MFBD0008601	
30	TAPE SUB WINDOW	1	MTAE0021201	
29	SUB WINDOW	1	MWAF0025301	
28	UPPER DECO	1	MDAE0027501	
27	TAPE CAMERA DECO	1	MTAA0070401	
26	TAPE WINDOW CAMERA	1	MTAZ0059101	
25	WINDOW CAMERA	1	MWAE0007101	
24	DECO CAMERA	1	MDAD0010001	
23	DECO WINDOW CAMERA	1	MDAY0012101	
22	INSULATION TAPE REAR	1	MIDZ0060001	
21	STOPPER	1	MSGY0009901	
20	COVER BATTERY	1	MCJA0016601	
19	TAPE DECO FRONT_01	1	MTAA0070601	
18	COVER REAR	1	MCJN0032801	
17	CAP RF	1	MCCF0022701	
16	CAP EARJACK	1	MCCC0022101	
15	PAD MSM	1	MPBL0002901	
14	REAR SHIELD FORM	1	MGAD0078901	
13	BATTERY CONNECTOR	1	ENZY0013201	
12	FRONT SHIELD TAPE	1	MTAC0020901	
11	PCB ASSY	1	SAFY0110508	
10	DOME SHEET	1	ADCA0033901	
9	KEYPAD ASSY	1	AKAZ0008701	
8	HINGE GUIDE	1	MBIB0002501	
7	BUTTON ASSY R	1	MBJL0020101	
6	BUTTON ASSY L	1	MBJL0020001	
5	BUTTON ASSY PTT_KEY	1	MBJL0020201	
4	BUMPER	2	MBHY0012601	
3	COVER FRONT	1	MCJK0036701	
2	TAPE DECO FRONT_02	1	MTAA0093401	
1	DECO FRONT	1	MDAG0009801	

PARTS INDEX

A PERMISSIBLE RANGE		UNIT	SCALE
SIZE	TOLERANCE	mm	0.400
~6.3	±0.15	TOLERANCE	
6.3~16	±0.20		
16~25	±0.25	FINISH	
25~40	±0.35		
40~63	±0.40	F/N	

	DATE	NAME
APP.		H C OH
CHEC.		S B LIM
DESG.		S H KIM

MATERIAL	
REL DWG	
DWG NAME	LG-MX500 PHONE
DWG NO.	

LGE LG Electronics Inc.

SIZE A3

LGIC<20>-B-4003.0

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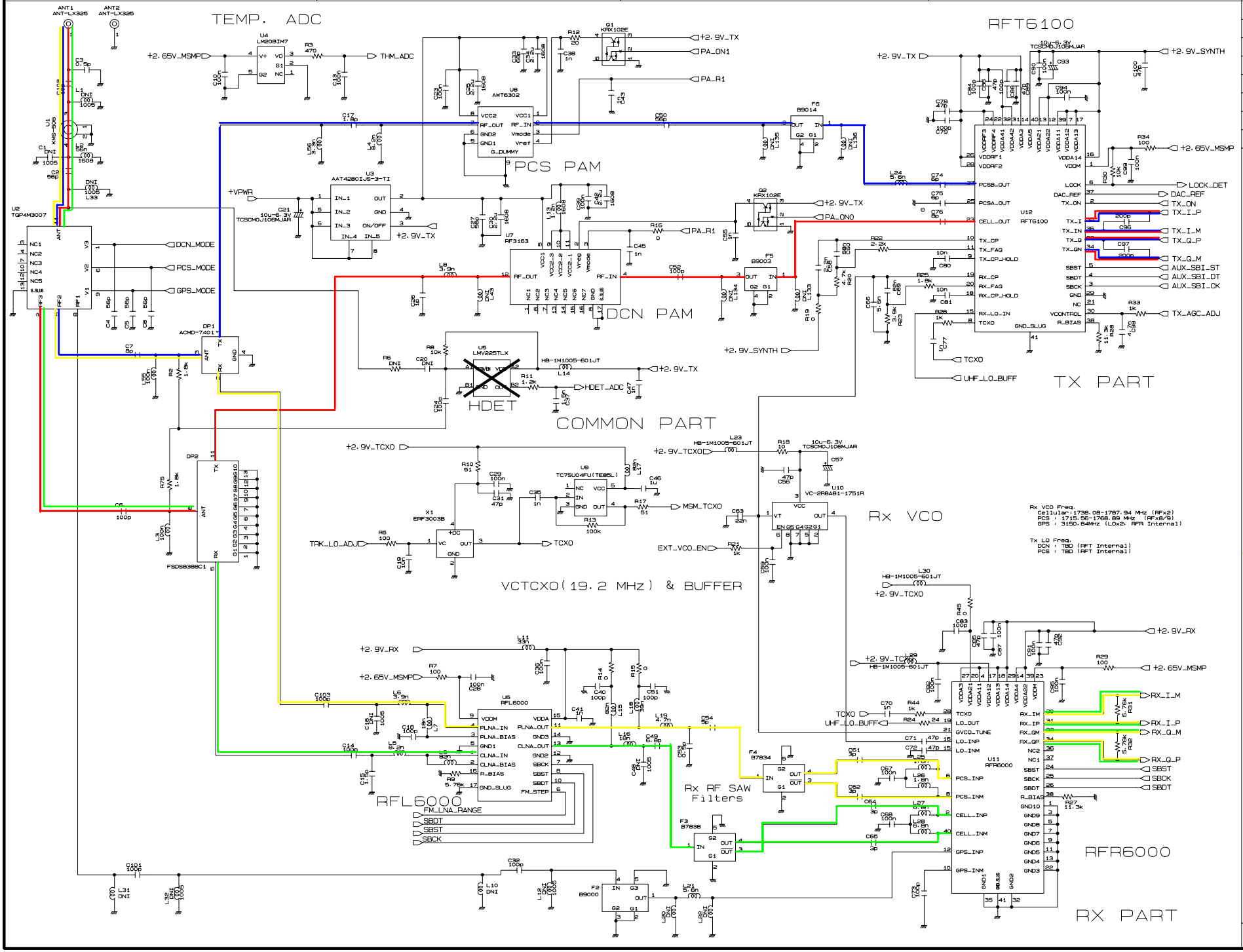
Doc. Name	MX500(FOX) MAIN B'D	Doc. Number	



SHEET	: 1 OF 7
DRAW	: T. H. Kwon
DATE	2005. 4. 23
CHKD	S. H. LEE
APRD	Y. S. SONG
REF	
MAN	
ISSUE	: Rev 1.1
CONTENT	:

Change

2005. 3. 25
C3 : DNI -> 0.5P

2005. 4. 23
R1 : 0 -> 10pF(C102)
R4 : 0 -> 100pF(C103)
C7 : 8p -> 100p
C12 : 12p -> 3.9nH(L56)
C17 : 100p -> 1.8p
L4 : 3.9n -> 8.2n
L6 : 3.3n -> 3.9n
F1 : DSA321SA-19.2M
-> ERF3003B(X1)
U10 : MGK300B1G75
-> VC-2R8ZB1-1751J
postion change : L43 <-> C26

Add

2005. 3. 25
R44 : 1K

Delete

2005. 3. 25
C102 : DNI

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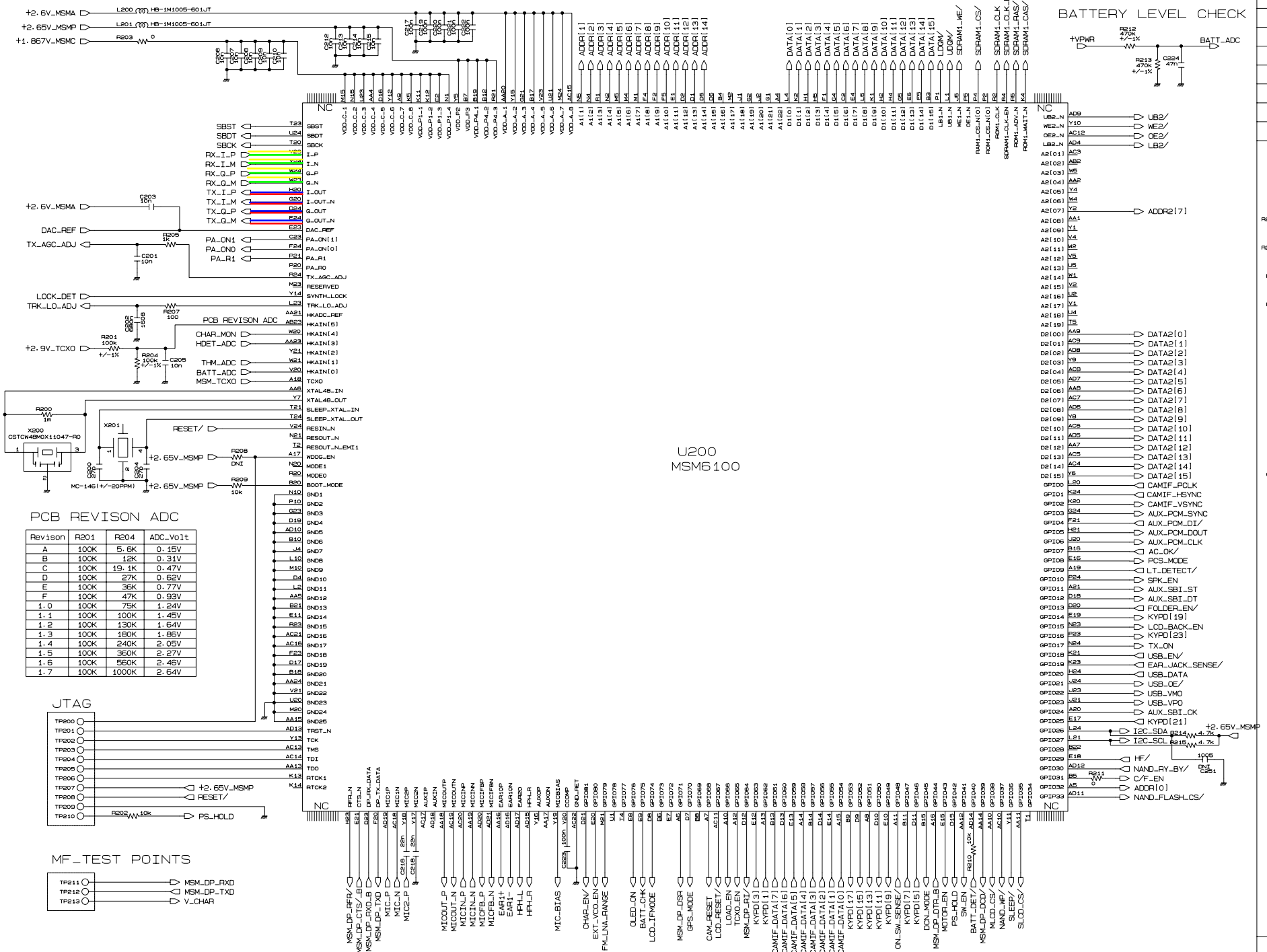
Doc. Name	MX500(FOX) MAIN B'D	Doc. Number	

SHEET : 2 OF 7
DRAW : M. S. Kim
DATE : 2005.4.23
CHKD : S. H. LEE
APRD : Y. S. SONG
REF
MAN
ISSUE : Rev 1.1
CONTENT :



PCB REVISON ADC

Revison	R201	R204	ADC_Volt
A	100K	5.6K	0.15V
B	100K	12K	0.31V
C	100K	19.1K	0.47V
D	100K	27K	0.62V
E	100K	36K	0.77V
F	100K	47K	0.93V
1.0	100K	75K	1.24V
1.1	100K	100K	1.45V
1.2	100K	130K	1.64V
1.3	100K	180K	1.86V
1.4	100K	240K	2.05V
1.5	100K	360K	2.27V
1.6	100K	560K	2.46V
1.7	100K	1000K	2.64V

Change

2005.3.25
R204 : 27K -> 36K

2005.4.23
R204 : 36K(1%) -> 47K(1%)

2005.5.1
R204 : 47K(1%) -> 75K(1%)

2005.5.23
R204 : 75K(1%) -> 100K(1%)

Add

2005.5.23
C251 : DNI

Delete

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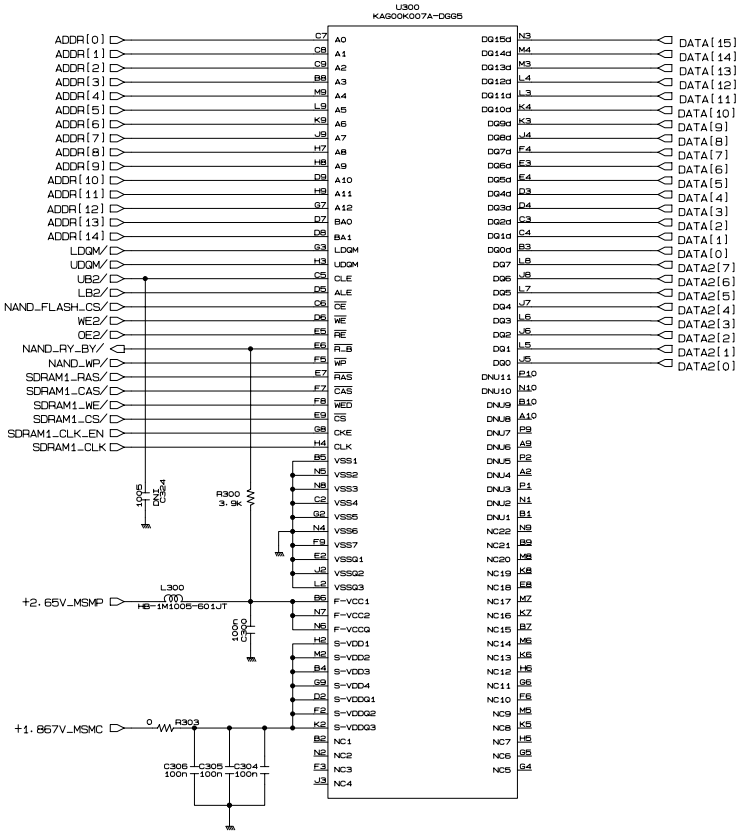
Doc. Name	MX500(FOX) MAIN B'D	Doc. Number	

SHEET : 3 OF 7
DRAW : M. S. Kim
DATE 2005.4.23
CHKD S. H. LEE
APRD Y. S. SONG
REF
MAN
ISSUE : Rev 1.1
CONTENT :

MEMORY
(NAND 1G + SDRAM 256M)



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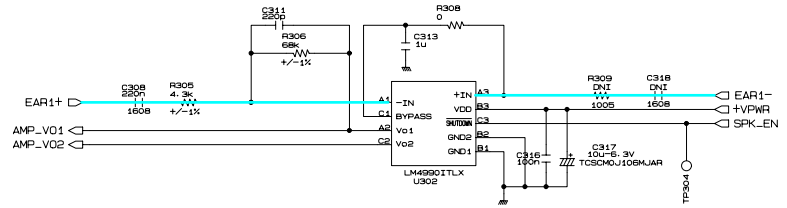
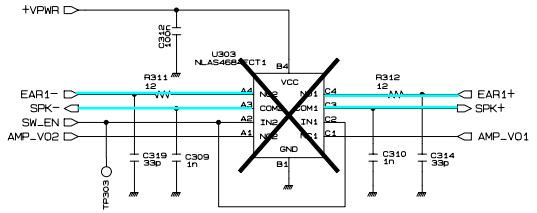
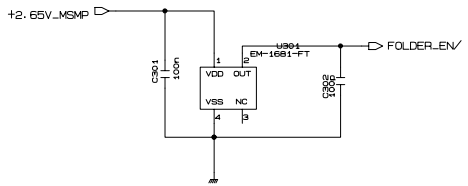


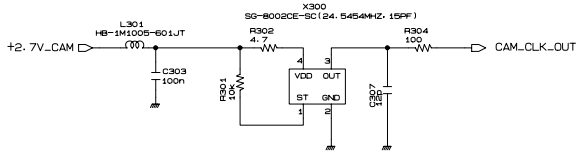
<AUDIO SWITCH>



<FOLDER SENSOR SW>



CAMERA OSCILLATOR



Change
2005.3.25
C318 : 220n(1608) -> DNI
R305 : 4.7k -> 4.7k(1%)
R306 : 68k -> 68k(1%)
AUDIO PATH CHANGE
U301 : EC2648F -> EM-1681-FT

Add
2005.3.25
C319 : 33p
TP304

Delete
2005.3.25
R310 , R307

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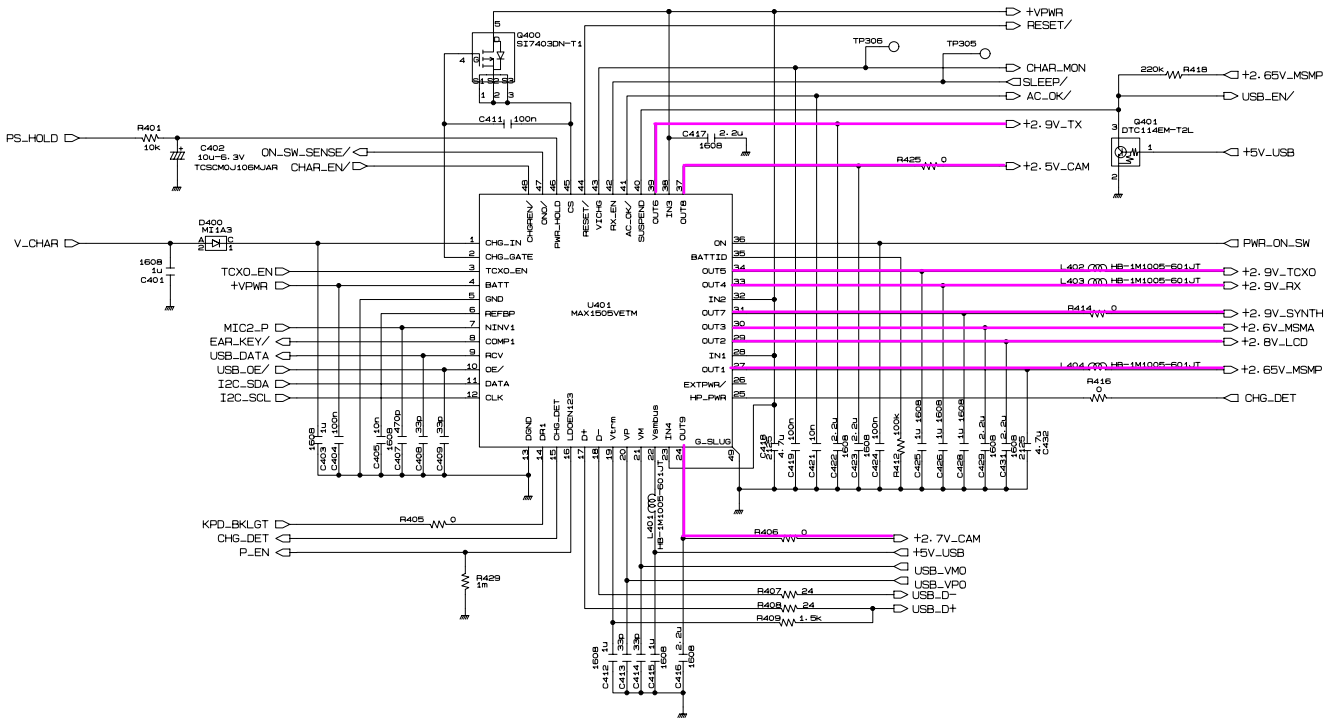
Doc. Name	MX500(FOX) MAIN B'D	Doc. Number	

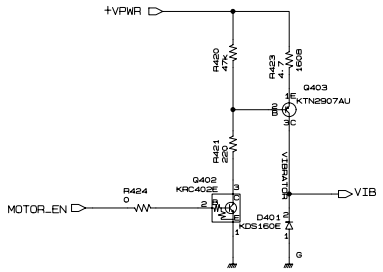
SHEET : 4 OF 7
DRAW : M. S. Kim
DATE 2005.4.23
CHKD S. H. LEE
APRD Y. S. SONG
REF
MAN
ISSUE : Rev 1.1
CONTENT :

POWER MANAGEMENT IC

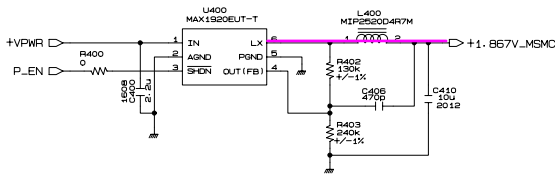


Inner Charger
9 LDOs
1 Driver
1 Comparator
Reset
USB Transceiver
I2C Interface
Power Switch Circuit

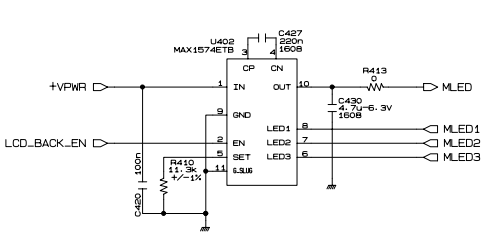
<MOTOR>



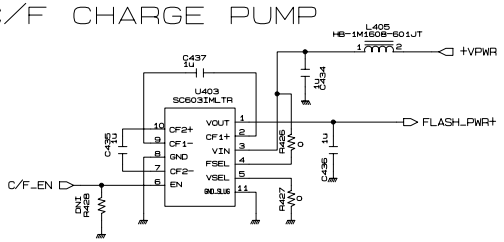
+1.867V MSMC DC/DC



WHITE LED DC/DC



C/F CHARGE PUMP



Change

2005.4.23
C401, C403, C412, C415, C425, C426, C428 : C1608Y5V1A105ZT
-> GRM39X5R105K6.3PT
C400, C416, C417, C422, C423, C429, C431 : C1608Y5V1A225ZT
-> GRM39X5R225K6.3

Add

2005.3.25
R429 : 1M

Delete

2005.4.23
C433

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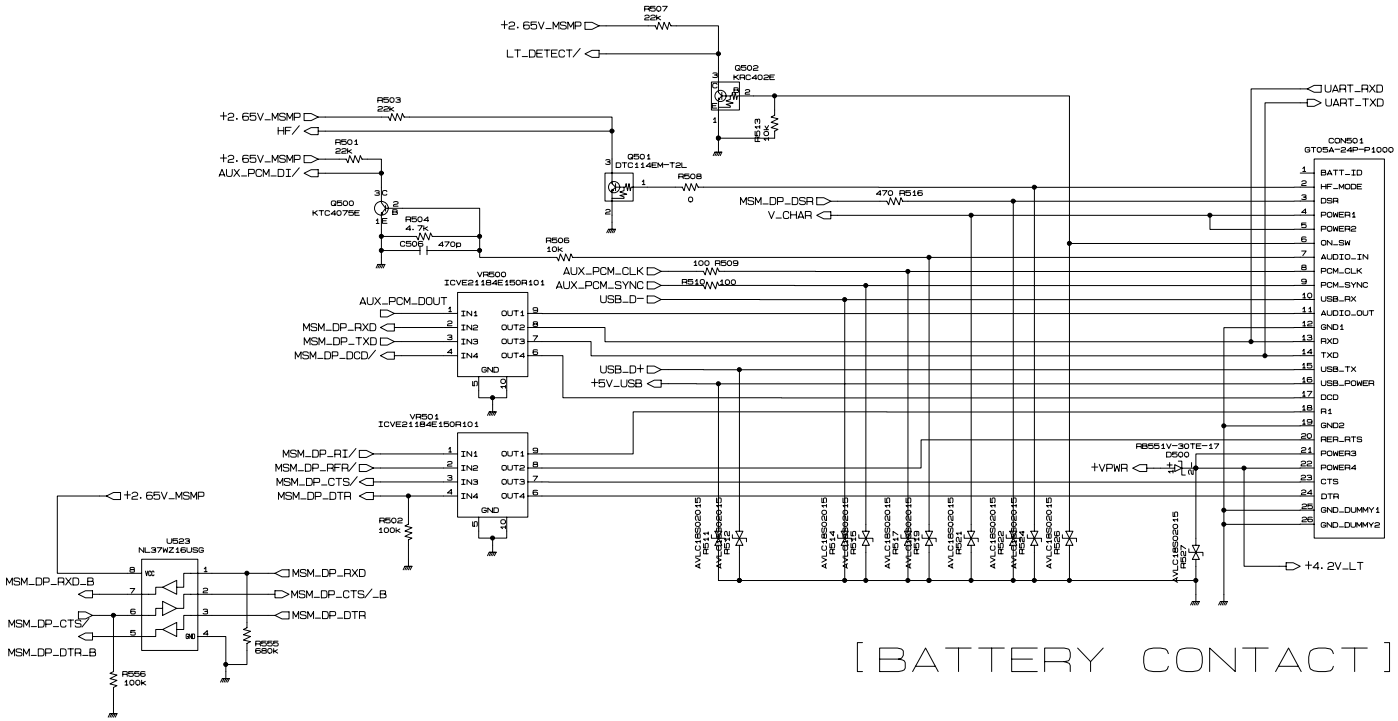
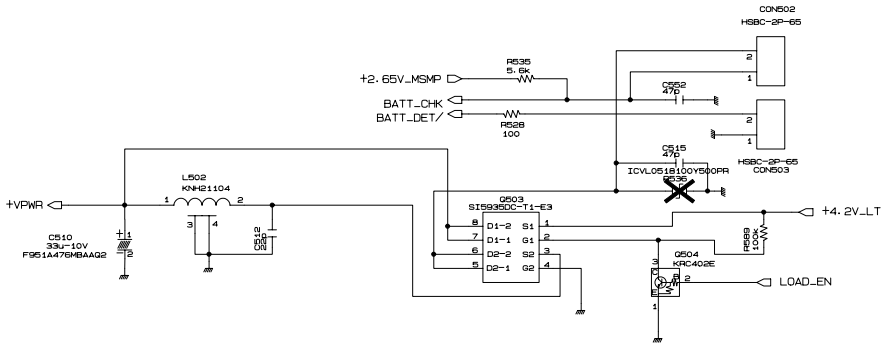
Doc. Name	MX500(FOX) MAIN B'D	Doc. Number	

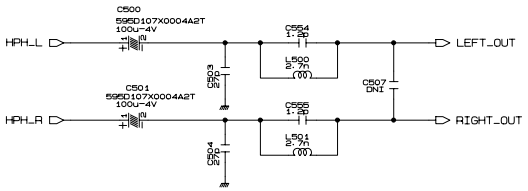
<RECEPTACLE CONNECTOR>



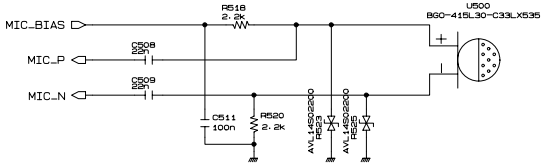
[BATTERY CONTACT]



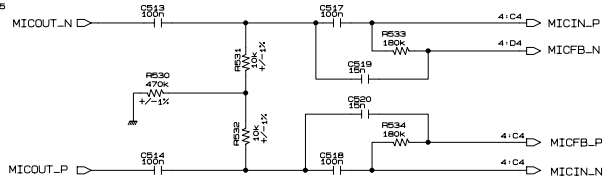
STEREO



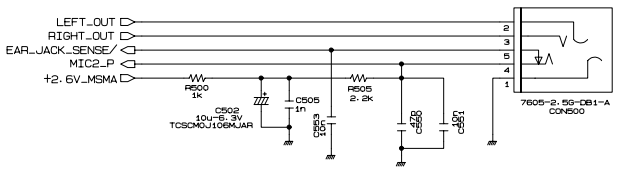
MIC INPUT



MIC FILTER NETWORK



EAR JACK



SHEET	: 5 OF 7
DRAW	: M. S. Kim
DATE	2005.4.23
CHKD	S. H. LEE
APRD	Y. S. SONG
REF	
MAN	
ISSUE	: Rev 1.1
CONTENT	:

Change

2005.3.25
Q501 : KTC4075V -> DTC114EM-T2L
C515 : 22p -> 47p
C500.C501 : 22u/6.3V -> 595D107X0004A2T(100u/4V)

2005.4.23
net : Q501 pin3 <-> pin5 swap
net : U503 singal change
ref : Q501 -> Q503
ref : Q502 -> Q504
U523 : NC7NZ34K8X -> NL37WZ16USG
C503.C504 : 33p -> 27p
C551 : DNI -> 10n
L500.L501 : HB-1M1005-601JT -> 2.7nH
C550 : 56p -> 47p

2005.5.23
R502 : 32K -> 100K

Add

2005.3.25
R536 : ICVL0518100Y500PR

2005.4.23
C553 : 10n
C554.C555 : 10n

2005.5.23
R555 : 680K
R556 : 100K

Delete

LG

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Doc. Name	MX500(FOX) MAIN B'D	Doc. Number	

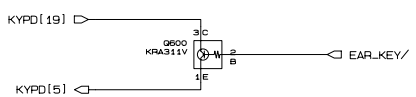
SHEET : 6 OF 7
DRAW : M. S. Kim
DATE 2005.4.23
CHKD S. H. LEE
APRD Y. S. SONG
REF
MAN
ISSUE : Rev 1.1
CONTENT :

Change

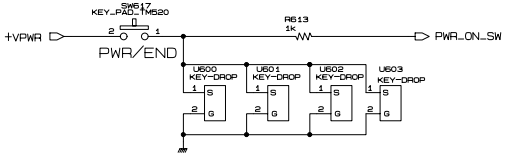
Add

Delete

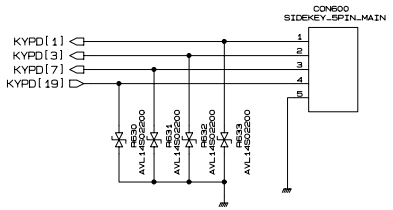
EAR BUTTON DETECTION



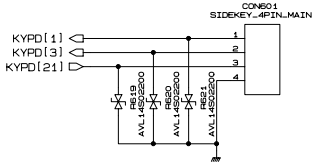
POWER SWITCH



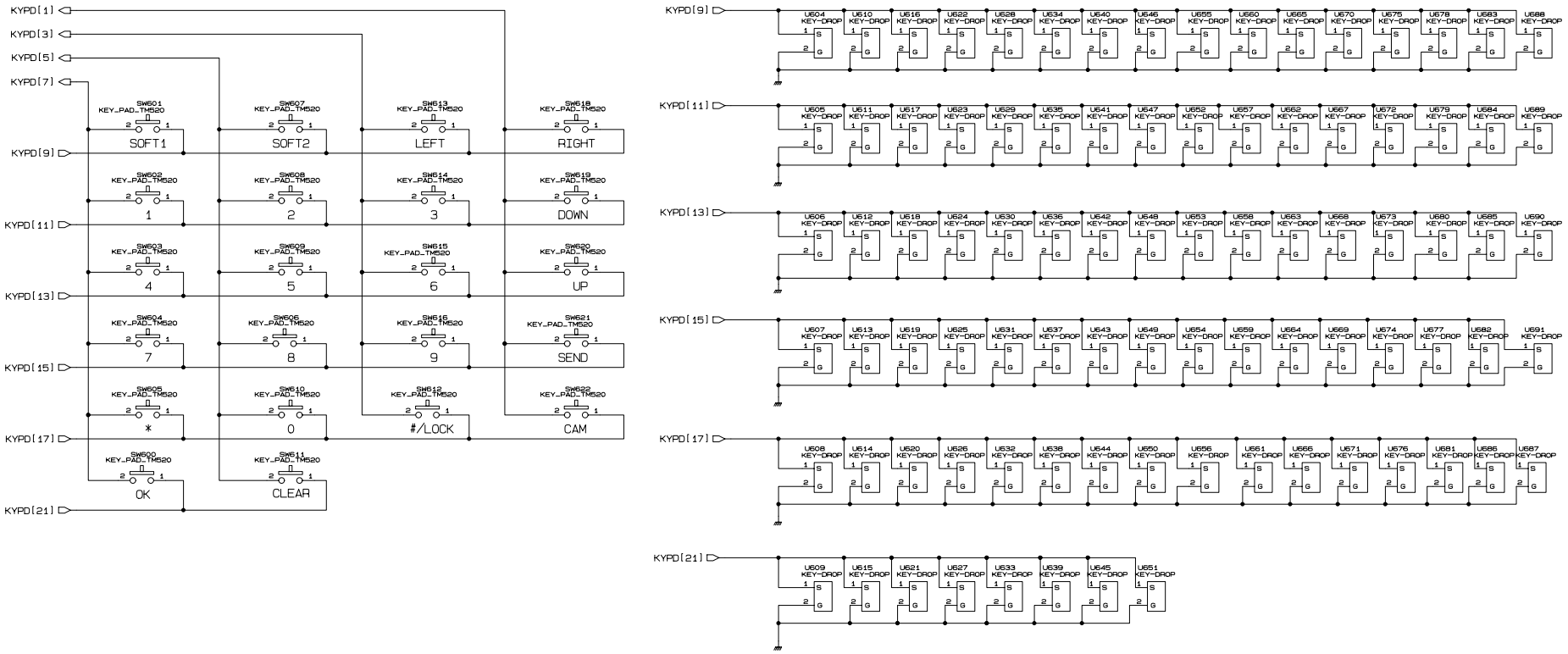
SIDE KEY(RIGHT)



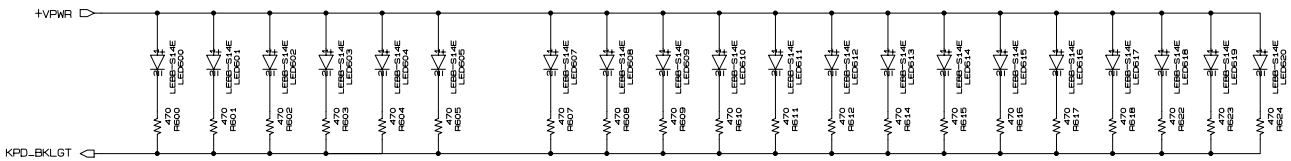
SIDE KEY(LEFT)



KEY PAD CIRCUIT



KEY PAD BACKLIGHT CIRCUIT



LG

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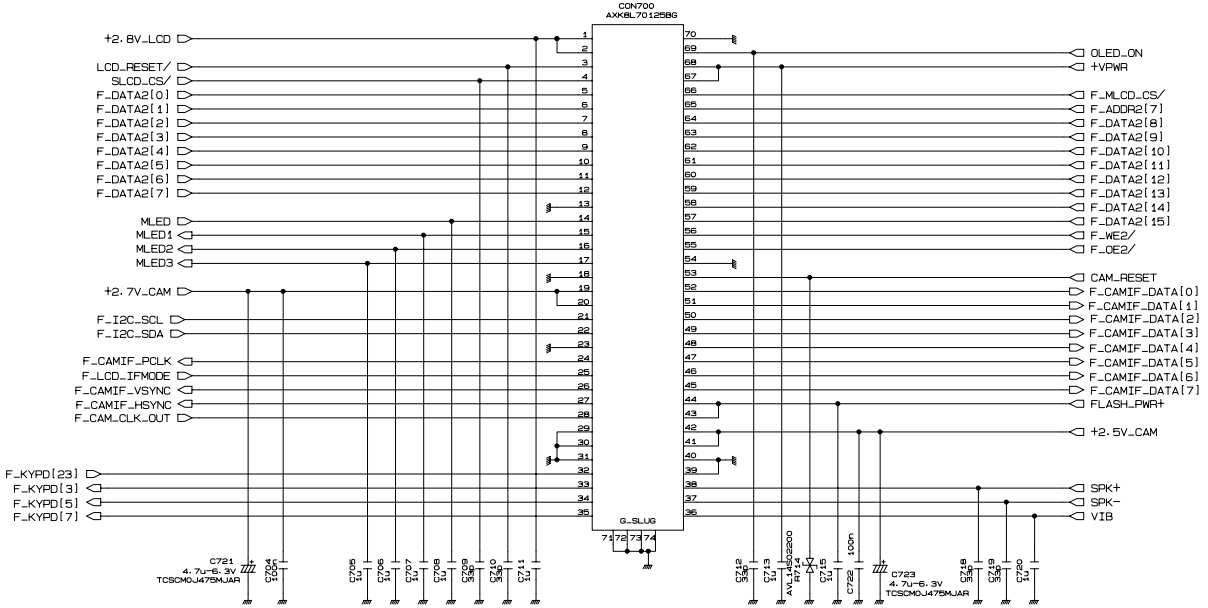
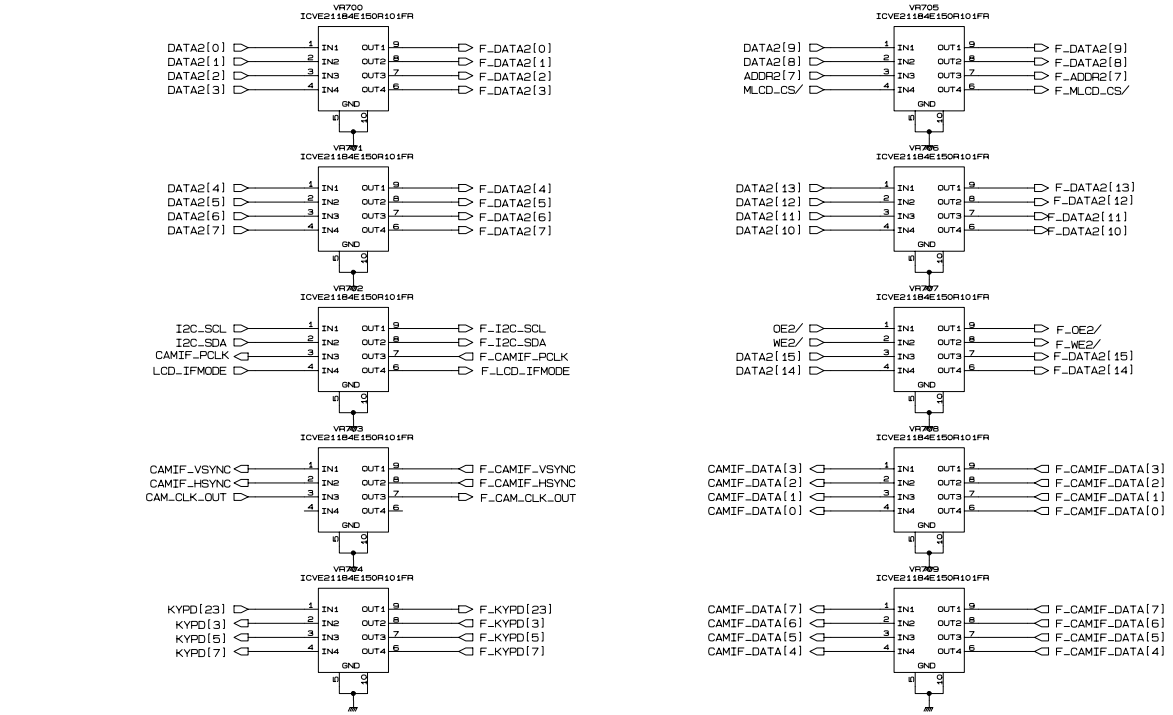
Doc. Name	MX500(FOX) MAIN B'D	Doc. Number	

<FPCB 70 PIN CONNECTOR>





SHEET	: 7 OF 7
DRAW	: M. S. Kim
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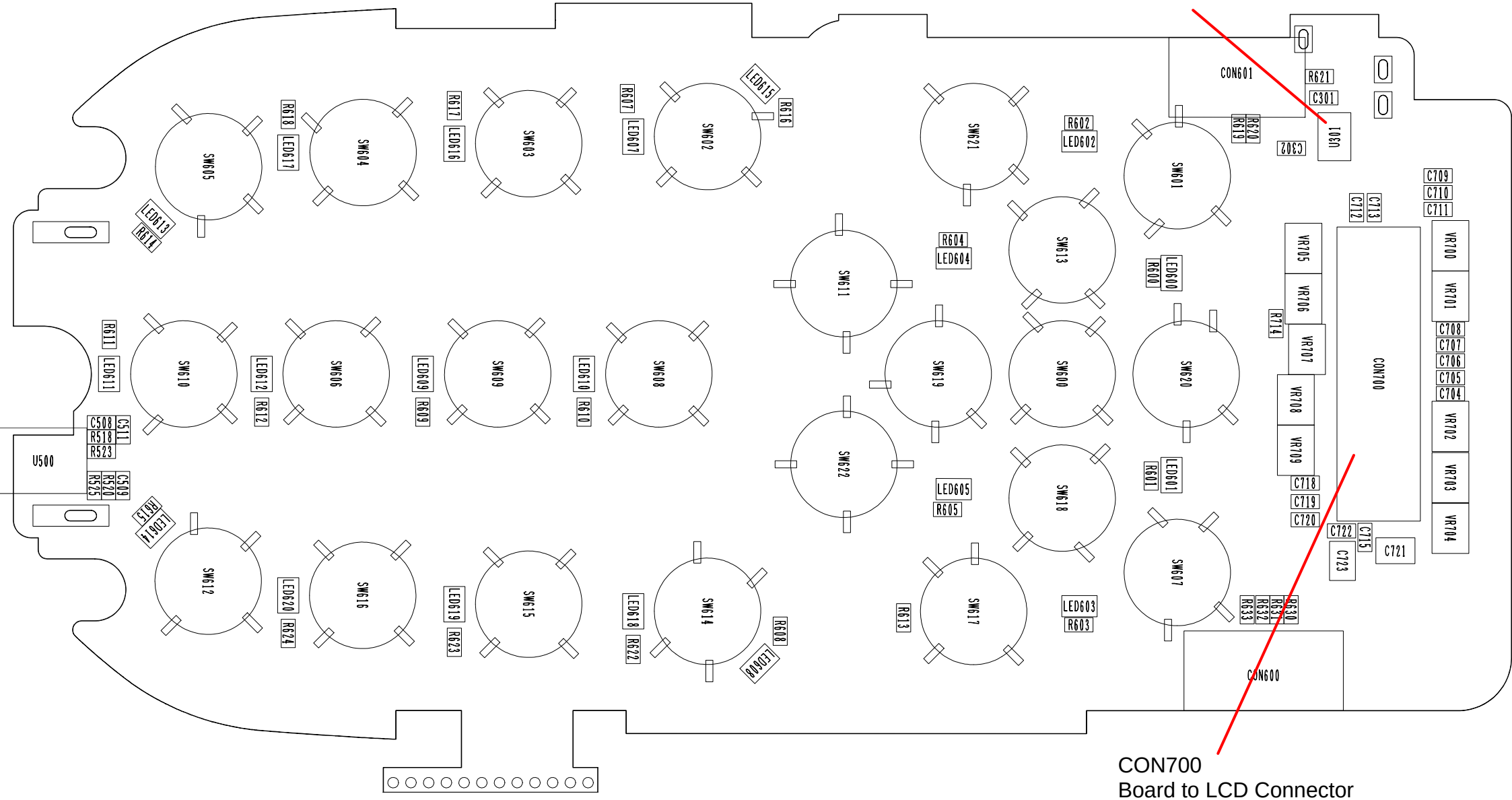
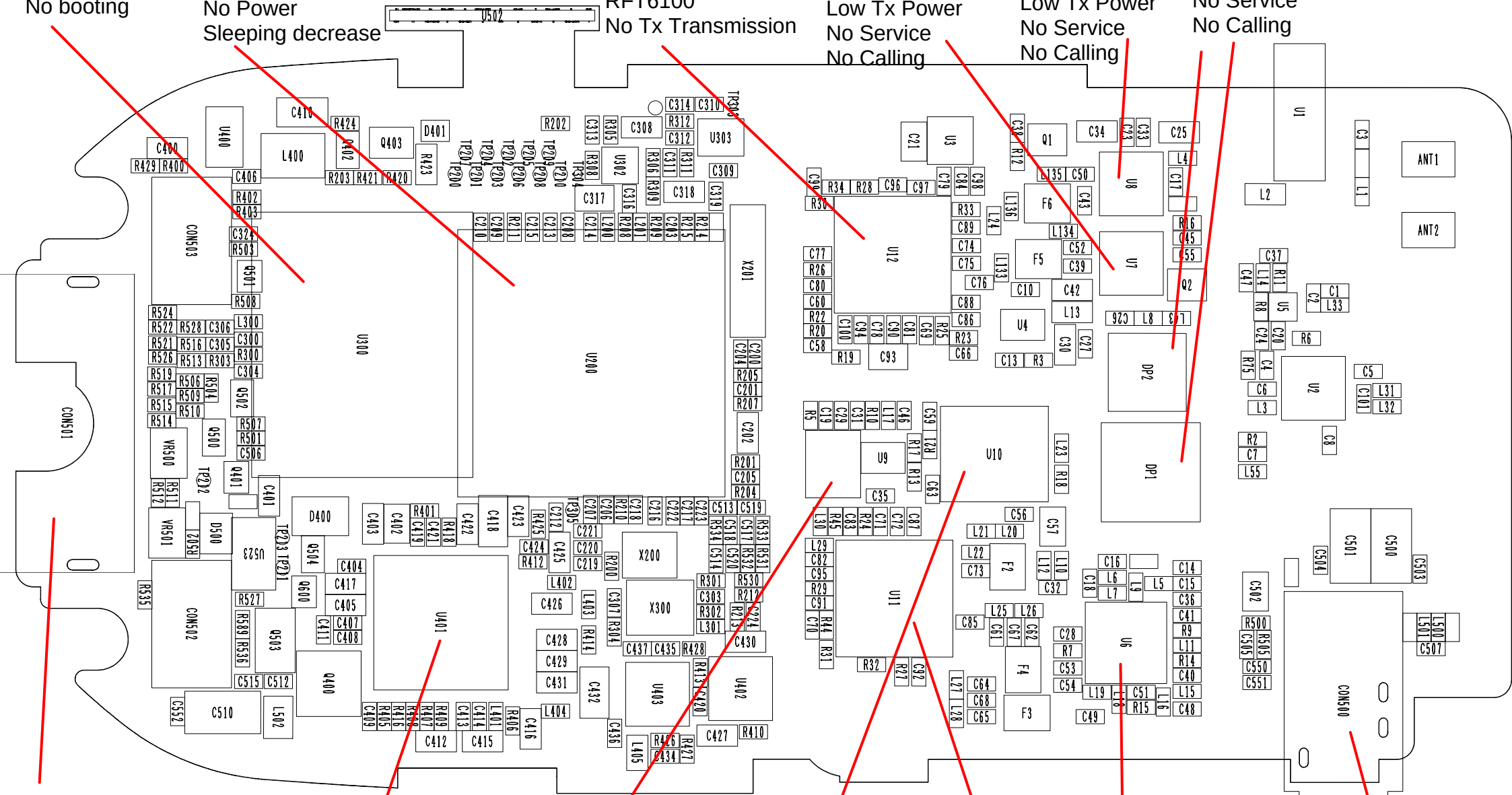
THE TOP OF MAIN PCB (MX500)



THE BOTTOM OF MAIN PCB (MX500)