

NOTES:
 1. USE 101-0388-01 PCB (ref. 101-0002-03A).

UNLESS OTHERWISE SPECIFIED: DIMENSIONS AND TOLERANCES ARE IN INCHES UNLESS OTHERWISE SPECIFIED. TOLERANCES ARE: FRACTIONS DECIMALS INCHES IN MILLIMETERS DO NOT SCALE DRAWING		CONTRACT NO. PE97042 Eval Board	
DESIGNED BY Gary and Khell	DATE 2-29-08	9380 Carroll Park Drive San Diego, CA 92121	
DESIGNED BY Gary and Khell	DATE 2-29-08	Schematic, PE97042 Eval Board	
REVISED BY C	DATE 2-29-08	FILE CODE 102-0464	REV 01
DRAWN BY MARKING SYMBOL	DATE	SCALE	SHEET 1 of 2

REVISION RECORD			
LTR	ECO NO:	APPROVED:	DATE:

D

D

C

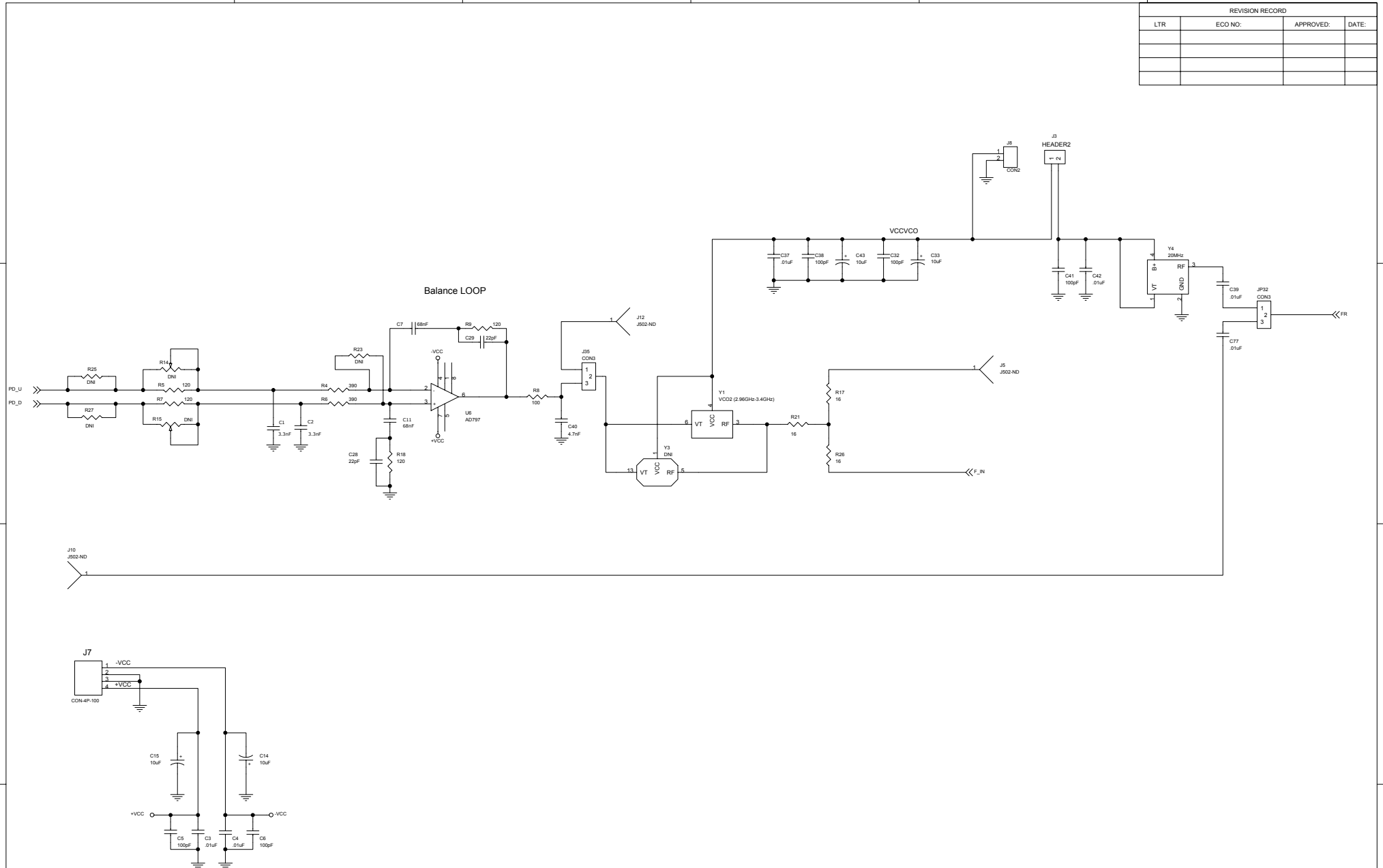
C

B

B

A

A



COMPANY: PEREGRINE SEMICONDUCTOR			
TITLE: SCHEMATIC, PE97042 EVAL BOARD			
DRAWN: JEFF LUNDY	DATED: 2-28-08	CODE:	REV: 01
CHECKED: KHELIL OUZNALI	DATED: 2-28-08	SIZE: C	DRAWING NO: 102-0464
QUALITY CONTROL:	DATED:	SCALE:	SHEET: 2f 2
RELEASED:	DATED:		

Peregrine Semiconductor Corporation
PE97042 Eval Board Revised: Friday, December 18, 2007
Bill of Materials

Item	Quantity	Reference	Value	Part Description	Notes
1	2	CA4,CA2	100pF	SMC 3-Terminal Cap Array	
2	2	C2,C1	3.3nF	Chip Cap 1206, PPS high grade	Loop Filter
3	8	C3,C4,C17,C26,C37,C39, C42,C77	.01uF	AVX Chip Cap 0805	Cut main 3V trace on back side close to C17
4	12	C5,C6,C8,C9,C10,C12,C16, C25,C32,C34,C38,C41	100pF	AVX Chip Cap 0603	
5	2	C7,C11	68nF	Cap 1206, PPS high grade	Loop Filter
6	6	C13,C14,C15,C33,C43,C44	10uF	Cap 2513	
7	10	C18,C19,C20,C21,C22,C23, C24,C28,C29,C30,C45	22pF	AVX Chip Cap 0603	C14 Positive side to GND
8	1	C27	DNI	AVX Chip Cap 0402	
9	1	C40	4.7nF	PPS CAP 1206	Low pass filter (with R8) Not on PCB
10	7	D1,D2,D3,D4,D5,D6,D7	2.7V	Panasonic Zener Diode	
11	1	JP32	CON3	3 Pin Header	REF Select
12	1	J1	CONRA-8P-100X	8 Pin Header	Serial control
13	1	J3	CON2	2 Pin Header	TCXO VCC Supply
14	4	J5,J10,J12,J4	J502-ND	SMA Connector (Side Mount)	
15	1	j2	CON2	2 Pin Header, .100	VCO VCC supply
16	1	J7	CON4	4 Pin Header, .100	Op Amp +/-6V supply
17	1	j8	CON2	2 Pin Header, .100	PLL VDD supply
18	1	J35	JUMPER 3P		
19	3	R1,R2,R3	10K	10 Pin SIP Resistor	
20	2	R6,R4	390	AVX Chip Resistor 0603	
21	2	R7,R5	120	SMD Resistor 0805	
22	1	R8	100	SMD Resistor 0805	Low pass filter (with C40)
23	2	R18,R9	120	SMD Resistor 0805	
24	4	R10,R11,R12,R22	220	16 Pin SMD R-Pack	
25	1	R11	220	SMD Resistor 0603	
26	4	R13,R14,R15,R16	DNI		DO NOT INSTALL
27	1	R19,R24	51	SMD Resistor 0603	2 dB pad
28	3	R17,R21,R26	16	SMD Resistor 0805	Power splitter
29	1	R20	0	SMD Resistor 0603	2 dB pad
30	1	R23	DNI	AVX Chip Resistor 0603	DO INSTALL
31	2	R25,R27	DNI	SMD Resistor 0402	DO NOT INSTALL
32	3	S1,S2,S3	SW DIP-8		
33	7	TP1,TP2,TP3,TP9,TP11, TP4,TP19,TP20	T POINT A	Test Point	
34	1	U1	PE97042		
35	1	U6	AD797	Ultra Low Noise OP	
36	1	Y1	VCO2 (2.96GHz-3.4GHz)	MODCO LV142MLN VCO	
37	1	Y3	VCO1 (2GHz-3.2GHz)	M3500-2032 VCO	DO NOT INSTALL
38	1	Y4	20MHz	Vectron TCXO OSC-3B0-20MHz	
39	1	101-0388-01		PCB Board	