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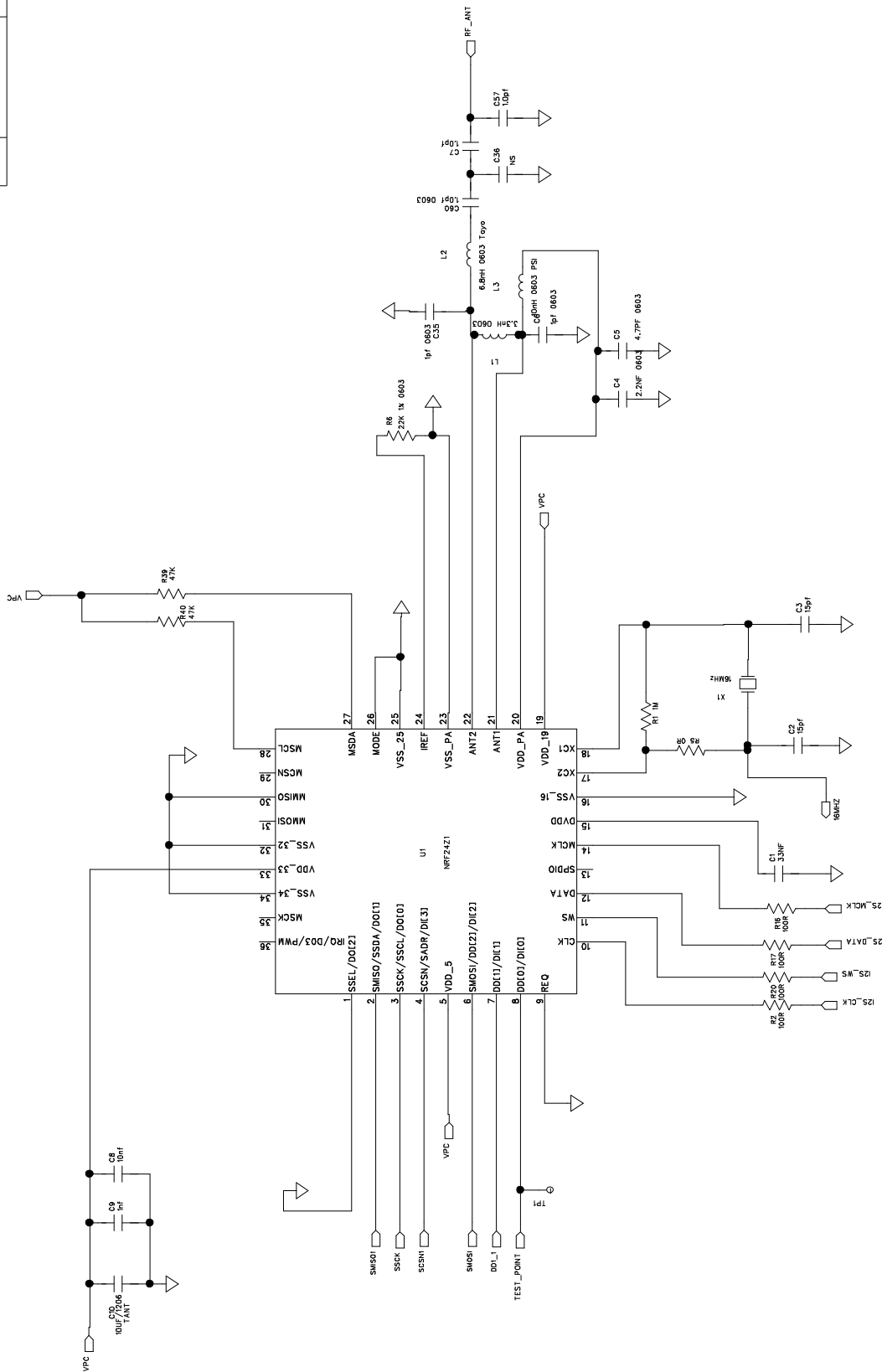
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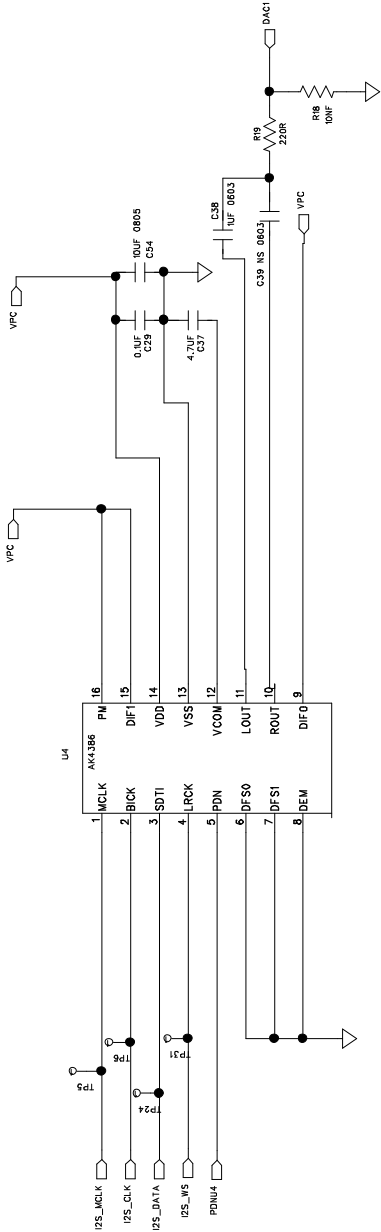
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REVISION RECORD			
LTR	ECO NO.	APPROVED	DATE
RI.0	Add Antenna parameter	XF Me	Jun 21/08
RI.2	Add the RF	XF Me	Jul 15/08
RI.3	Turning RF part	XF Me	Jul 22/08



COMPANY: Namtai			
TITLE: singstar RCV			
DRAWN: XF Me	DATED: 20081010	CODE: 20081010	SCALE: 1 OF 7
CHECKED: JT Sun	DATED: 20081010	DRAWING NO: 20081010	REV: RL7
QUALITY CONTROL: JT Sun	DATED: 20081010	SIZE: 20081010	REV: RL7
RELEASED: JT Sun	DATED: 20081010	SIZE: 20081010	REV: RL7

REVISION RECORD			
LTR	ECO NO.	APPROVED:	DATE
RL1	Change Pin 9 of U4 from VBUS3 to XF Ma	XF Ma	June 21/08



COMPANY: NamTai			
TITLE: Singstar RCV			
DRAWN: XF Ma	DATED: 20081010	CHECKED: JT Sun	DATED: 20081010
QUALITY CONTROL:		CODE: A2	SIZE: A2
RELEASED:		SCALE: 2 OF 7	REV: RL7

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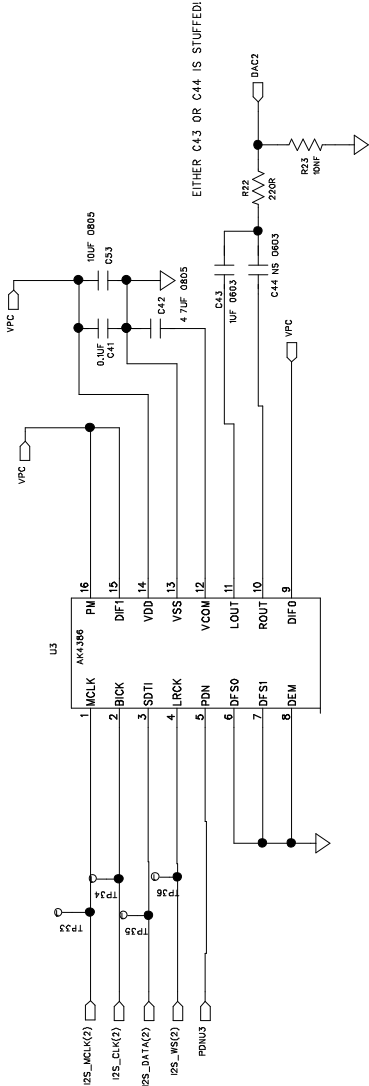
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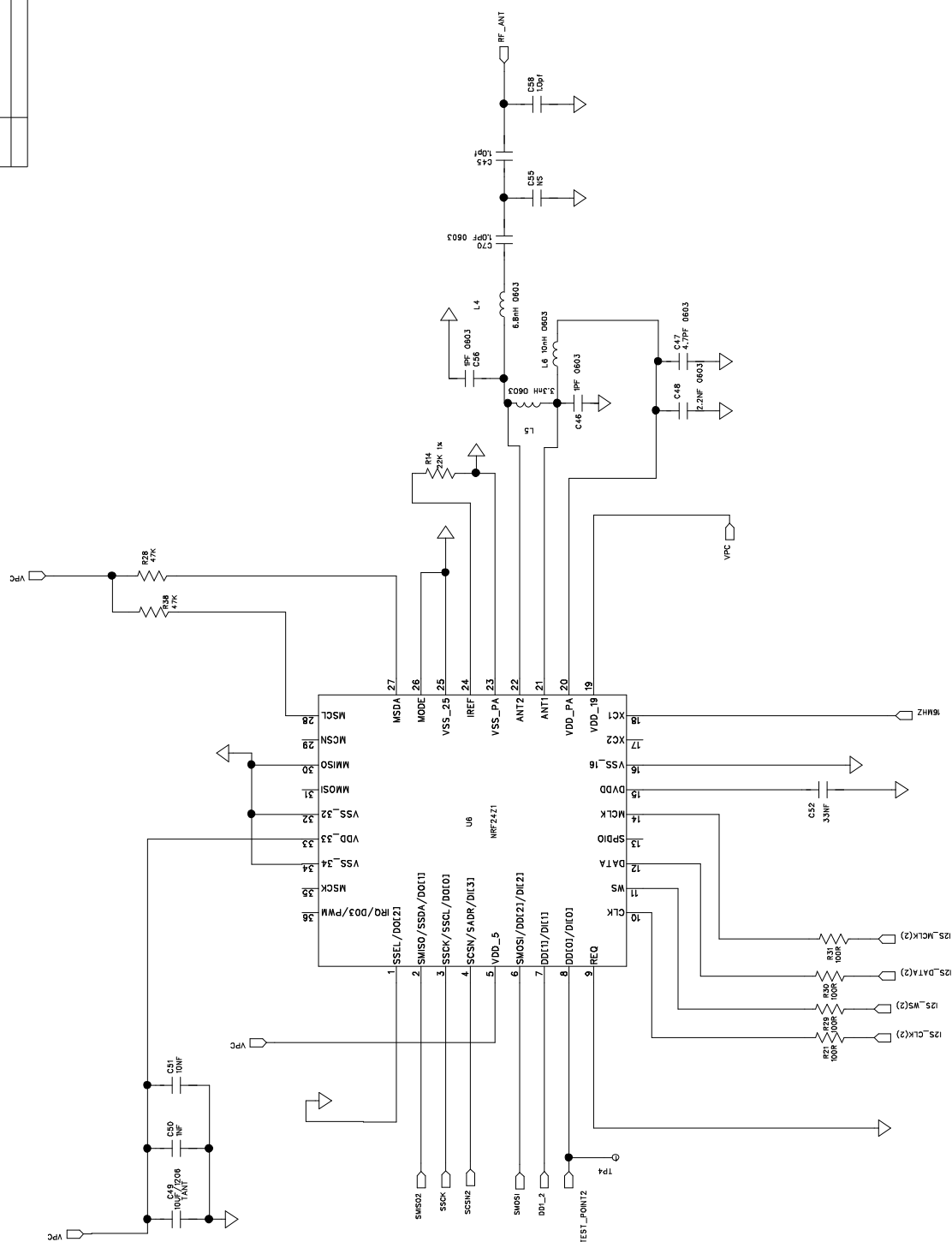
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REVISION RECORD			
LTR	ECO NO:	APPROVED:	DATE
R1.0	Change Pin 9 of U3 from VSS3 to VPC	W. Ho	June 21/08



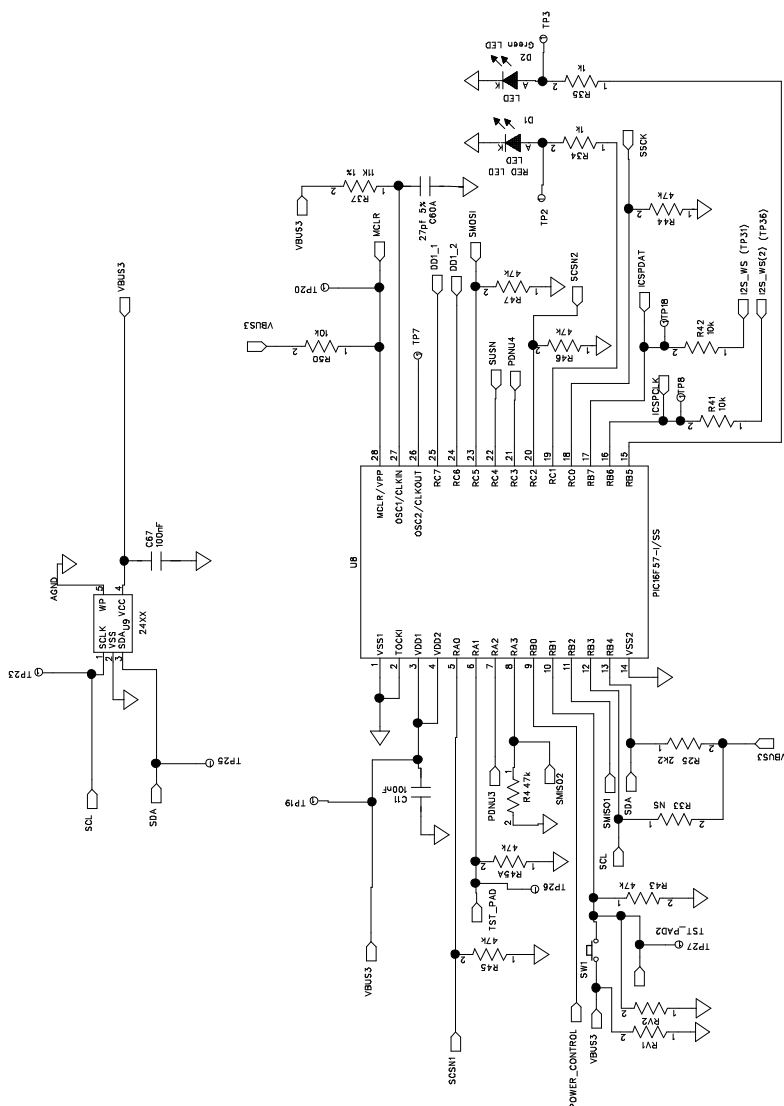
COMPANY: NamTai			
TITLE: Singstar RCV			
DRAWN: XF Mo	DATED: 20080900	CHECKED: JT Sun	REV: R1.7
QUALITY CONTROL:	DATED: 20081000	CODE: A2	DRAWING NO:
RELEASED:	DATED:	SCALE: 3 OF 7	SHEET:

REVISION RECORD			
LTR	ECO NO:	APPROVED:	DATE:
R1.0	Add the antenna part parameters	XF Mg	June 21/10
R1.3	Turning RF part	XF Mg	Jul 22/10



COMPANY: NamTai		TITLE: Singstar RCV		REV: R1.6	
DATE: 2008/0/0		DRAWING NO:		SHEET: 4 OF 7	
XF No		SIZE: A2			
CHECKED: JT Sun		CODE:			
QUALITY CONTROL:					
RELEASED:		DATED:			

REVISION RECORD			
LTR	ECO NO:	APPROVED:	DATE:
RI.0	Change R25 to 2k2 Add R31 to NS	x/fmg	Jun21/08
RI.1	Add R41 and R42	J1 Sun	Jun09/08
RI.2	Change the U9	x/fmg	July15/08

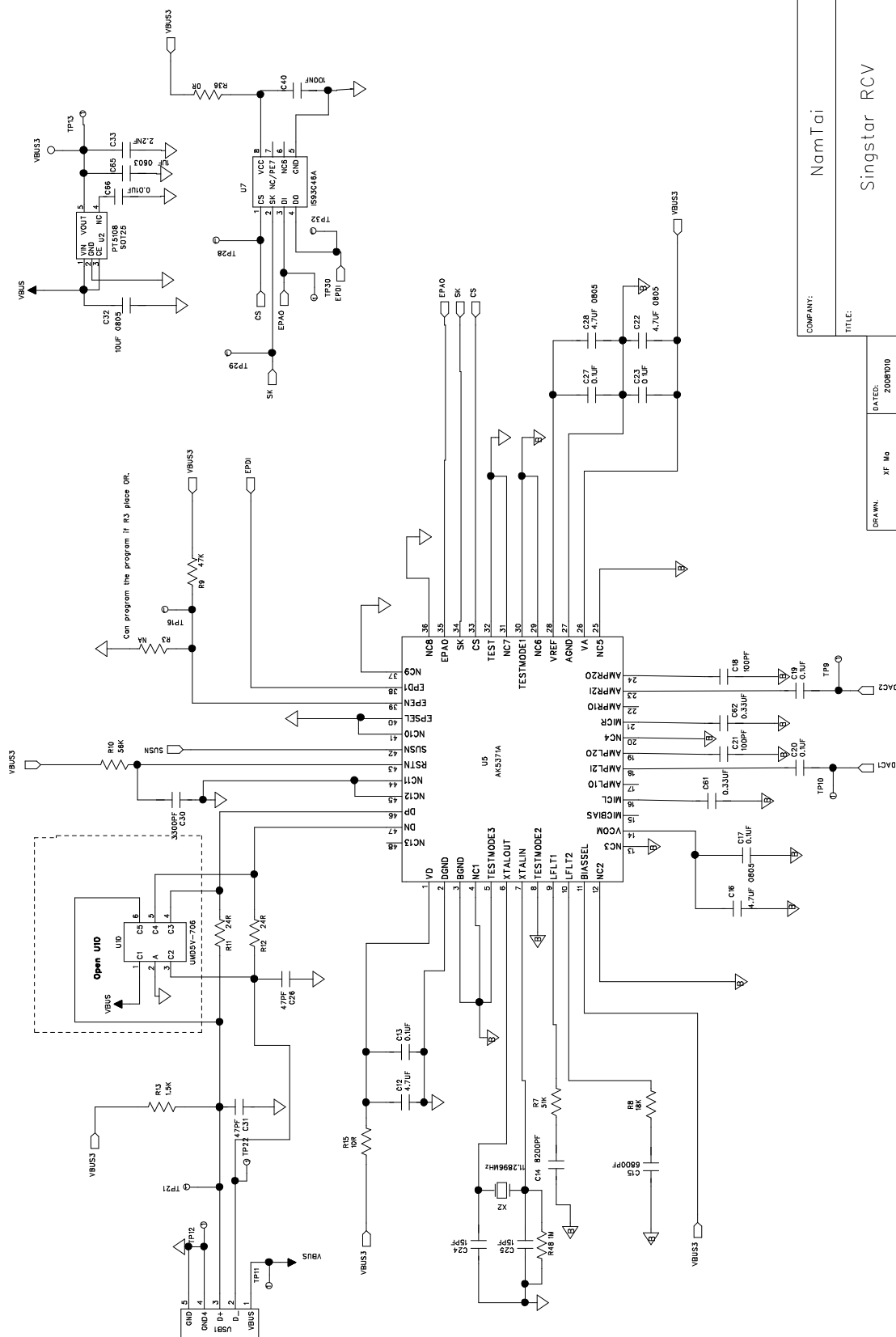


connect wire method on line programing

PicKit2 Pin	PIC16F57(SSOP-28)	PIC16F505	24XX
VPP(Pin1)	VPP(Pin28)	VPP/RA3(Pin4)	NC
Vdd(Pin2)	Vdd(Pin3/4)	Vdd(Pin1)	VCC(Pin4)
GND(Pin3)	VSS(Pin14)	VSS(Pin14)	VSS(Pin2)
PGD(Pin4)	RB7(Pin17)	RA0(Pin13)	NC
PGC(Pin5)	RB6(Pin16)	RA1(Pin12)	SCL(Pin1)
AUX(Pin6)	NC	NC	SDA(Pin3)

DRAWN: XF Ma		DATED: 20081010	COMPANY: Nam Tai		
CHECKED: JT Sun		DATED: 20081010	TITLE: Singstar RCV		
QUALITY CONTROL:		DATED:	CODE:	SIZE: A2	DRAWING NO:
RELEASED:		DATED:	REV: RL7		
			SHEET: 5 OF 7		

REVISION RECORD				
LTR	ECO NO:	APPROVED:	DATE:	
R1.0	Change C65 packet to 0603	XF Ma	June 21/0	
R1.7	Add R48=Ughim	XF Ma	Oct 10/08	
	Change C11/C12 from 39g to 24g			



Nam Tai

Singstar RCV

DRAWN:	XF Ma	DATED:	20081010
CHECKED:	JT Sun	DATED:	20081010
QUALITY CONTROL:		DATED:	
RELEASED:		DATED:	

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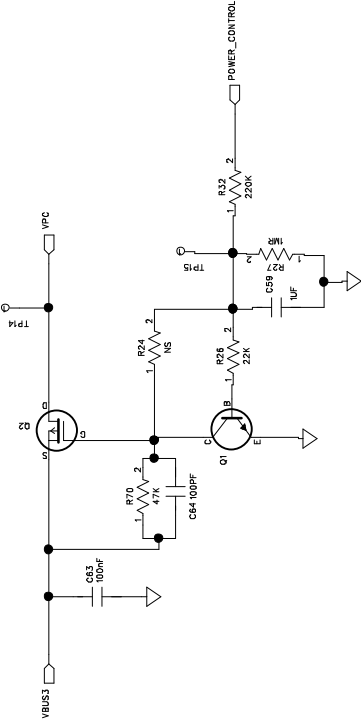
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REVISION RECORD			
LTR	ECO NO.	APPROVED	DATE



COMPANY:		NamTai			
TITLE:		Singstar RCV			
DRAWN:	XF No	DATED:	2008/0/0		
CHECKED:	JT Sun	DATED:	2008/0/0		
QUALITY CONTROL:		DATED:			
RELEASED:		DATED:			
CODE:		SIZE:		A2	
DRAWING NO:		REV:			
SCALE:		SHEET:		7	DF 7