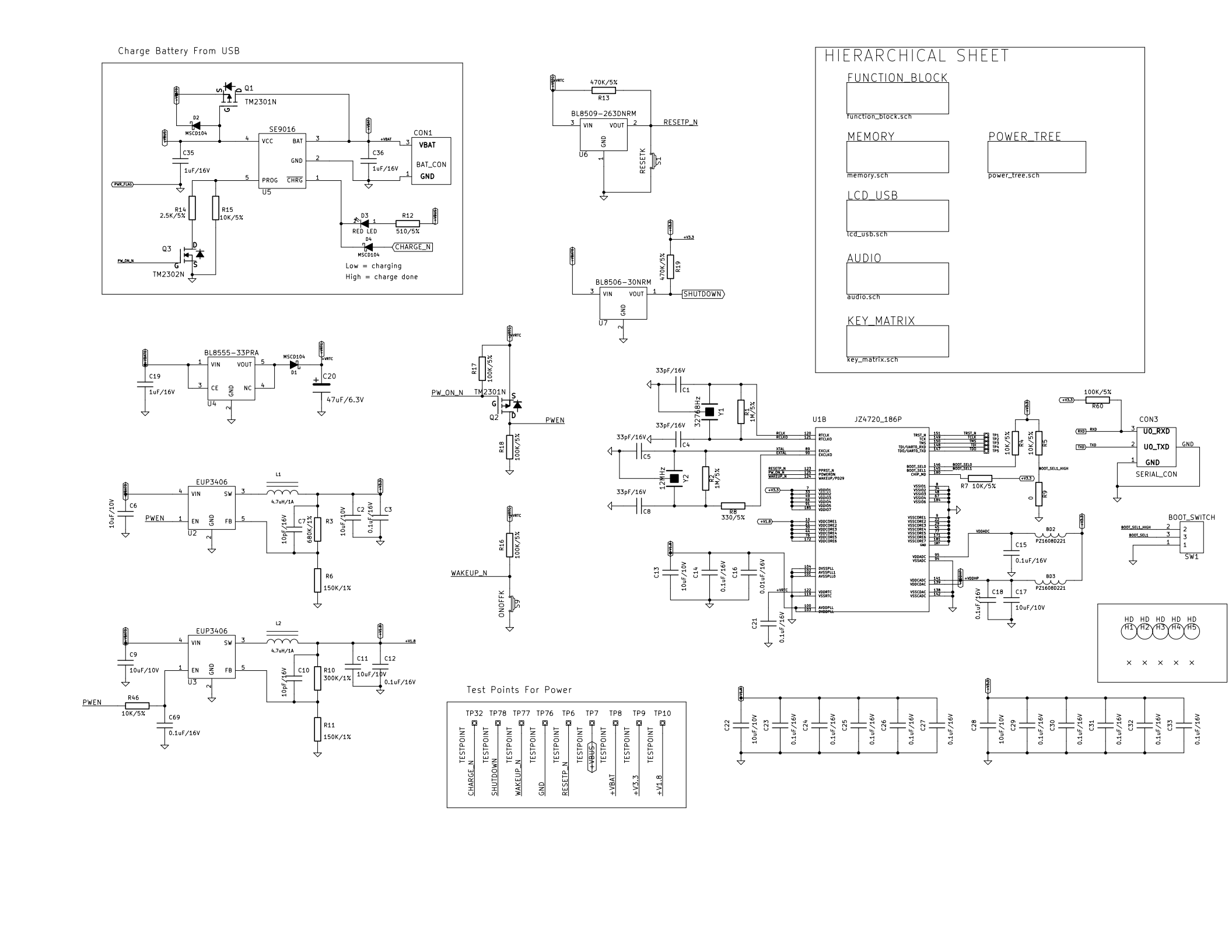
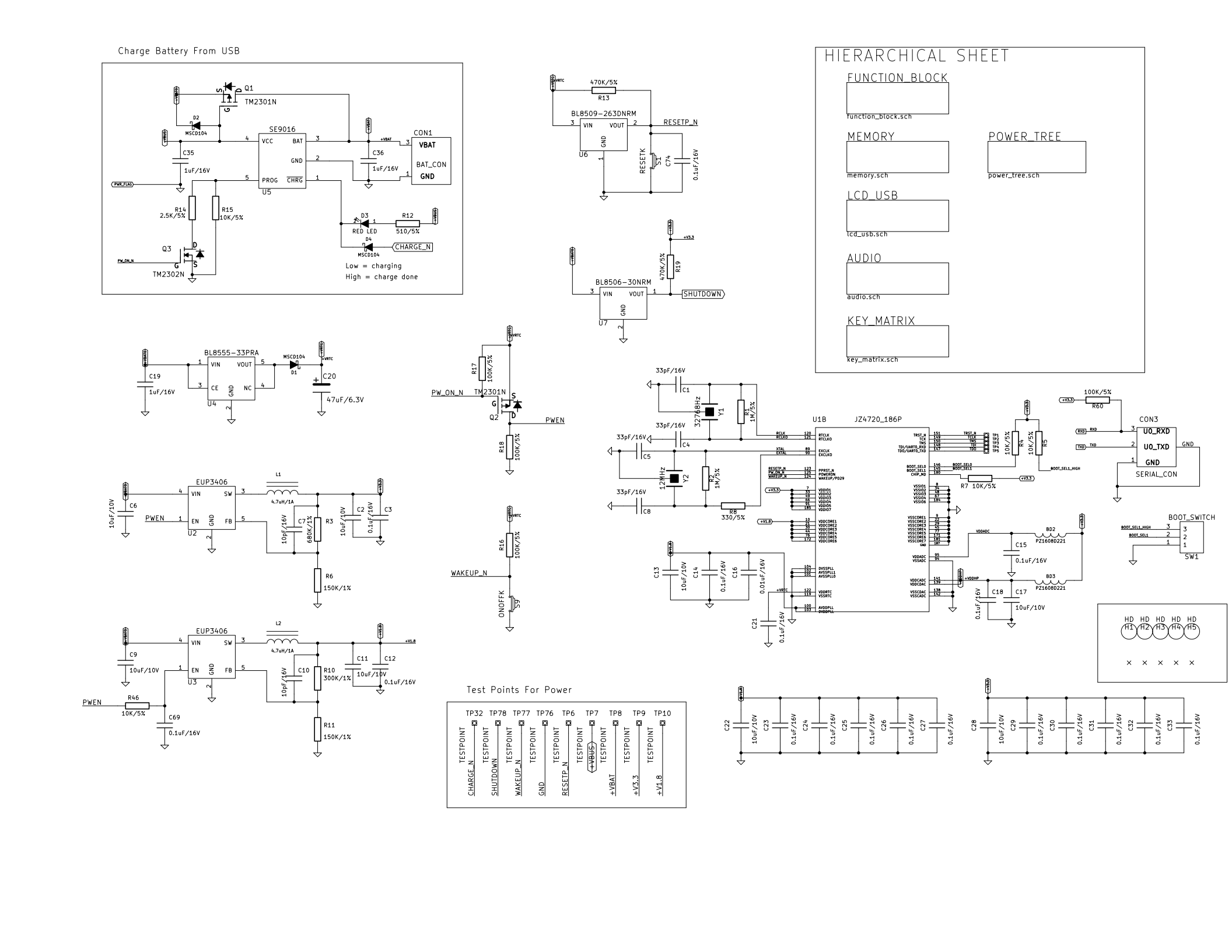

Charge Battery From USB
Q1
TM2301N
D2
MSCD104
SE9016
VCC
BAT
GND
PROG
CHRG
U5
CON1
VBAT
BAT_CON
GND
C35
1uF/16V
C36
1uF/16V
PWR_FLAG
R14
2.5K/5%
R15
10K/5%
D3
RED LED
R12
510/5%
D4
MSCD104
CHARGE_N
Q3
TM2302N
PW_ON_N
Low = charging
High = charge done
HIERARCHICAL SHEET
FUNCTION_BLOCK
function_block.sch
MEMORY
memory.sch
POWER_TREE
power_tree.sch
LCD_USB
lcd_usb.sch
AUDIO
audio.sch
KEY_MATRIX
key_matrix.sch
470K/5%
R13
BL8509-263DNRM
VIN
VOUT
GND
RESETP_N
U6
RESETK
S1
BL8506-30NRM
R19
SHUTDOWN
U7
BL8555-33PRA
MSCD104
C19
1uF/16V
C20
47uF/6.3V
U4
R17
100K/5%
PW_ON_N
TM2301N
Q2
PWEN
R18
100K/5%
WAKEUP_N
R16
100K/5%
ONOFFK
S9
EUP3406
L1
4.7uH/1A
C6
10uF/10V
C7
10pF/16V
R3
680K/1%
C2
10uF/10V
C3
0.1uF/16V
R6
150K/1%
U2
EUP3406
L2
4.7uH/1A
C9
10uF/10V
C10
10pF/16V
R10
300K/1%
C11
10uF/10V
C12
0.1uF/16V
R11
150K/1%
U3
R46
10K/5%
C69
0.1uF/16V
33pF/16V
C1
32768Hz
Y1
R1
1M/5%
C4
C5
12MHz
Y2
R2
1M/5%
R8
330/5%
C8
U1B
JZ4720_186P
C13
10uF/10V
C14
0.1uF/16V
C16
0.01uF/16V
C21
0.1uF/16V
R4
10K/5%
R5
10K/5%
R7 10K/5%
R9
0
BD2
PZ1608D221
C15
0.1uF/16V
BD3
PZ1608D221
C18
0.1uF/16V
C17
10uF/10V
100K/5%
R60
CON3
U0_RXD
U0_TXD
GND
SERIAL_CON
BOOT_SWITCH
SW1
HD H1
HD H2
HD H3
HD H4
HD H5
Test Points For Power
TP32 TESTPOINT CHARGE_N
TP78 TESTPOINT SHUTDOWN
TP77 TESTPOINT WAKEUP_N
TP76 TESTPOINT GND
TP6 TESTPOINT RESETP_N
TP7 TESTPOINT +VBUS
TP8 TESTPOINT +VBAT
TP9 TESTPOINT +V3.3
TP10 TESTPOINT +V1.8
C22
C23
C24
C25
C26
C27
C28
C29
C30
C31
C32
C33
10uF/10V
0.1uF/16V


Charge Battery From USB
Q1
TM2301N
D2
MSCD104
SE9016
VCC
BAT
GND
PROG
CHRG
U5
CON1
VBAT
BAT_CON
GND
C35
1uF/16V
C36
1uF/16V
PWR_FLAG
R14
2.5K/5%
R15
10K/5%
D3
RED LED
R12
510/5%
D4
MSCD104
CHARGE_N
Q3
TM2302N
PW_ON_N
Low = charging
High = charge done
HIERARCHICAL SHEET
FUNCTION_BLOCK
function_block.sch
MEMORY
memory.sch
POWER_TREE
power_tree.sch
LCD_USB
lcd_usb.sch
AUDIO
audio.sch
KEY_MATRIX
key_matrix.sch
470K/5%
R13
BL8509-263DNRM
VIN
VOUT
GND
RESETP_N
U6
RESETK
S1
C74
0.1uF/16V
BL8506-30NRM
470K/5%
R19
SHUTDOWN
U7
BL8555-33PRA
MSCD104
C19
1uF/16V
C20
47uF/6.3V
U4
R17
100K/5%
PW_ON_N
TM2301N
Q2
PWEN
R18
100K/5%
EUP3406
L1
4.7uH/1A
C6
10uF/10V
PWEN
C7
10pF/16V
680K/1%
R3
C2
10uF/10V
C3
0.1uF/16V
R6
150K/1%
U2
R16
100K/5%
WAKEUP_N
ONOFFK
S9
EUP3406
L2
4.7uH/1A
C9
10uF/10V
C10
10pF/16V
R10
300K/1%
C11
10uF/10V
C12
0.1uF/16V
R11
150K/1%
U3
PWEN
R46
10K/5%
C69
0.1uF/16V
Test Points For Power
TP32 TP78 TP77 TP76 TP6 TP7 TP8 TP9 TP10
CHARGE_N
SHUTDOWN
WAKEUP_N
GND
RESETP_N
+VBUS
+VBAT
+V3.3
+V1.8
TESTPOINT
33pF/16V
C1
32768Hz
Y1
R1
1M/5%
C4
C5
12MHz
Y2
R2
1M/5%
R8
330/5%
C8
U1B
JZ4720_186P
C13
10uF/10V
C14
0.1uF/16V
C16
0.01uF/16V
C21
0.1uF/16V
R4
10K/5%
R5
10K/5%
R7 10K/5%
BOOT_SEL1_HIGH
100K/5%
R60
CON3
U0_RXD
U0_TXD
GND
SERIAL_CON
BOOT_SWITCH
SW1
BD2
PZ1608D221
BD3
PZ1608D221
C15
0.1uF/16V
C17
10uF/10V
C18
0.1uF/16V
HD H1
HD H2
HD H3
HD H4
HD H5
C22
C23
C24
C25
C26
C27
C28
C29
C30
C31
C32
C33