

RF BLOCK DIAGRAM

REVISIONS			
REV	DATE	DESCRIPTION	BY

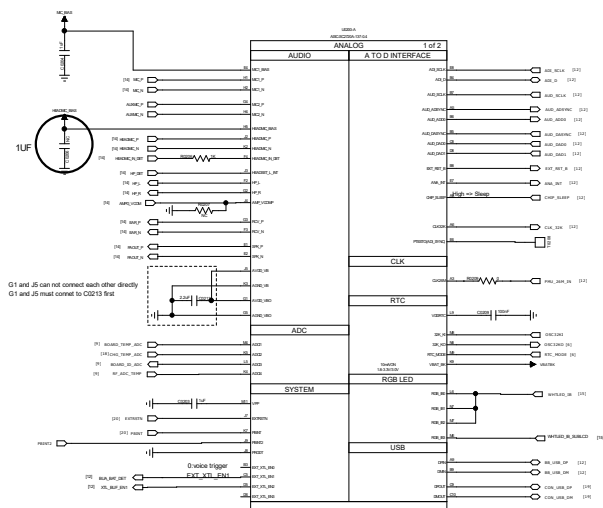
DESIGNED BY		DATE		REVISION	
DRAWN BY		DATE		REVISION	
CHECKED BY		DATE		REVISION	
APPROVED BY		DATE		REVISION	

REVISIONS RECEIVED			
DATE	ISSUED	APPROVED	DATE

		TELEPHONE	
		ORGANIZATION	
ADDRESS	CITY	DEPARTMENT	
ZIP	CITY	COUNTRY	
APPROVED	CITY	CONSENSUAL AND PROPORTION	

REVISION RECORD			
DATE	REVISION	APPROVED	BY

PMU_ANALOG



BKBT



RTC

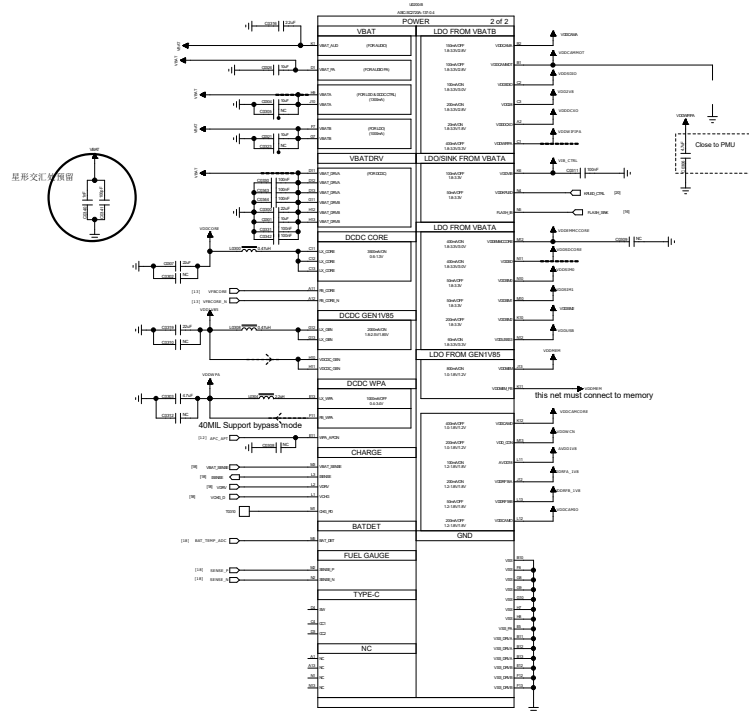


RTC mode select:1(32K-less);0(crystal

RTC Mode	R0204	R0203	X0200	C0201	C0202	R0202	R0214
32K Crystal	NF	0R	Crystal	8.2pF	8.2pF	0R	NF
32K-less	10K	NF	NF	NF	NF	NF	0R

		TOLUENE	
		EQUIPMENT NO.	
CONCENTR.	UNIT	CONCENTRATION	
TEMP.	UNIT	TEMPERATURE	
SAMPLES	UNIT	ANALYSIS	

PMU_POWER



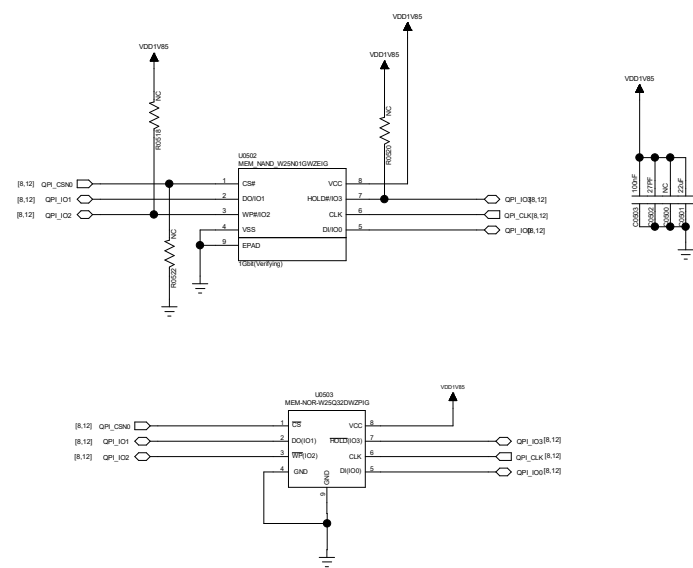
SC2720 DCDC output

Input Power	Power Name	Output Voltage (V)	Output Current	Default Voltage	Default
VBAT	DCDCCORE	0.4-1.4	3500mA	0.9V	ON
	DCDCGEN1V8	1.6-2.1	2000mA	1.85V	ON
	DCDCWPA	0.4-3.4 2x and 2.5x ramp	1000mA		OFF

SC2720 LDO output

Input Power	Power Name	Output Voltage (V)	Output Current	Default Voltage	Default
LDO from VBAT	VDDCAMA	1.8-3.3	150mA	2.8V	OFF
	VDDCMMOT	1.8-3.3	100mA	2.8V	OFF
	VDDSIM0	1.8-3.3	50mA		OFF
	VDDSIM1	1.8-3.3	50mA		OFF
	VDDSIM2	1.8-3.3	200mA		OFF
	VDDMMCCORE	1.8-3.3	400mA	3.0V	ON
	VDDSD	1.8-3.3	400mA	3.0V	ON
	VDDSDIO	1.8-3.3	400mA	3.0V	ON
	VDD28	1.8-3.3	200mA	2.8V	ON
	VBATBK	1.8-3.3	10mA	3.0V	ON
	VDDVIB	1.8-3.3	100mA		OFF
	VDDKPLED	1.8-3.3	50mA		OFF
	VDDWIFIPA	1.8-3.3	400mA	3.3V	OFF
	VDDCCXO	1.8-3.3	20mA	1.8V	ON
	VDDUSB33	1.8-3.3	60mA	3.3V	ON
LDO from DCDCGEN	VDD_MEM	1.0-1.8	800mA	1.2V	ON
	VDDCAMD	1.0-1.8	400mA	1.2V	OFF
	VDDRFB	1.2-1.8	50mA	1.8V	OFF
	VDD_CON	1.0-1.8	200mA	1.2V	OFF
	VDDCAMIO	1.2-1.8	200mA	1.8V	OFF
	AVDD18	1.2-1.8	100mA	1.8V	ON
	VDDRFA	1.2-1.8	200mA	1.8V	ON

SPI FLASH

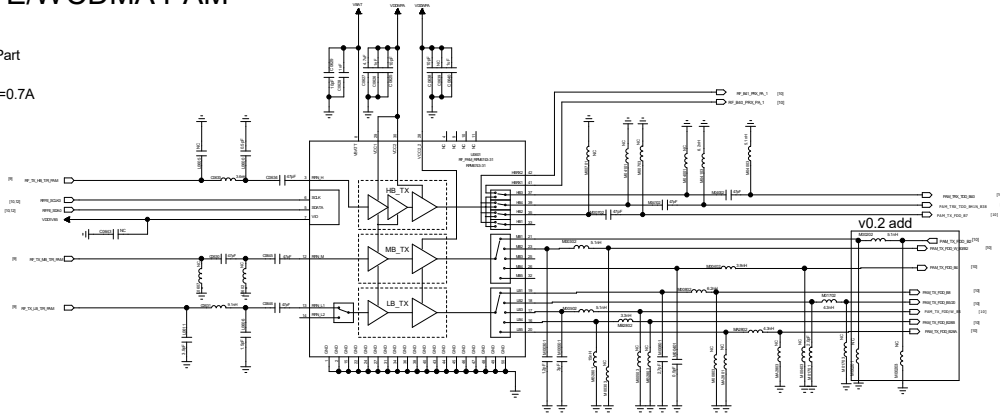


NAND Flash(Backup)

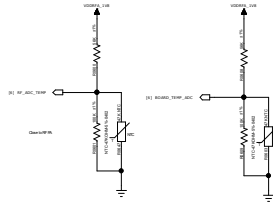
LTE/WCDMA PAM

PA Part

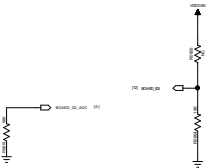
Ipp=0.7A



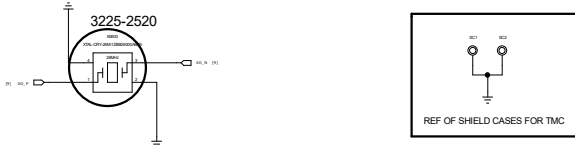
NTC



Band info

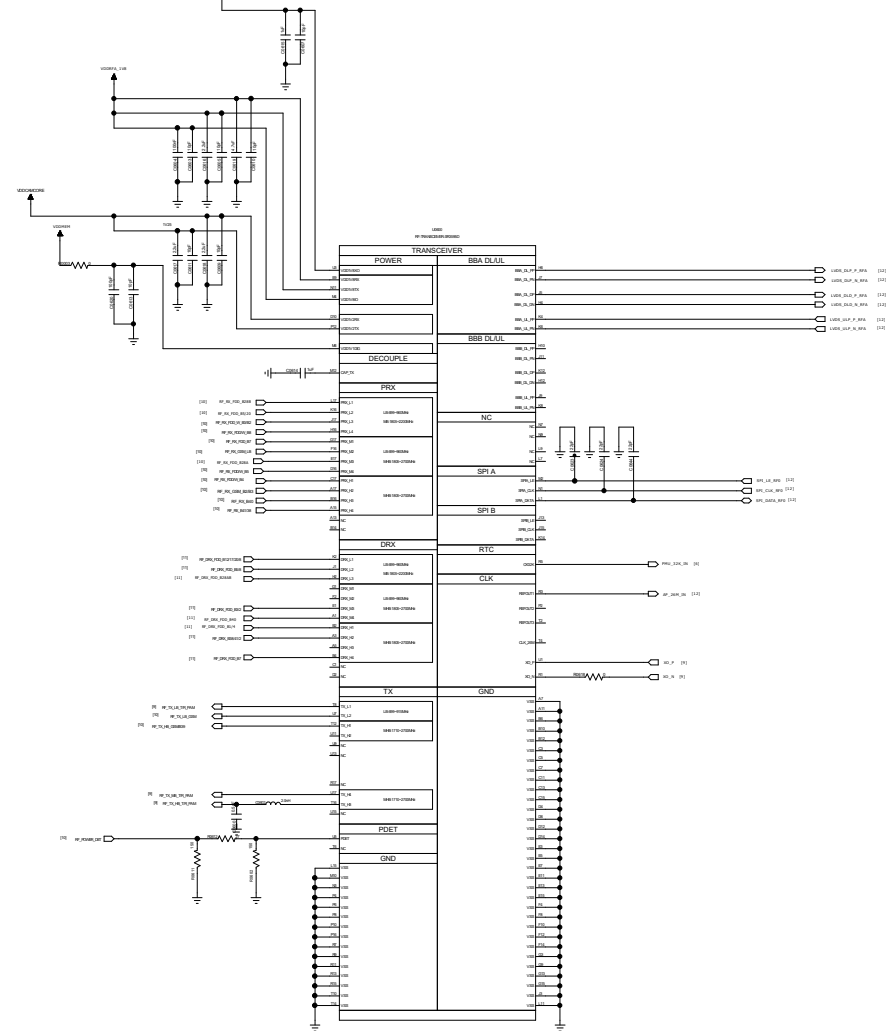


DCXO



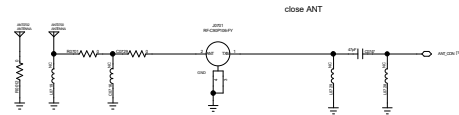
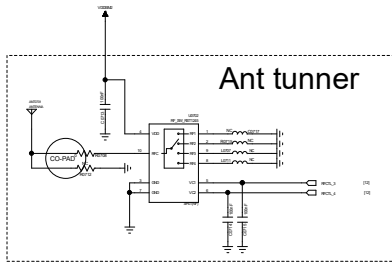
Tranceiver

严格星型走线，各电容单独靠近对应pin脚

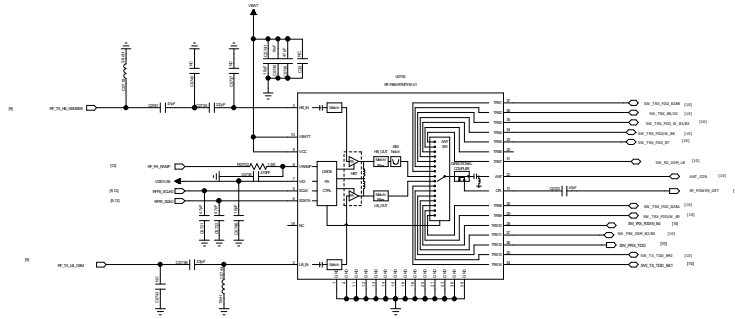


Version		Date		Author	
1.0		2015.10		Hardware DEPT.	
1.1		2016.01		Spectrum communications, Inc.	
1.2		2016.02		Spectrum communications, Inc.	

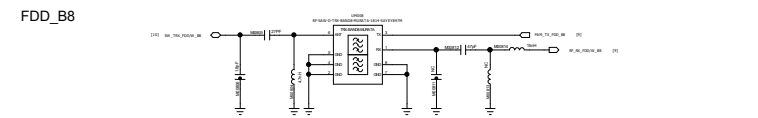
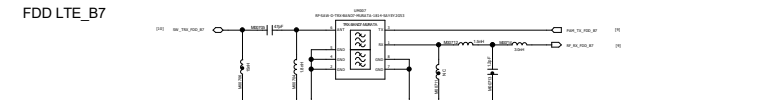
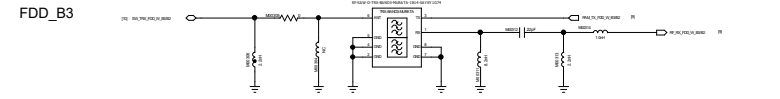
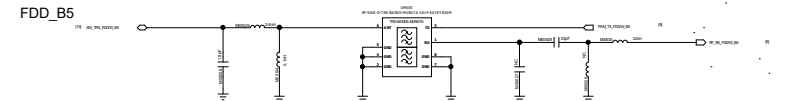
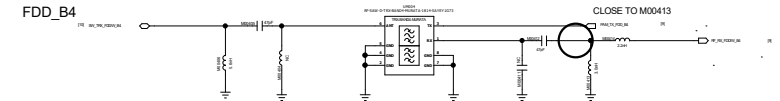
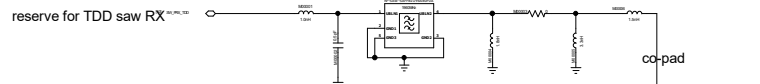
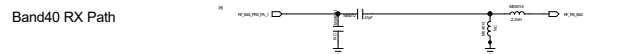
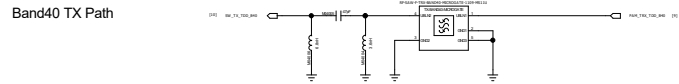
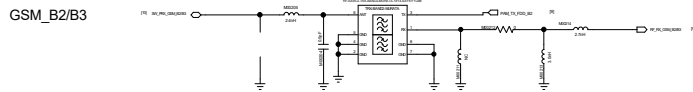
Primary Antenna



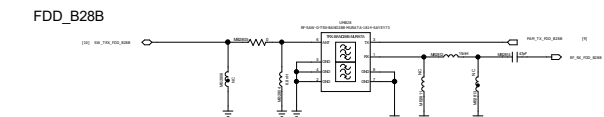
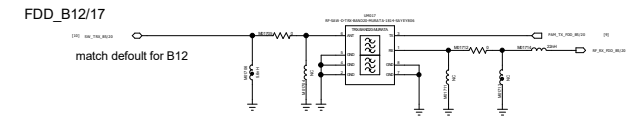
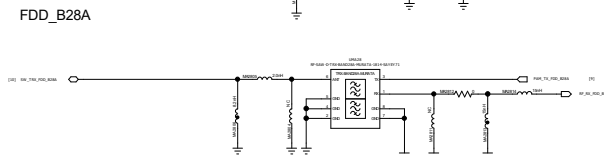
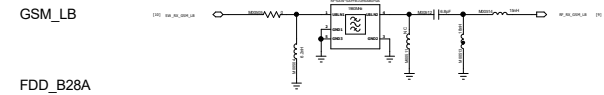
TDD B34/B39/GSM PA + Switch



v0.2 add
UMX02 改成um002



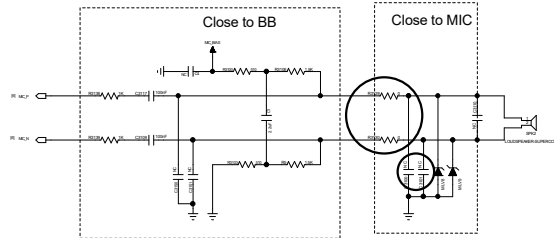
FF606删除一路低频DPX, B5做FDD时使用B20通路



Version:		Hardware DEPT.	
Date:		Spectrum communications, Inc.	
Applicable:		Copyright © 2000	

RECEIVED/RECEIVED			
DATE	RECEIVED	APPROVED	GRAB

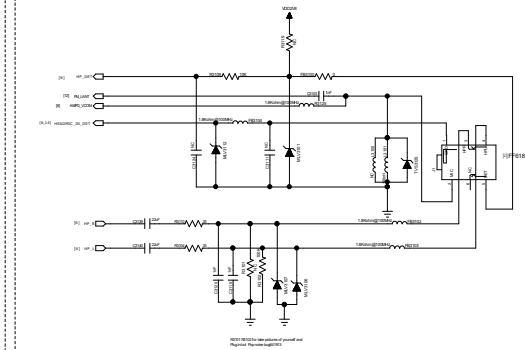
MAIN MIC



AUX MIC

3.5mm Ear Jack

Close to Ear Jack

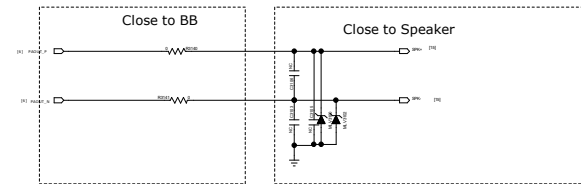


Ear Jack suggest support:

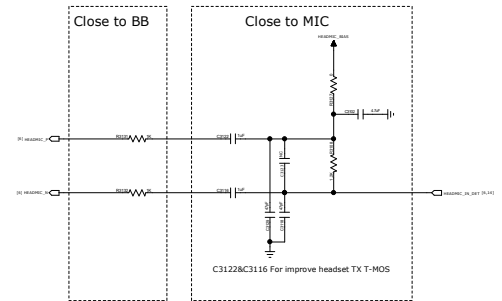
Earphone	Pin 4 & Pin 5
Plug in	Connect
Pull out	Disconnect

L,R,GND,MIC CTIA

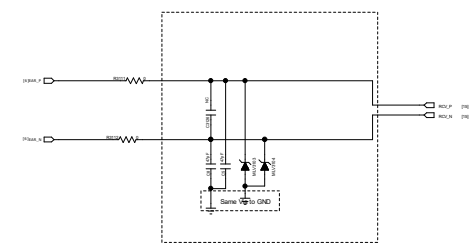
SPEAKER



HEAD MIC



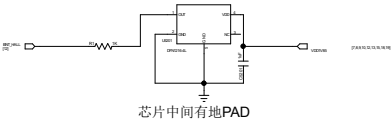
RECEIVER



		00-000-000 00-000-000	
ISSUES	00-000	00-000-000 Hardware DEPT.	
ISS	00-000	00-000-000 Spreadtrum communications, Inc.	
APPROVED	00-000	00-000-000 00-000-000	

Revision History			
Ver.	Revise	Appoval	Date

HALL



Accelerometer: BMA253(backup)

I2C ADDRESS

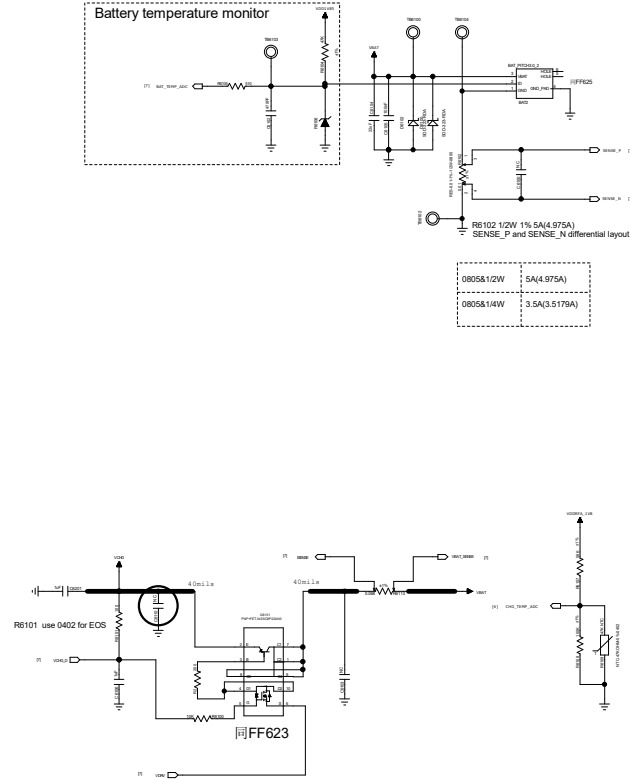
	Manufacturer	MPN	Address
A sensor	BSI SCH	BMA253	(86011001 (SDO+1)

PIN	Definition
VDD	1.62V ~3.6V
VDDIO	1.2V ~3.6V
SDO	Address select
SCx	SCL for I2C
SDx	SDA for I2C
PS	Protocol SelectionH—I2C
INT1	Interrupt PIN
INT2	Interrupt PIN
CSB	Chip selectH—I2C

Title: B1		
Revision: 1.0		
Drawn	2013	2013/01/01
Cal	2013	2013/01/01
Appoval	2013	2013/01/01
Hardware DEPT.		
Spreadtrum communications, Inc.		
CONFIDENTIAL - INTERNAL USE ONLY		

REVISIONS			
REV	DESCRIPTION	DATE	BY

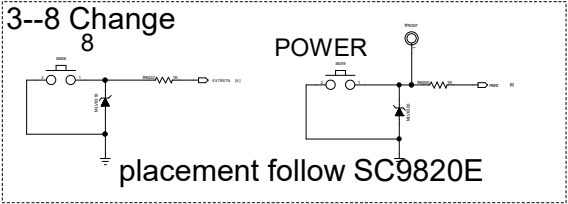
BATTERY AND USB Charger



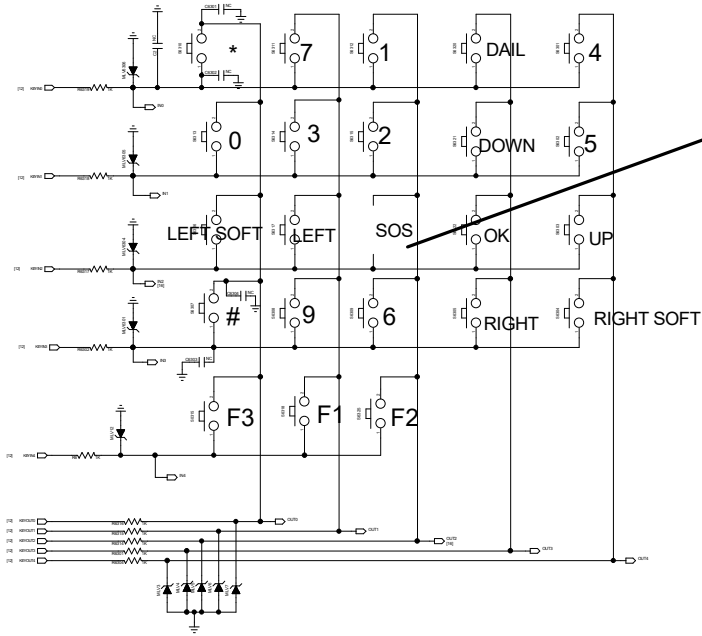
DESIGNER		DATE	DESCRIPTION
EVAL		DATE	Hardware DEPT.
APPROVED		DATE	Spreadtrum communications, Inc.

Revision History			
Ver.	Revise	Appoval	Date

KEYPAD

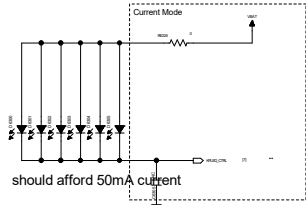


placement follow SC9820E



Press KEYIN0+KEYOUT0 when power up
will make the phone boot from USB

KEYPAD LED



Support 2 mode.Choose any one.and then delete 0ohm select resistor

Title: KEYPAD		
Description: KEYPAD		
Drawn: HW	Drawn: HW	Hardware DEPT.
Cal: HW	Cal: HW	Spreadtrum communications, Inc.
Appoval: HW	Appoval: HW	Copyright: Spreadtrum

