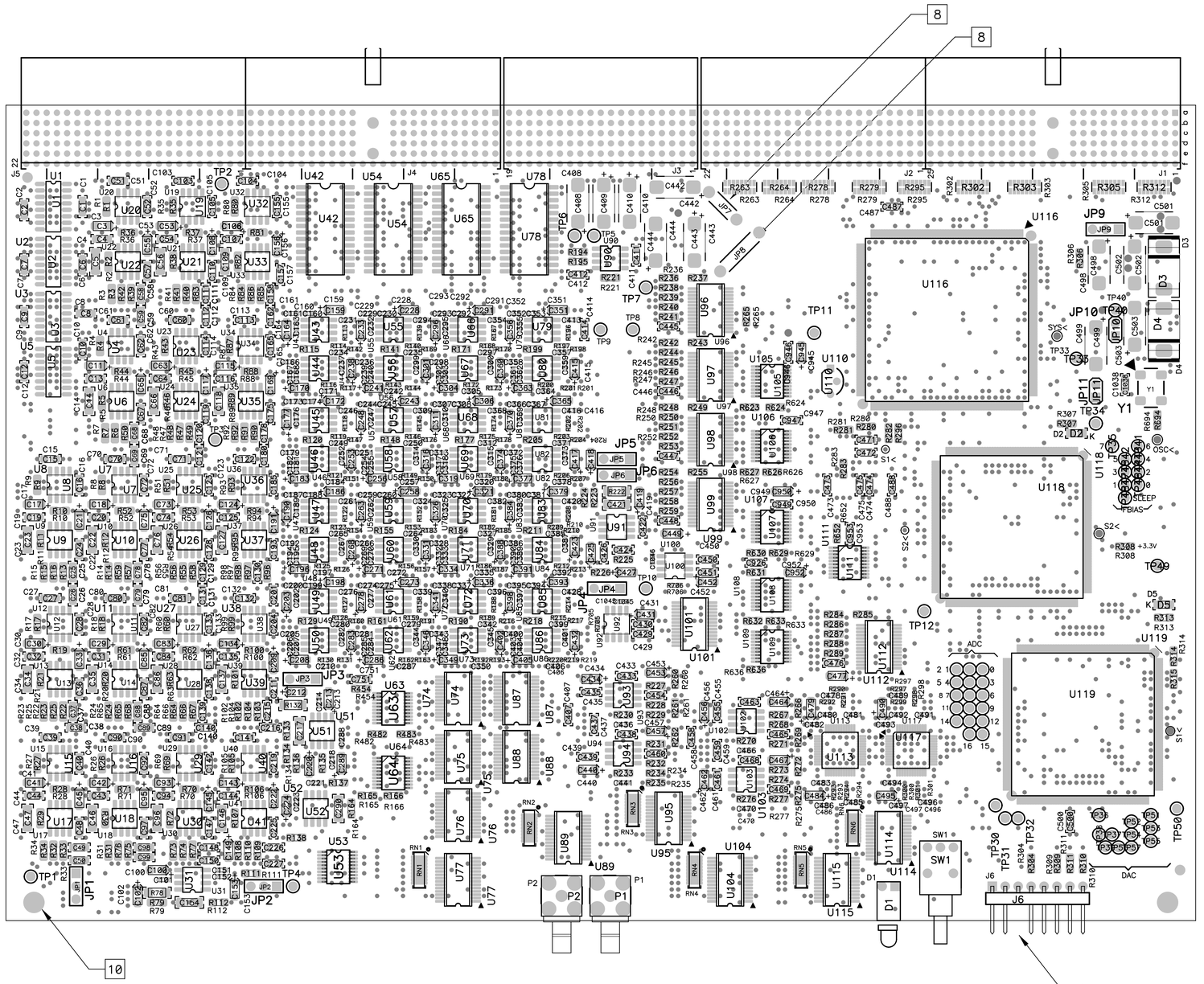
REVISIONS						
ZONE	LTR	DESCRIPTION	ECR	DATE	BY	APRV
	–1	ADD NOTE 12	MNSN–0101	13aug04	DMS	pcm
	–2	change note 5	MNSN–0103	apr 05	DMS	pcm pjs
	A	remove note 11	MNSN–0112	dec 05	DMS	mh pjs



NOTES:

1. Before installing any components check all boards using an ohm meter for shorts between all power and ground nodes.
2. All polarized caps are marked with a plus (+) sign closest to the positive node.
3. Diode orientation: D3, D4 cathode marking is heavy bar. D2,D5 cathode marking is letter "K", matchup up dot or dimple on part with the "K".
4. All holes and lands of uninstalled components shall be kept free of solder.
5. J1–J5 shall be soldered in place after installation.
6. L1 – L6 are to have 18–20 awg solid wire installed across their lands. (bottom of board)
7. Trim leads on bottom of board <= .070 inches tall.
8. Install 18 – 20 awg solid wire to form a raised wire loop. Top of wire loop <=.250" but > .075"
9. Do not cover NOAO serial number block with any labels etc.
10. PNP report origin
11.
12. Trim pin 3 flush to plastic moulding for keying

ASSEMBLY
TOP

TOLERANCES UNLESS OTHERWISE NOTED
.XX ± .03 ANGULAR
.XXX ± .010 ±.5°

THIRD ANGLE PROJECTION

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–10–0300–017

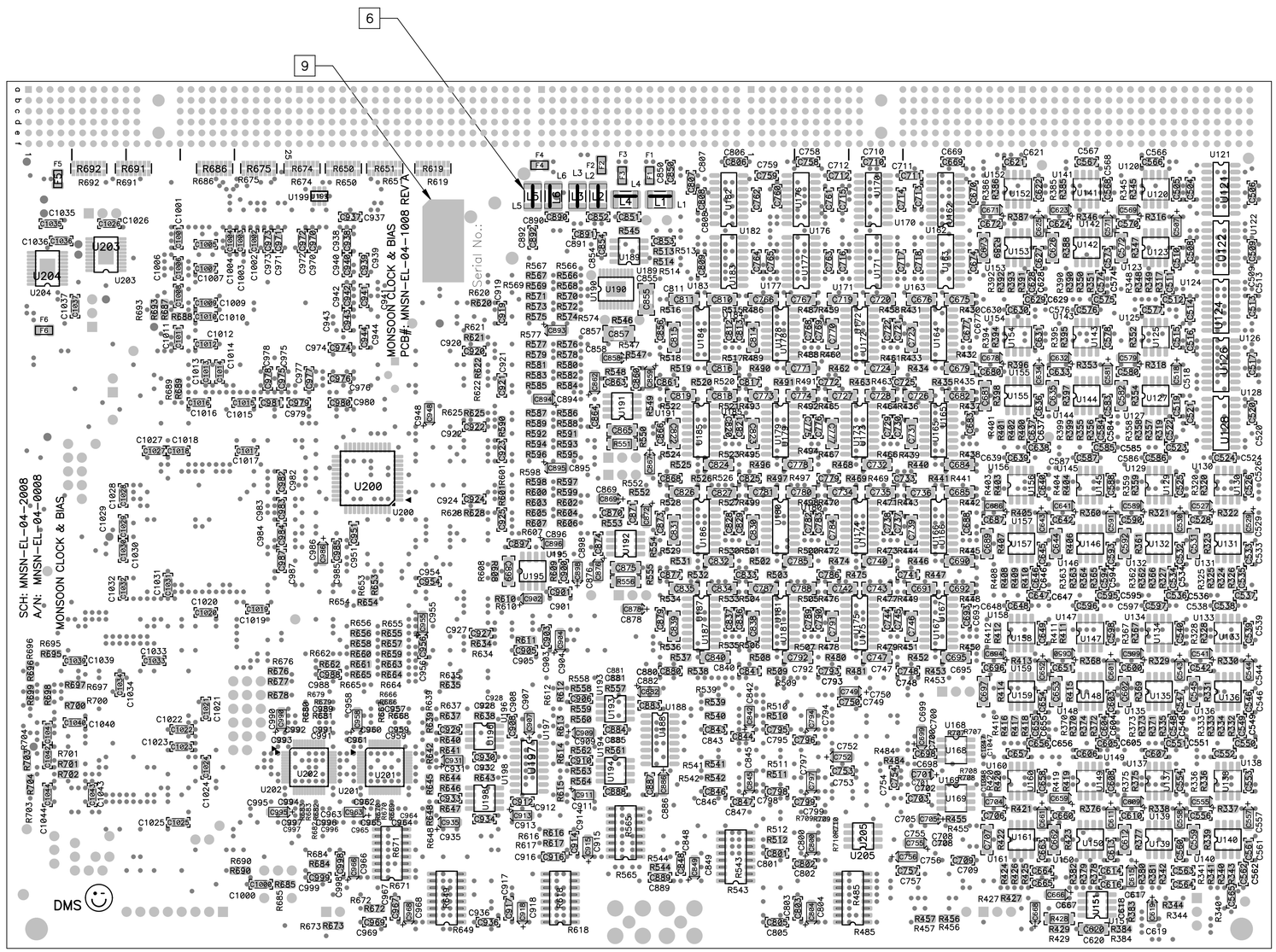
SCHEMATIC: MNSN–EL–04–2008

NAME: ASSEMBLY DRAWING
CLOCK & BIAS BOARD
TOP OR PRIMARY SIDE

USED ON: MONSOON
REF:
DWG SIZE: D
REV: A

SCALE:	DESIGNED BY	DATE	CHECKED BY	DATE	DWG NO	
	G. RAHMER	MAR 2004			MNSN–EL–04–0008	
DWG PRODUCED USING	DRAWN BY	DATE	APPROVED BY	DATE	RELEASED	SHEET 1 OF 2
PCAD 2004	Dee Stover	19APR04				

Tue Dec 20, 2005



ASSEMBLY
BOTTOM

TOLERANCES UNLESS OTHERWISE NOTED .XX ± .03 ANGULAR .XXX ± .010 ±.5°	THIRD ANGLE PROJECTION	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	NAME ASSEMBLY DRAWING CLOCK & BIAS BOARD BOTTOM OR SECONDARY SIDE	USED ON MONSOON	REF
NEXT ASSEMBLY MNSN-EL-10-0300-017		DWG SIZE D	REV A
SCHEMATIC MNSN-EL-04-2008			
SCALE:	DESIGNED BY G. RAHMER	DATE MAR 2004	CHECKED BY
DWG PRODUCED USING PCAD 2004	DRAWN BY Dee Stover	DATE 19APR04	APPROVED BY
DATE	DWG NO MNSN-EL-04-0008		
DATE	RELEASED	SHEET 2 OF 2	

Tue Dec 20, 2005