SEE PAGE 2 FOR REVISION BLOCK

PROTECTION DIODES

CLK & BIAS BOARD
Bias and FastBias Outputs

CURRENT LIMIT RESISTORS

RJ5:A

CPCI B RJ2RJ5 110

Erni 064785 (Type B)

RJ5:B

CPCI B RJ2RJ5 110

Z-row is GND

Interface Card
Clock Outputs

Interface Card
Slow Bias Outputs

Interface Card
Fast Bias Outputs

Interface Card
Slow Bias Outputs

P2

AMP 104130-7

P3

AMP 104130-9

PROTECTION DIODES

CLK & BIAS BOARD
Clock Outputs

RJ4:A

CPCI A RJ1RJ4 110

Erni 064176 (Type A)

RJ4:B

CPCI A RJ1RJ4 110

Z-row is GND

PROTECTION DIODES

UNLESS OTHERWISE NOTED
Resistors are in Ohms 1/4W +-5%
Capacitors are in micro Farads uF +- 20%
Inductors are in micro Henrys uH

DIG GND MGND
AGND EGND

NATIONAL OPTICAL ASTRONOMY OBSERVATORIES
OPERATED BY THE
ASSOCIATION OF UNIVERSITIES FOR RESEARCH IN ASTRONOMY
UNDER COOPERATIVE AGREEMENT WITH
NATIONAL SCIENCE FOUNDATION

DO NOT SCALE DRAWING

NEXT ASSEMBLY: MNSN-EL-04-0010

NAME: SCHEMATIC GENERIC Clock and Bias Transition Board

USED ON: MONSOON

REF:

DWG SIZE: D

REV: A1

SCALE:	DESIGNED BY	DATE	CHECKED BY	DATE	DWG NO
DWG PRODUCED USING: PCAD 2004	Peter Moore	20th Sept 2004			MNSN-EL-04-2010
	DRAWN BY: Peter Moore	DATE	APPROVED BY	DATE	
	PRINT ISSUED	DATE	APPROVED BY	DATE	RELEASED

Sheet 1 of 2

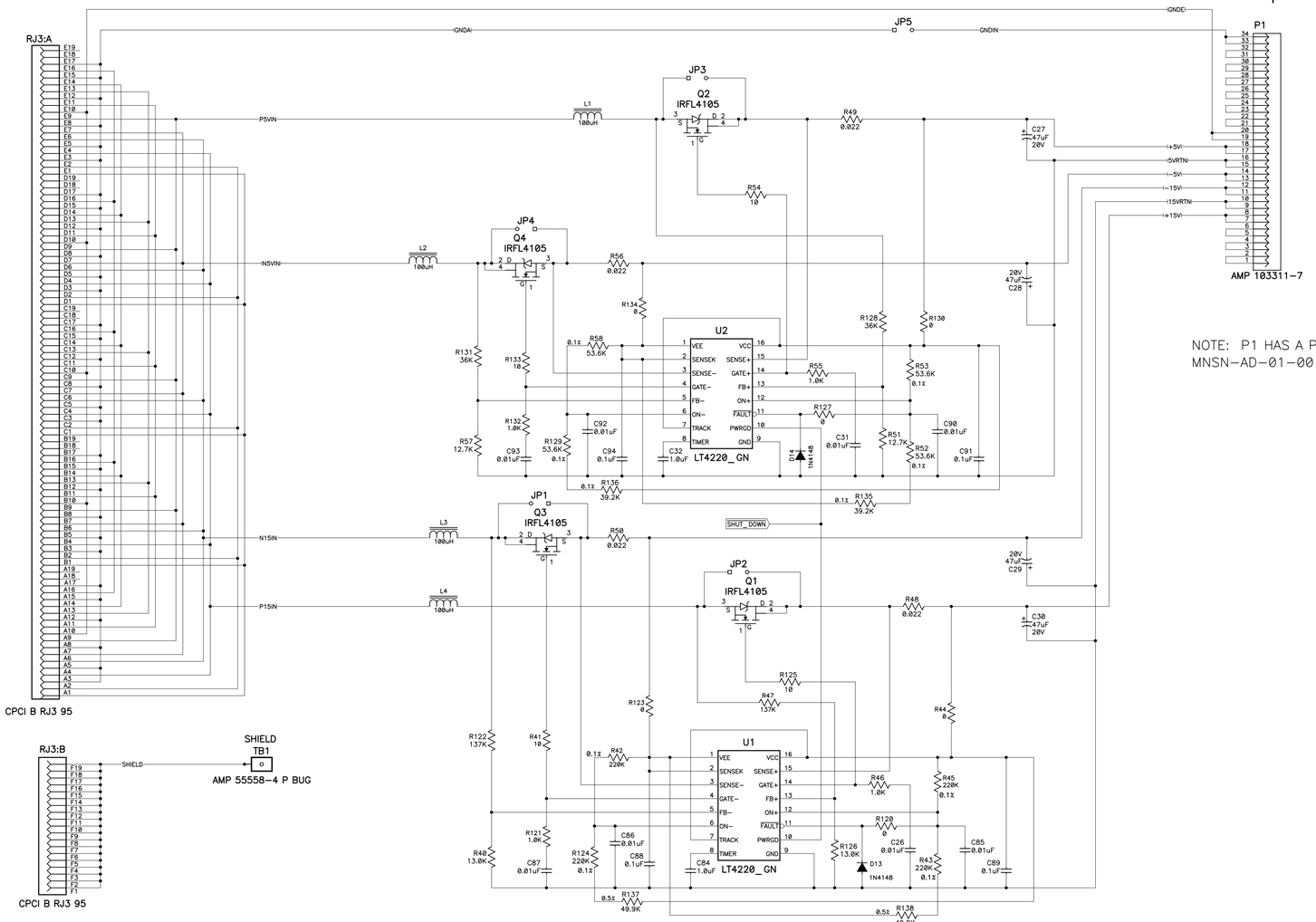
Modified Date:Thu Sep 07, 2006
Print Date: Mon Feb 25, 2008

REVISIONS					
LTR	DESCRIPTION	ECR	DATE	BY	APPVD
A	reposition inductors in circuit, change to shield ground connection, add resistors, value changes, cap land pattern cha	MNSN-0110	05oct05	dms	p.moore
A1	voltage divider resistor value, spec changes (temp stable) R42,43,45,52,53,58,124,129,135,136,137,138		07SEP06	dms	p.moore

CLK & BIAS BOARD

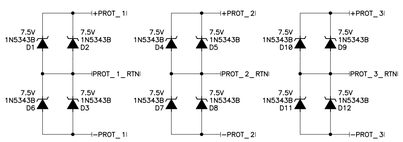
Power Connector

Interface Card Power Input



NOTE: P1 HAS A POSITIONAL RESTRICTION SEE DRAWING MNSN-AD-01-0010 FOR PCB CARD DIMENSIONS

Supplies are +/- 5% over / under protected.
Current limit set for 2.1 amps during normal operation and 680 ma during start up cycle.



PROTECTION CLAMPS

NATIONAL OPTICAL ASTRONOMY OBSERVATORIES			
NAME: SCHEMATIC GENERIC Clock and Bias Transition Board			
DWG NO: MNSN-EL-04-2010	SIZE: D	REF:	REV: A1
RELEASED	Sheet 2 of 2		

Modified Date: Thu Sep 07, 2006
Print Date: Mon Feb 25, 2008