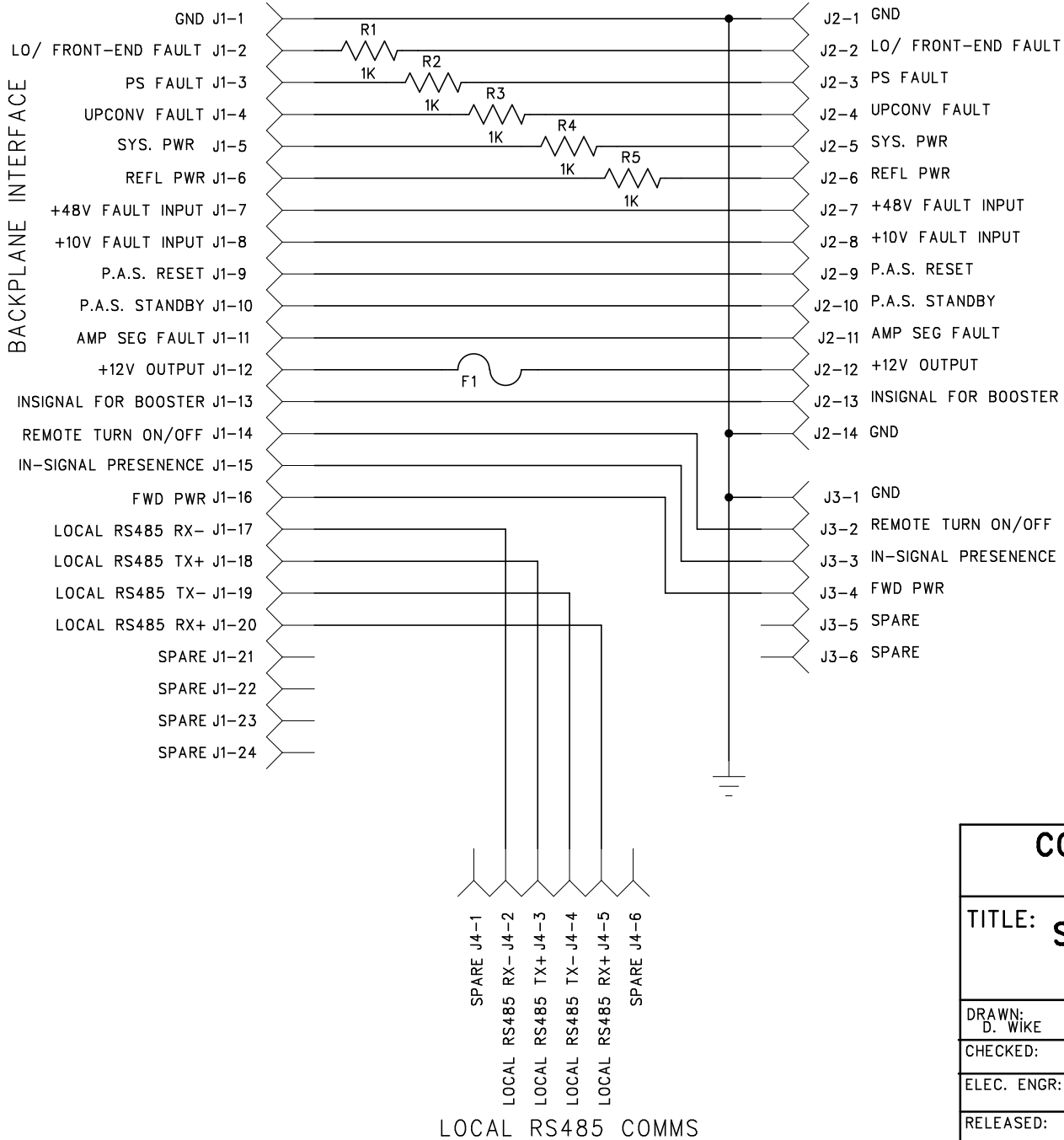


BACKPLANE INTERFACE



DIAGNOSTICS CONNECTOR

AGILE CONTROLLER
INTERFACE

REVISION RECORD

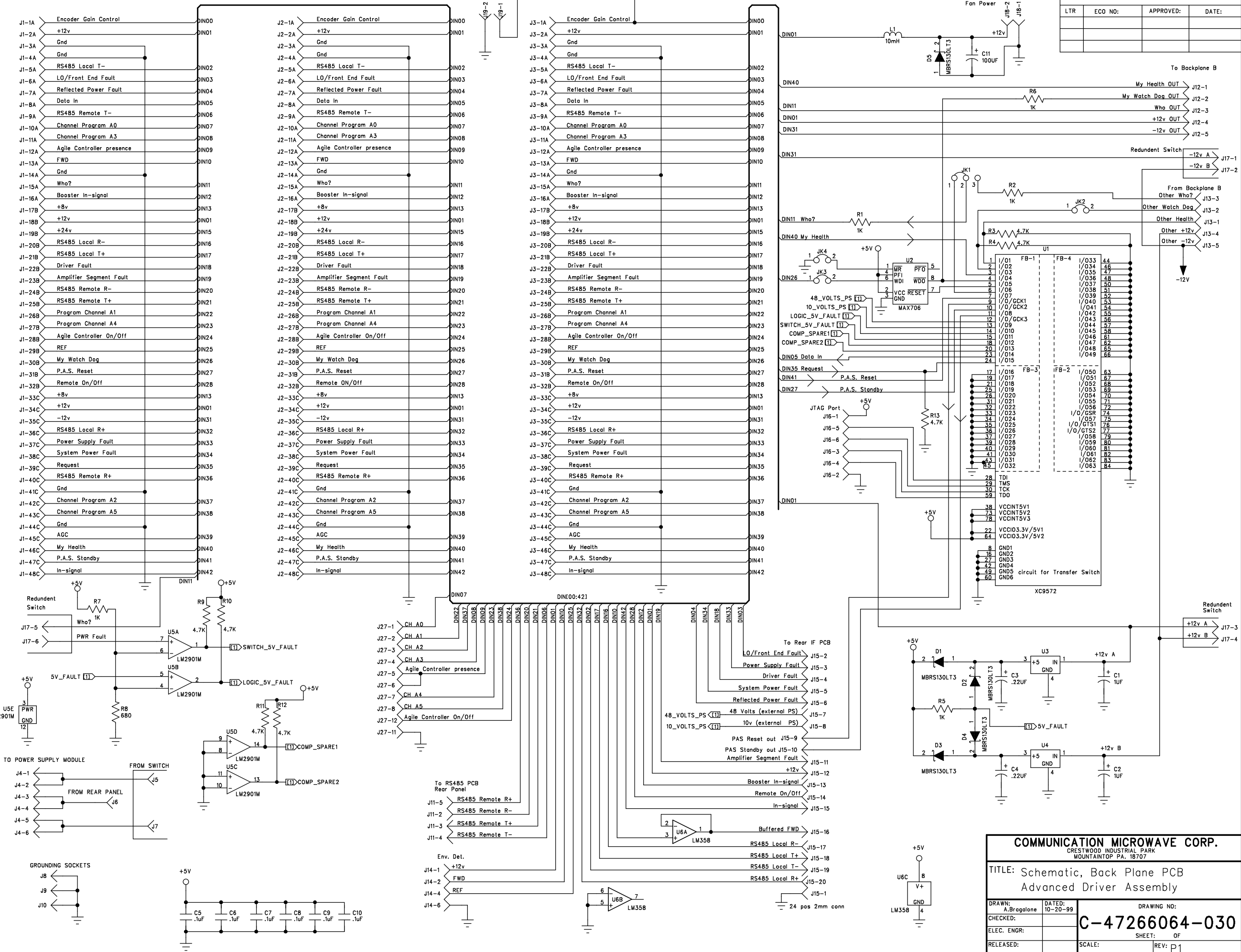
LTR	ECO NO:	APPROVED:	DATE:

COMMUNICATION MICROWAVE CORP.

CRESTWOOD INDUSTRIAL PARK
MOUNTAINTOP PA. 18707

TITLE: SCHEMATIC,REAR PANEL INTERFACE

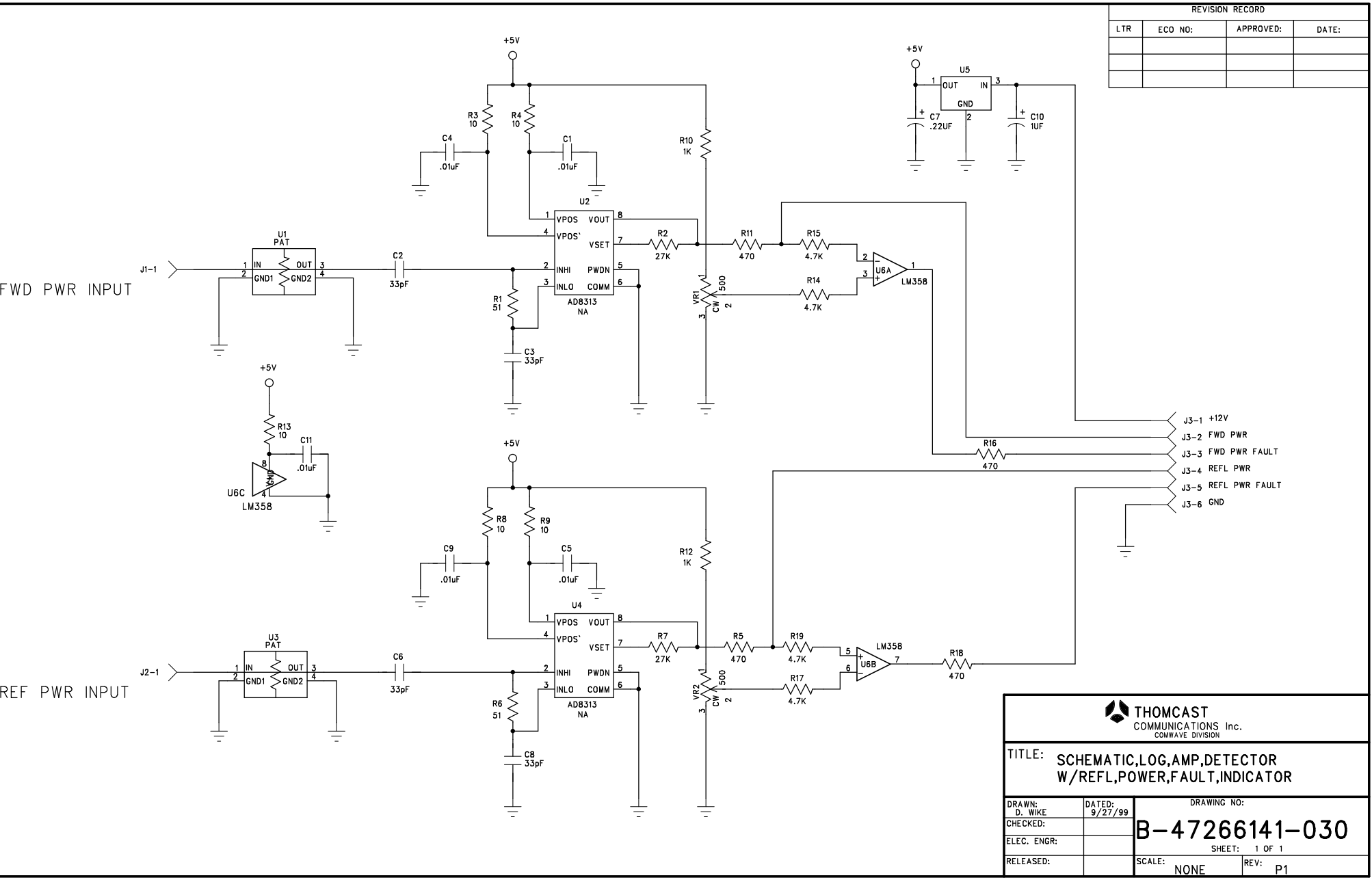
DRAWN: D. WIKE	DATED: 10/15/99	DRAWING NO: A-47266066-030	
CHECKED:		SHEET: 1 OF 1	
ELEC. ENGR:		SCALE: NONE	REV: P1
RELEASED:			



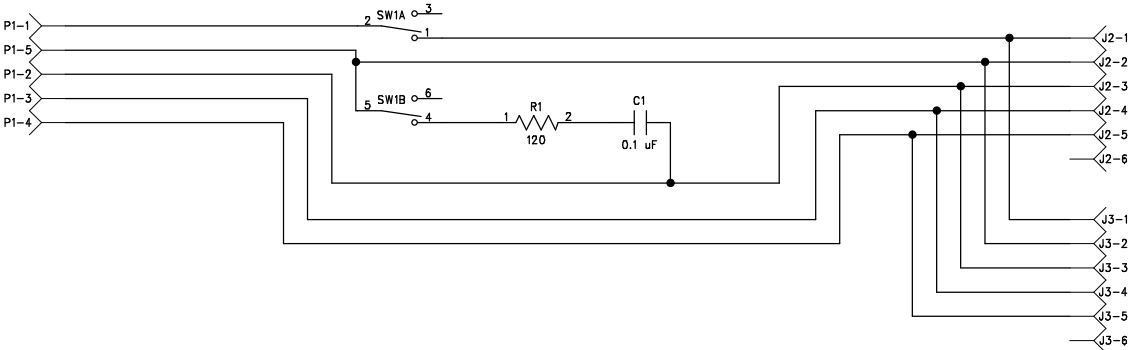
REVISION RECORD			
LTR	ECO NO:	APPROVED:	DATE:

FWD PWR INPUT

REF PWR INPUT

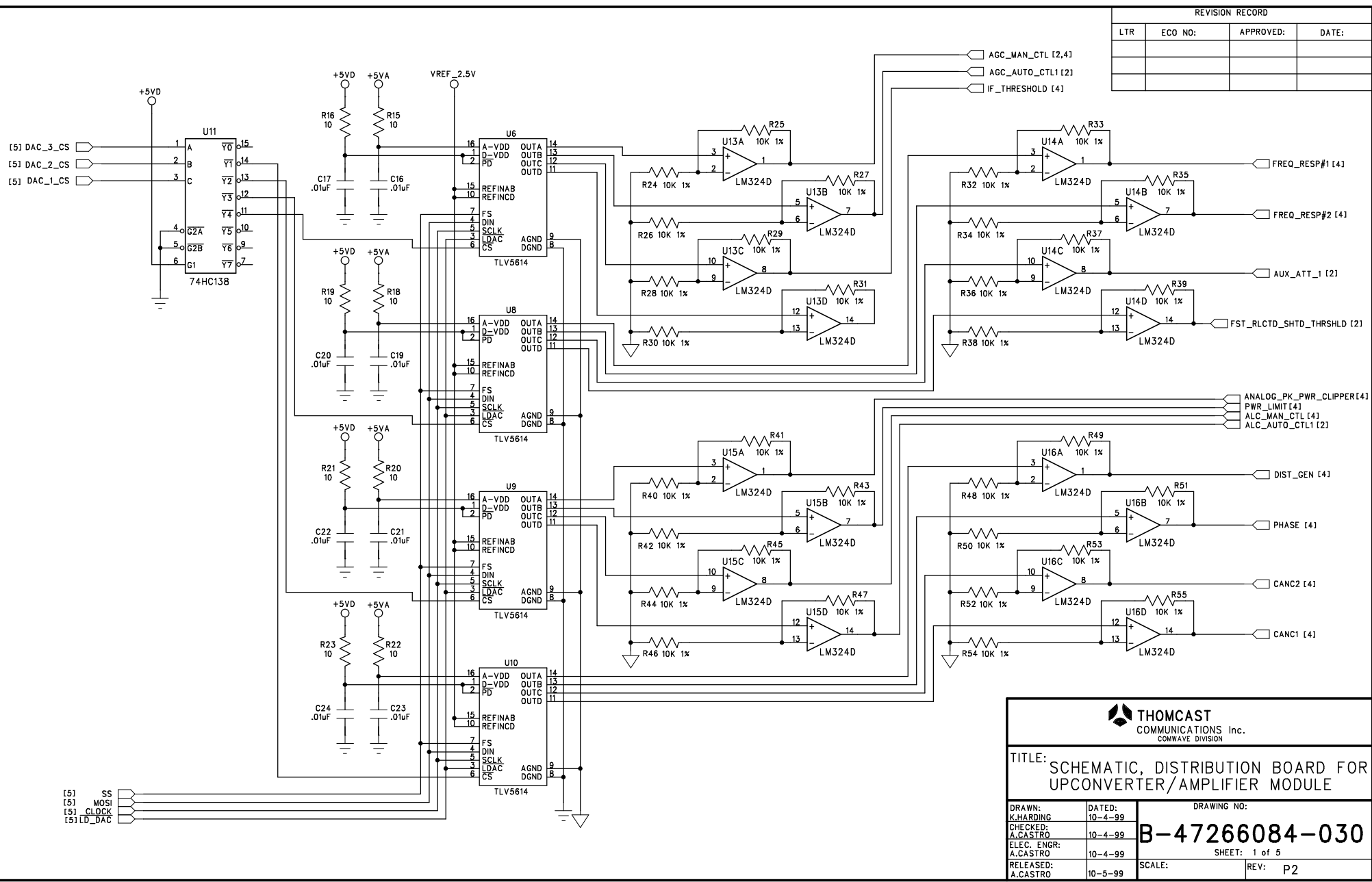


REVISION RECORD			
LTR	ECO NO:	APPROVED:	DATE:



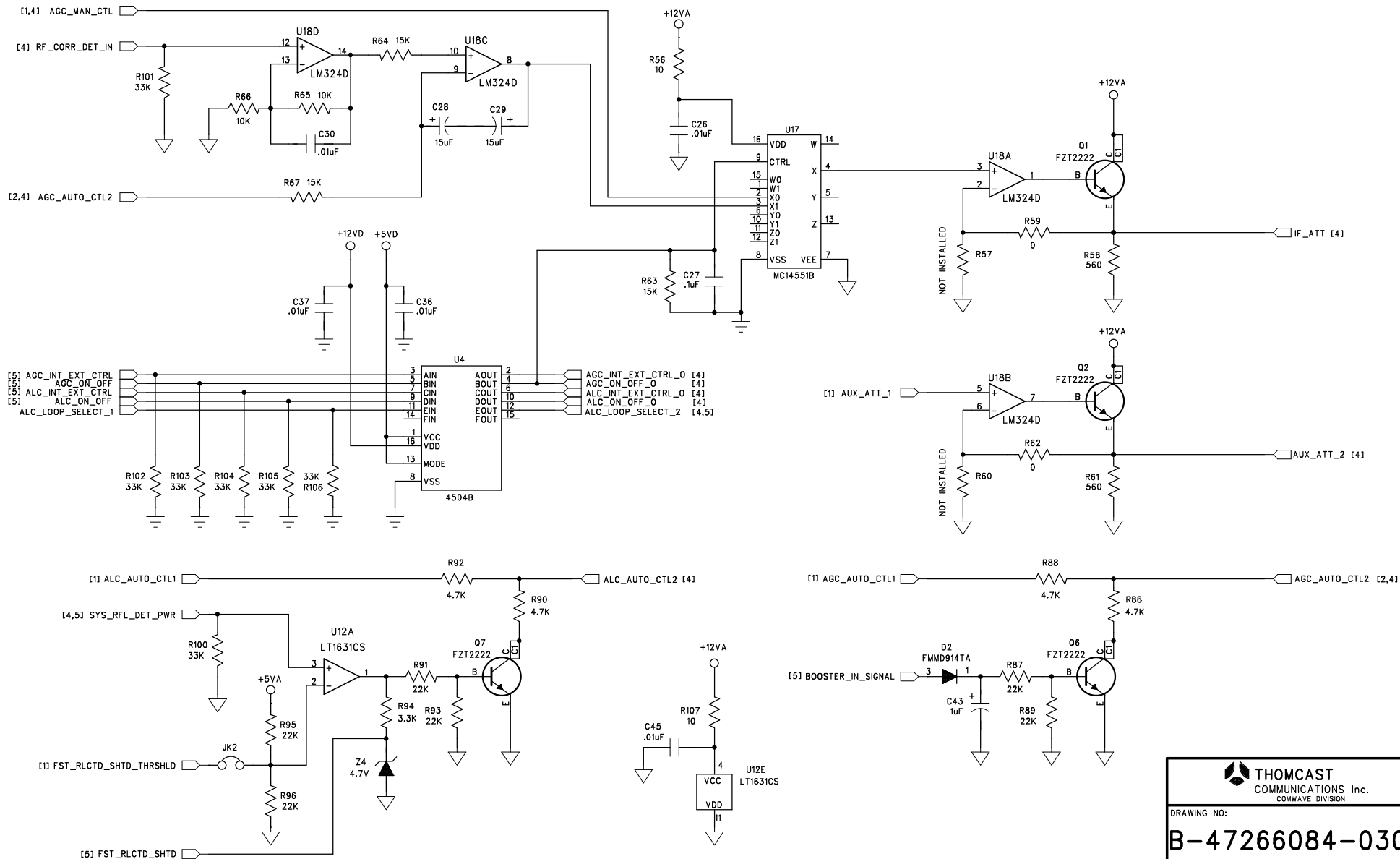
- NOTES:
- 1. DPDT SWITCH SW1 IS CLOSED ONLY AT LAST UNIT IN NETWORK TO TERMINATE PC TX NET & PROVIDE FRAME GND.
 - 2. SCHEMATIC OF ISSUE 1 PC BOARD.

COMMUNICATION MICROWAVE CORP. CRESTWOOD INDUSTRIAL PARK MOUNTAINTOP PA. 18707			
TITLE: RS-485 COMMUNICATIONS INTERFACE, SB050B PS CHASSIS			
DRAWN: D. PAJSKI	DATED: 6-20-95	DRAWING NO: B-33-304-01	
CHECKED:			
ELEC. ENGR:			
RELEASED:			
		SHEET: OF 1	REV: A



TITLE: SCHEMATIC, DISTRIBUTION BOARD FOR
UPCONVERTER/AMPLIFIER MODULE

DRAWN: K.HARDING	DATED: 10-4-99	DRAWING NO:	
CHECKED: A.CASTRO	10-4-99	B-47266084-030	
ELEC. ENGR: A.CASTRO	10-4-99		
		SHEET: 1 of 5	
RELEASED: A.CASTRO	10-5-99	SCALE:	REV: P2



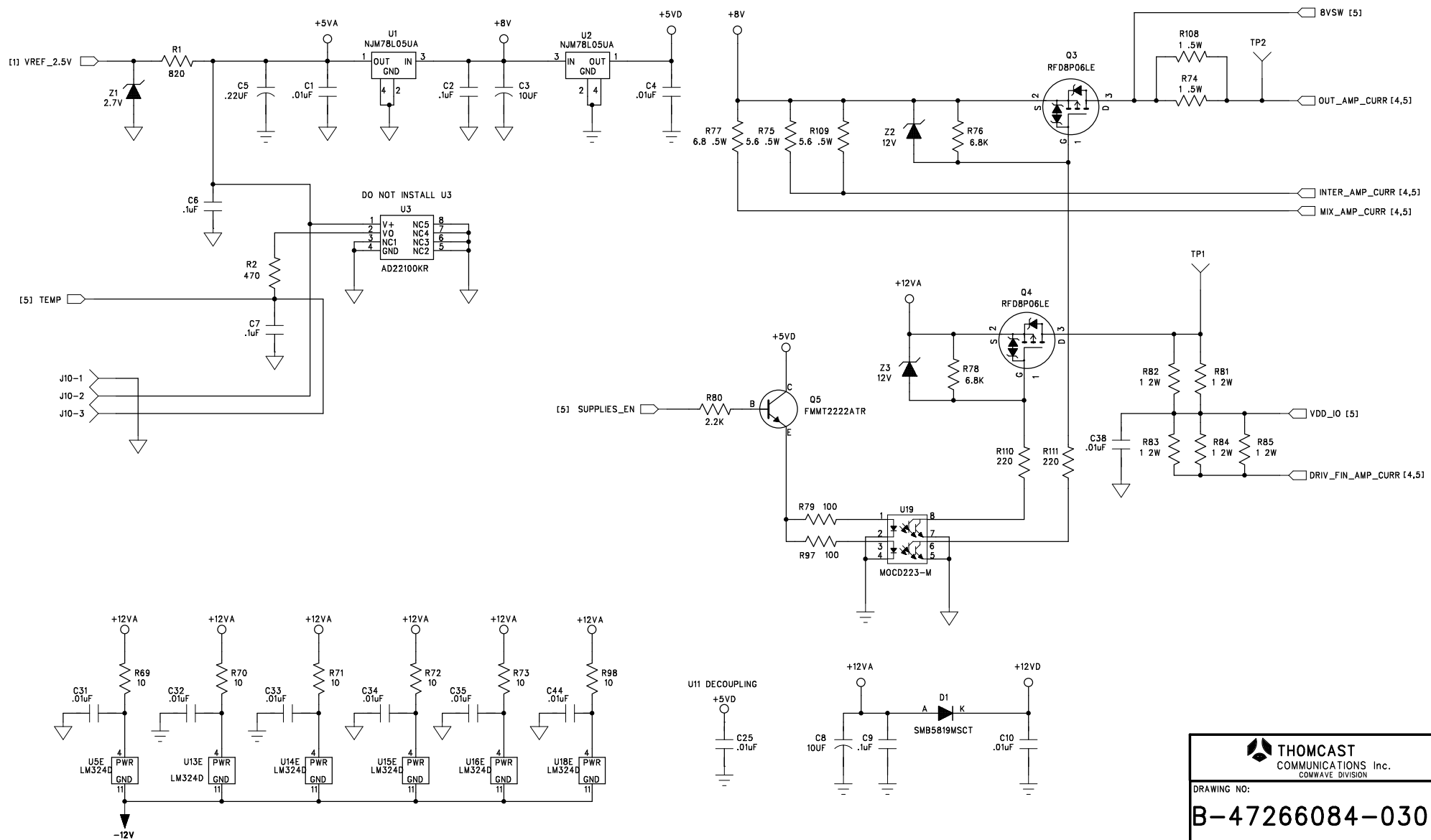
THOMCAST
COMMUNICATIONS Inc.
COMWAVE DIVISION

DRAWING NO:

B-47266084-030

SHEET: 2 of 5

SEE SHEET ONE



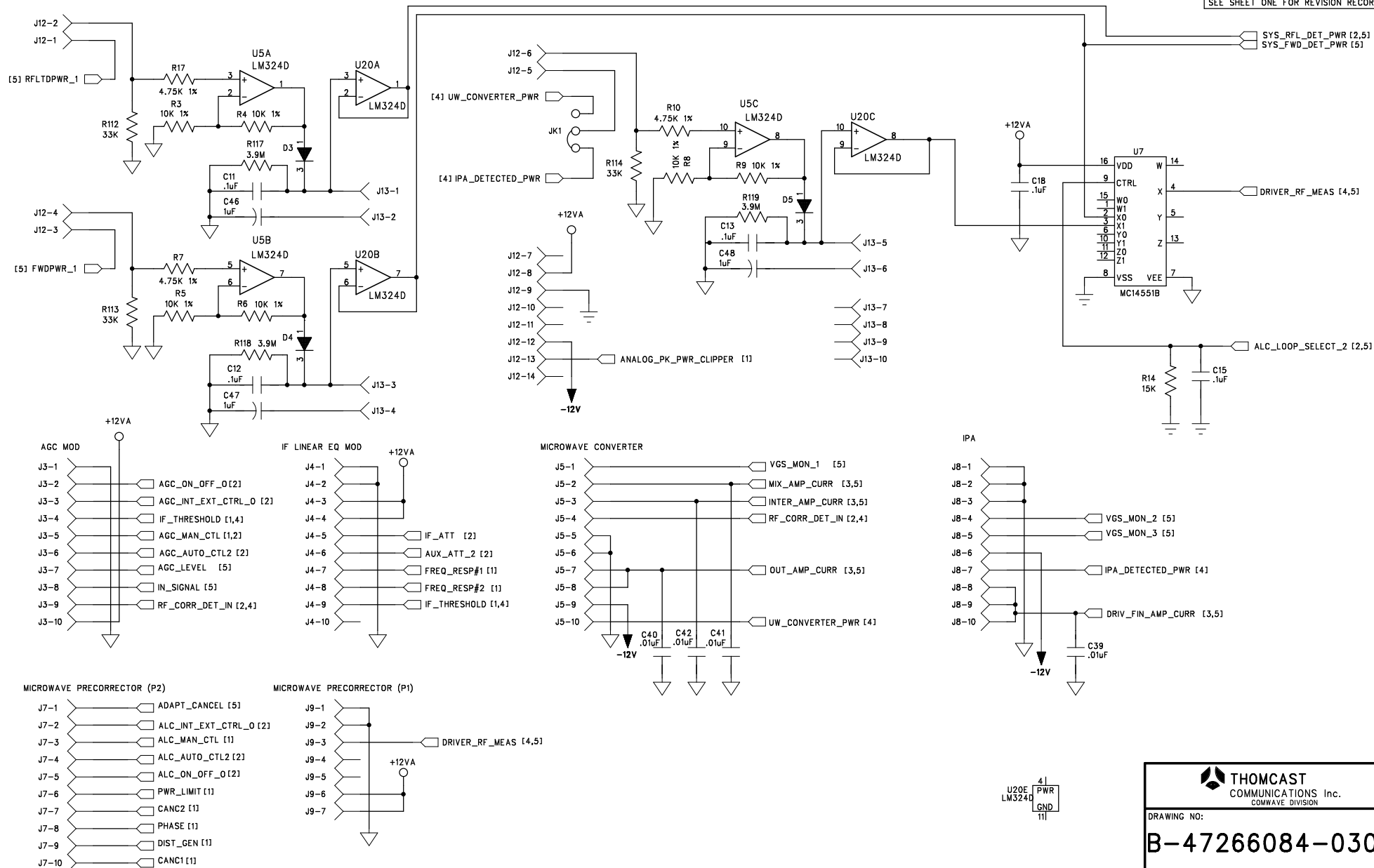
THOMCAST
COMMUNICATIONS Inc.
COMWAVE DIVISION

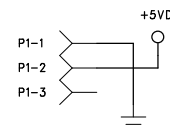
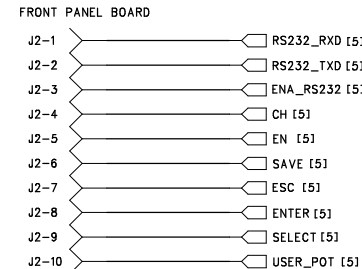
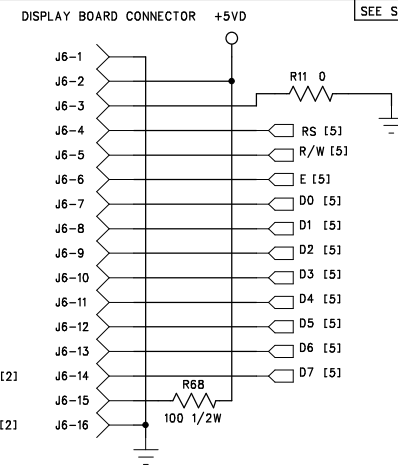
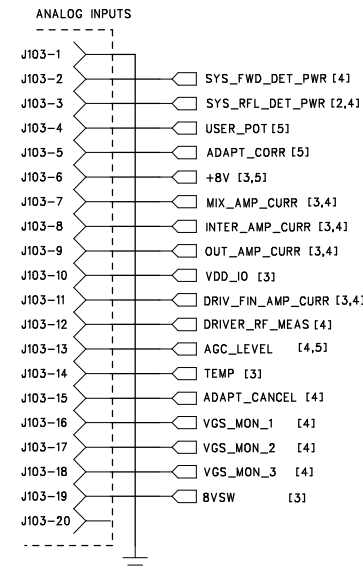
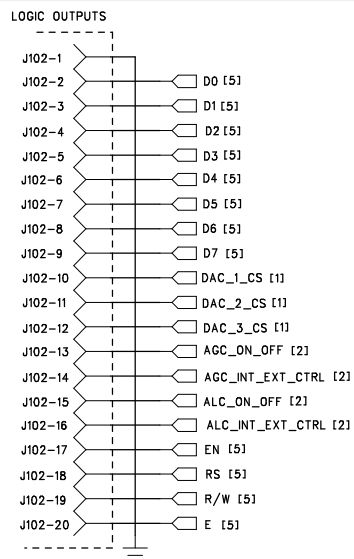
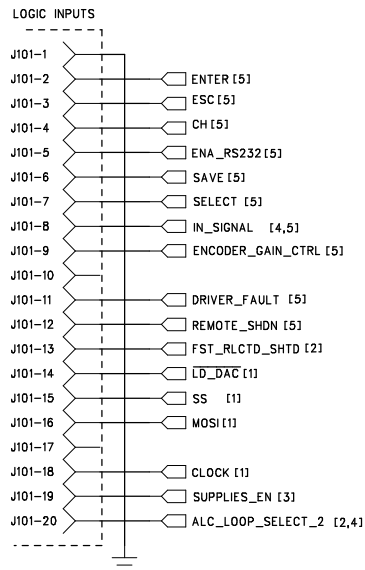
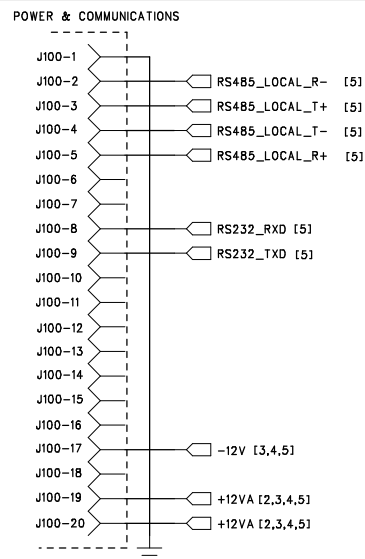
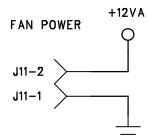
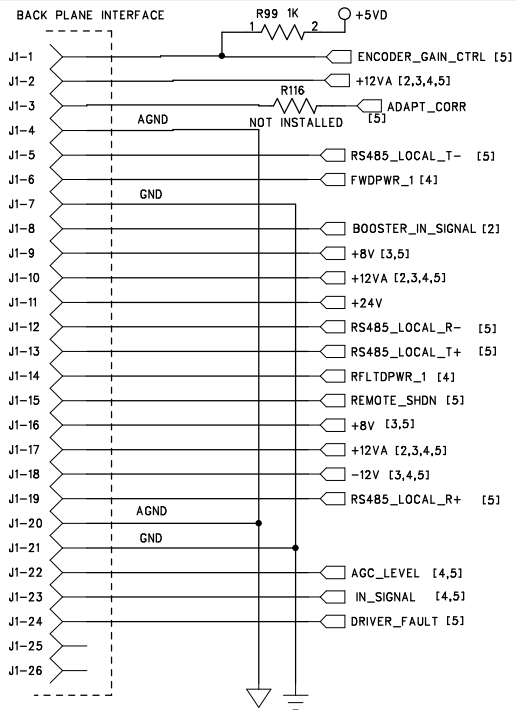
DRAWING NO:

B-47266084-030

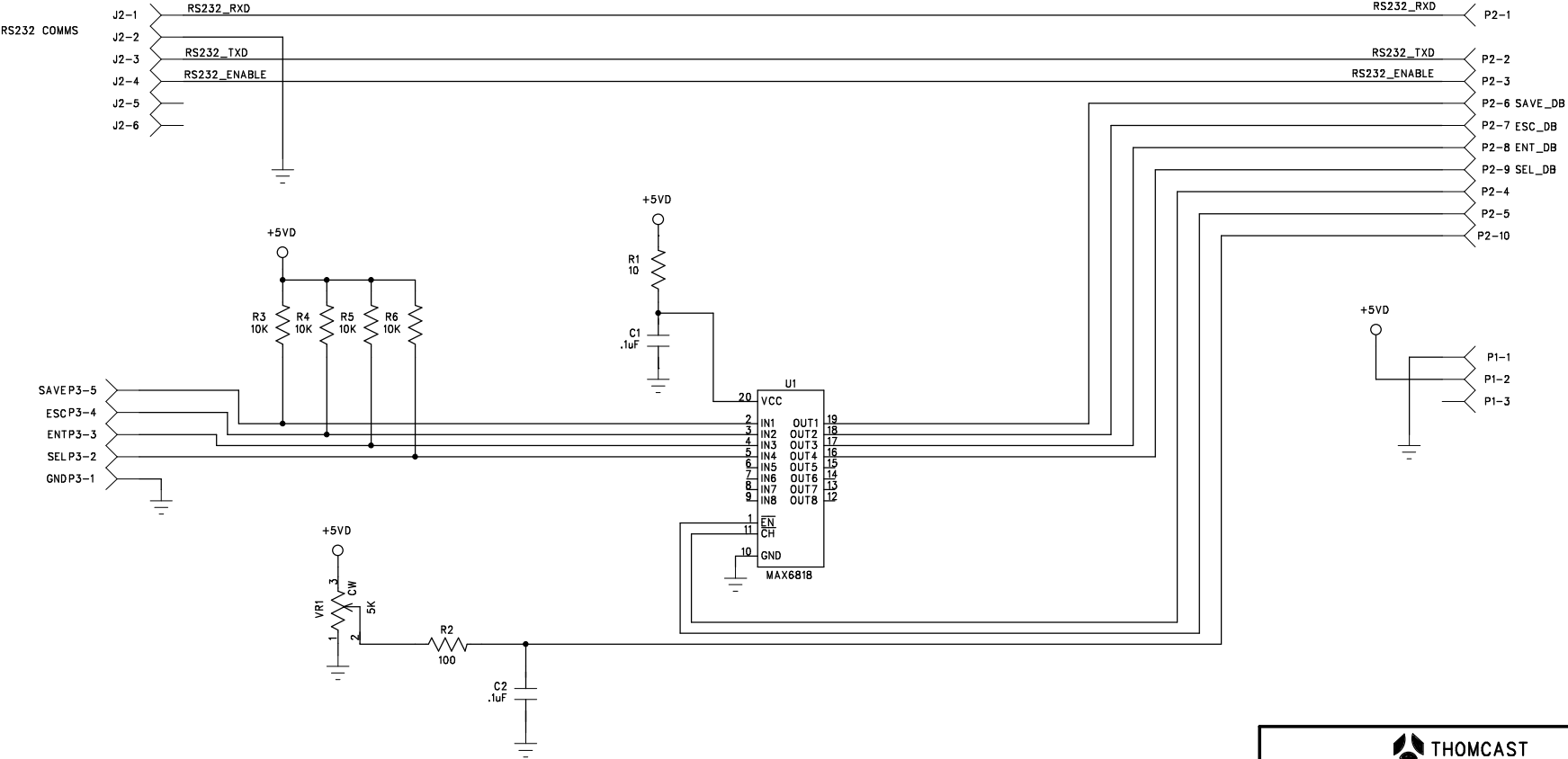
SHEET: 3 of 5

SEE SHEET ONE





REVISION RECORD			
LTR	ECO NO:	APPROVED:	DATE:





THOMCAST

COMMUNICATIONS Inc.

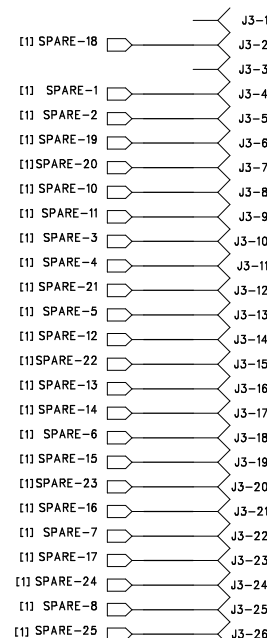
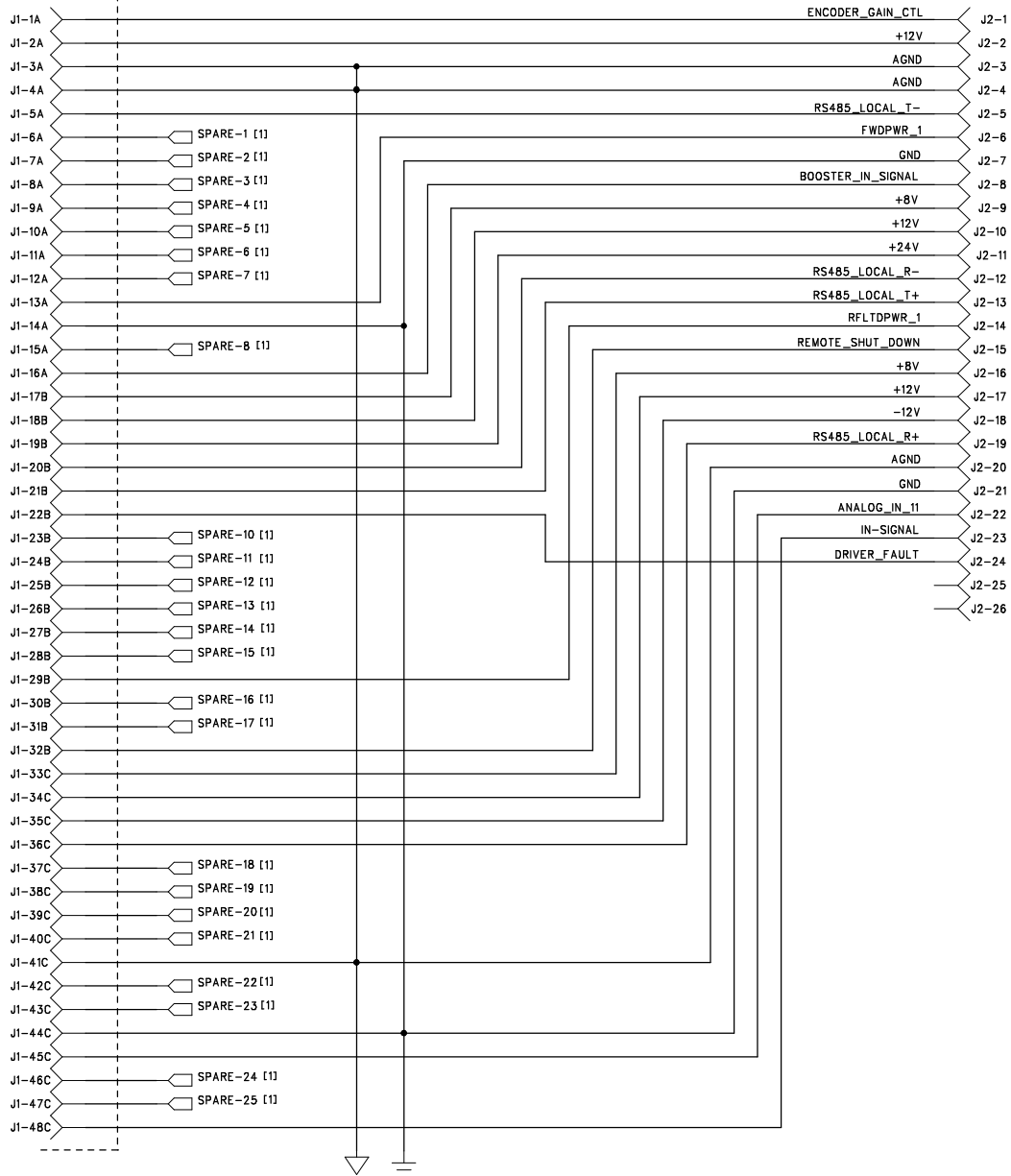
COMMWAY DIVISION

TITLE:

SCHEMATIC, FRONT PANEL
UPCONVERTER PLUG-IN

DRAWN: K.HARDING	DATED: 9-29-99	DRAWING NO: B-47266086-030
CHECKED: A.CASTRO	9-30-99	
ELEC. ENGR: A.CASTRO	9-30-99	
RELEASED: A.CASTRO	9-30-99	
SCALE:		REV: P1

BACK PLANE INTERFACE



REVISION RECORD			
LTR	ECD NO:	APPROVED:	DATE:

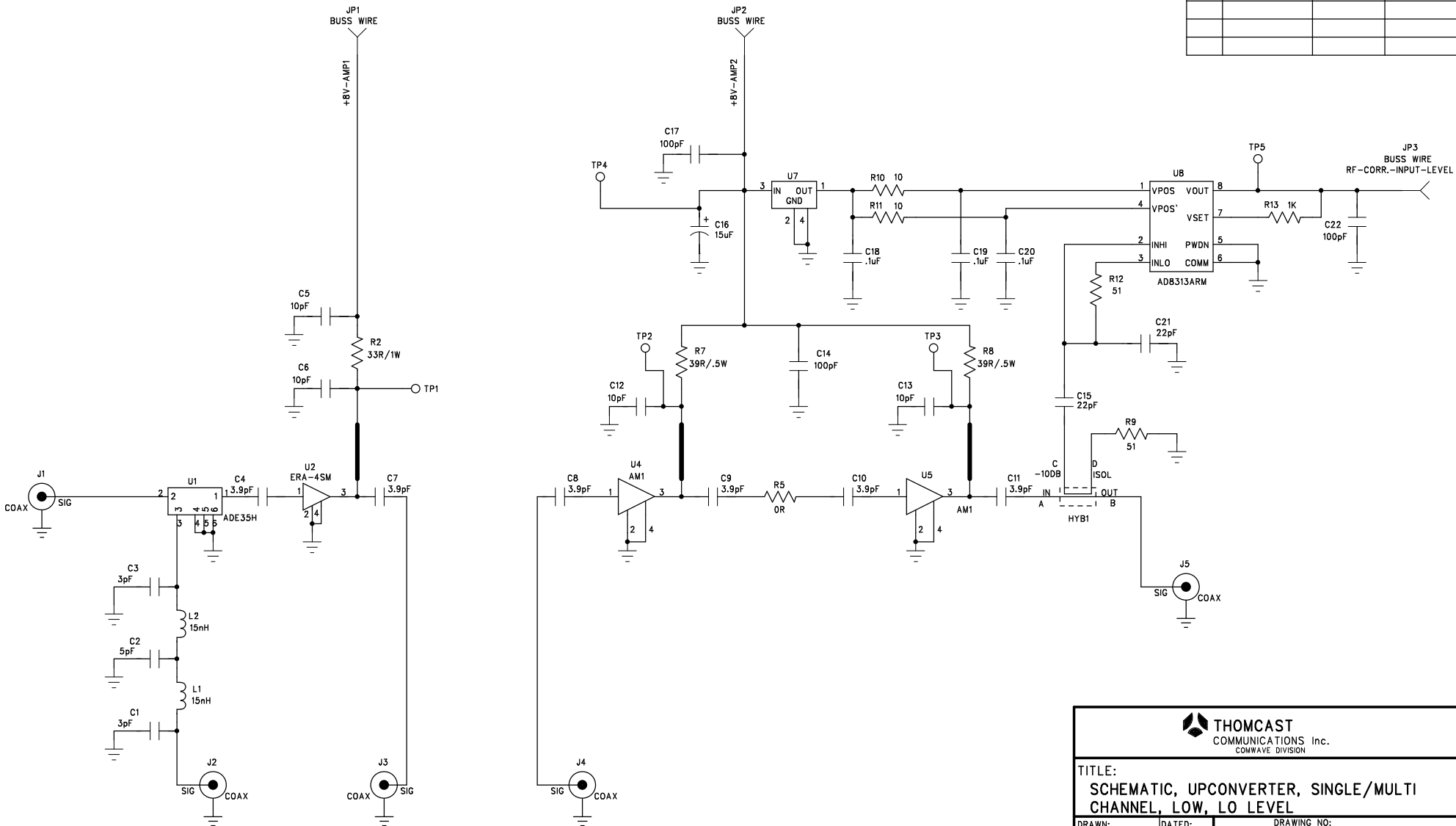


THOMCAST
COMMUNICATIONS Inc.
COMM-WAVE DIVISION

TITLE: SCHEMATIC, UPCONVERTER
CONNECTOR INTERFACE

DRAWN: K.HARDING	DATED: 10-22-99	DRAWING NO: B-47266149-030
CHECKED: A.CASTRO	10-22-99	
ELEC. ENGR: A.CASTRO	10-22-99	
RELEASED: A.CASTRO	10-22-99	
SCALE:		REV: P1

REVISION RECORD			
LTR	ECO NO:	APPROVED:	DATE:

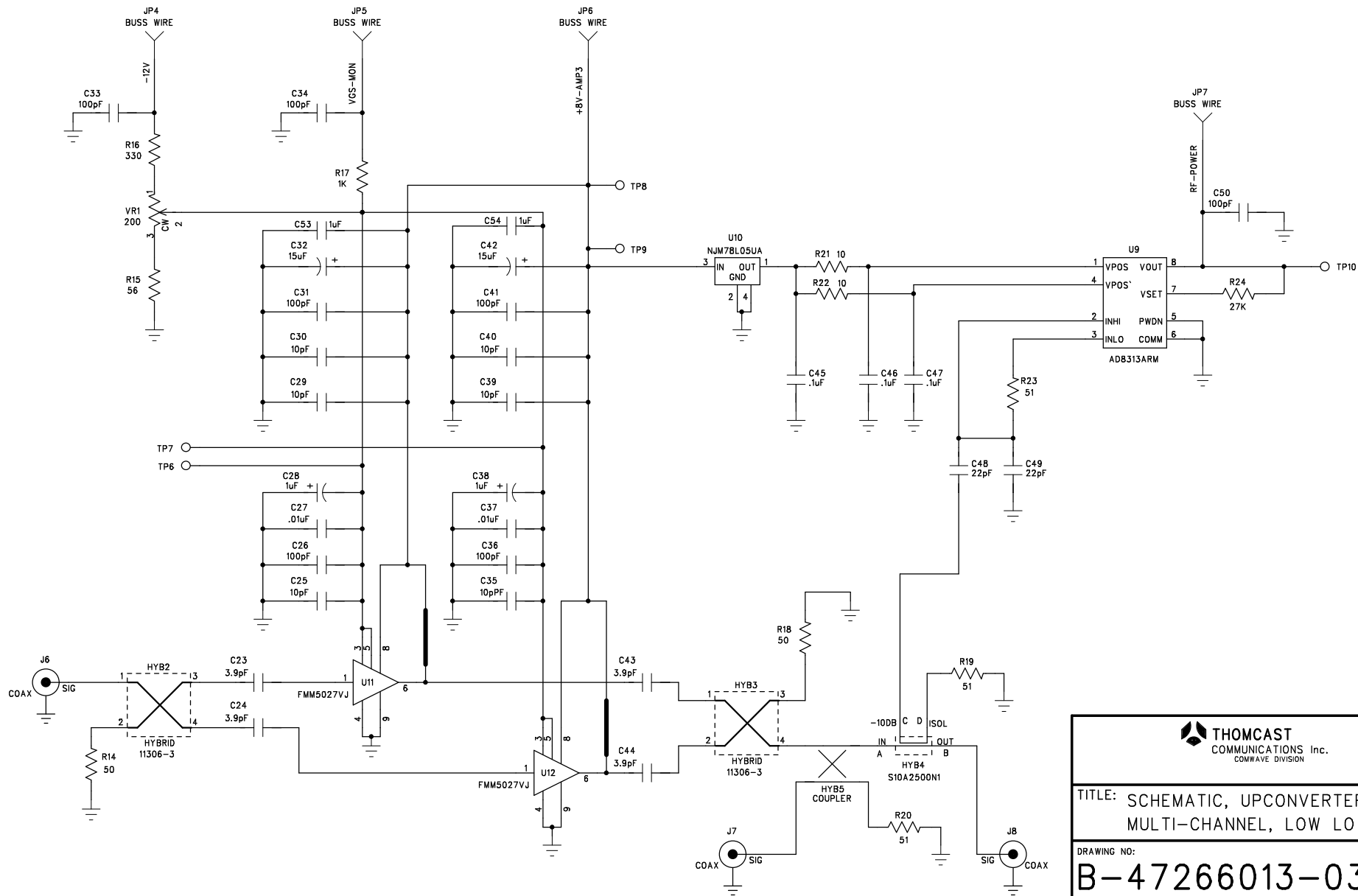




THOMCAST
COMMUNICATIONS Inc.
COMWAVE DIVISION

TITLE:
SCHEMATIC, UPCONVERTER, SINGLE/MULTI
CHANNEL, LOW, LO LEVEL

DRAWN: K.HARDING	DATED: 8-26-99	DRAWING NO: B-47266013-030	
CHECKED: A.CASTRO	8-30-99	SHEET: 1 OF 2	
ELEC. ENGR: A.CASTRO	8-30-99		
RELEASED: A.CASTRO	8-30-99		
SCALE:		REV: P1	



THOMCAST
COMMUNICATIONS Inc.
COMWAVE DIVISION

TITLE: SCHEMATIC, UPCONVERTER, SINGLE/
MULTI-CHANNEL, LOW LO LEVEL

DRAWING NO:

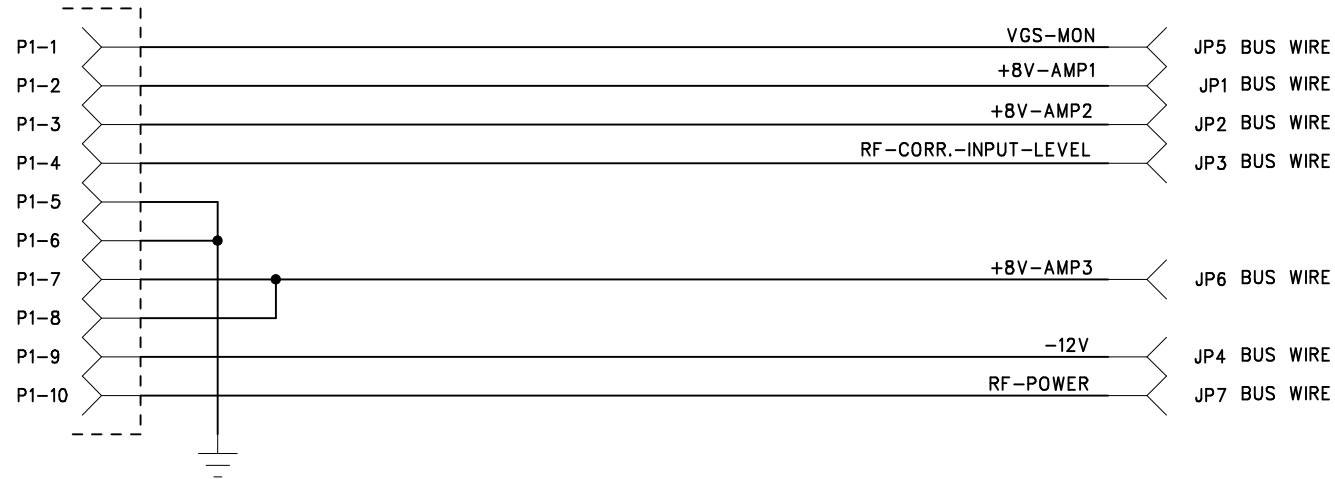
B-47266013-030

SHEET: 2 OF 2

REVISION RECORD			
LTR	ECO NO:	APPROVED:	DATE:

MODULE CONNECTOR

BUSS WIRE FEED-THRU'S
TO UPCONVERTER BOARD

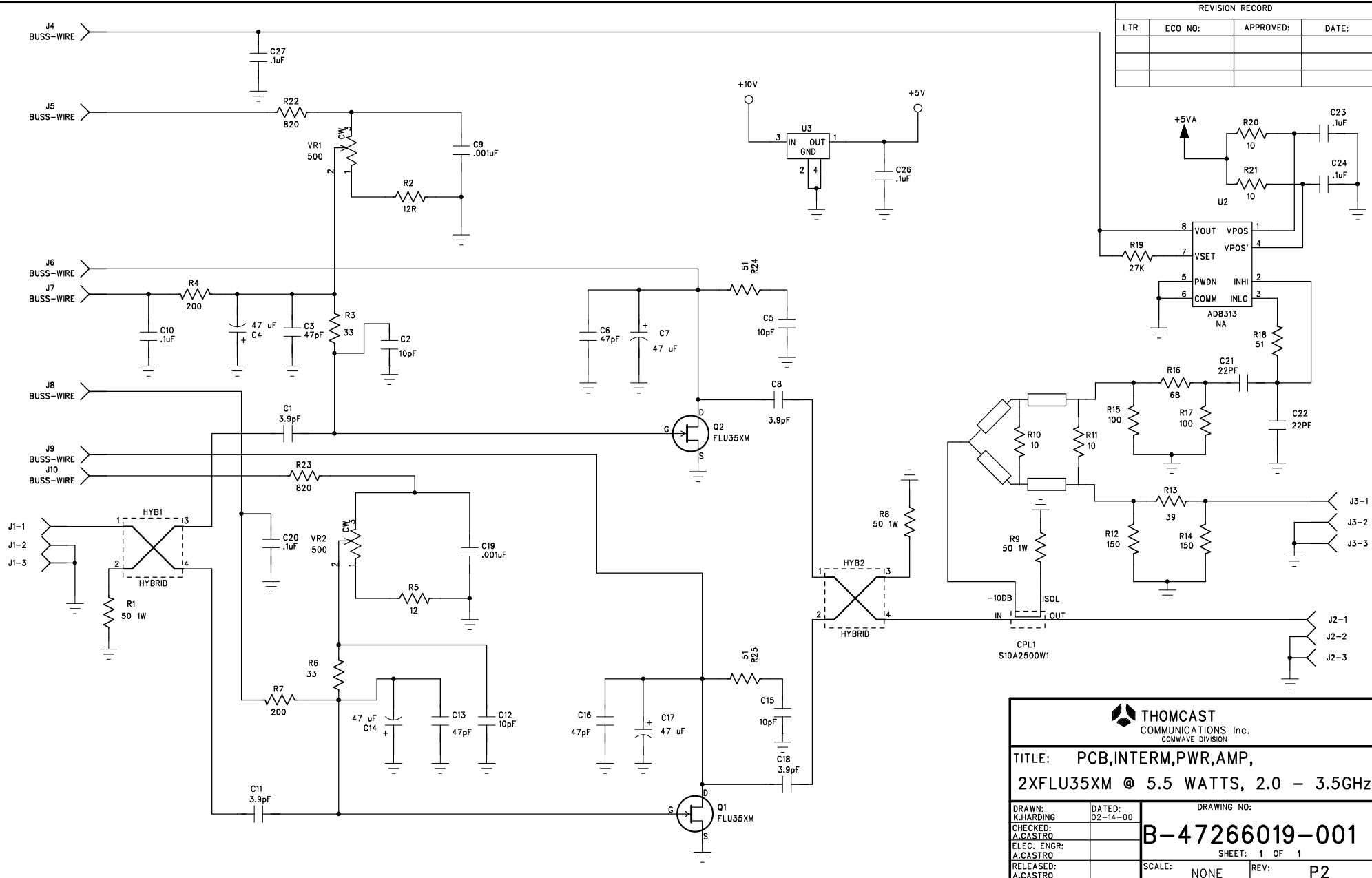


THOMCAST
COMMUNICATIONS Inc.
COMWAVE DIVISION

TITLE:

SCHEMATIC, DISTRIBUTION FOR UPCONVERTER

DRAWN: K.HARDING	DATED: 9-01-99	DRAWING NO:	
CHECKED: A.CASTRO	9-02-99	A-47266011-030	
ELEC. ENGR: A.CASTRO	9-02-99		
RELEASED: A.CASTRO	9-02-99	SCALE:	REV: P1



REVISION RECORD			
LTR	ECO NO:	APPROVED:	DATE:

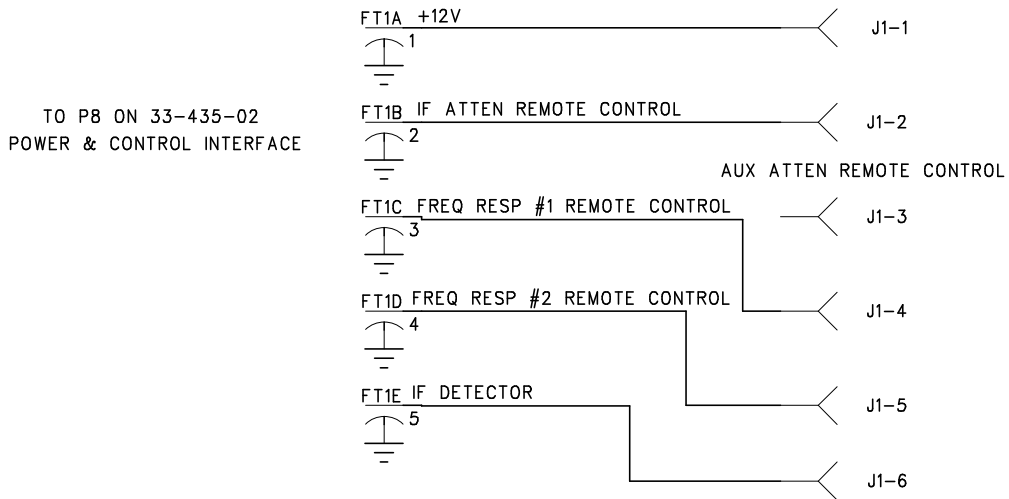
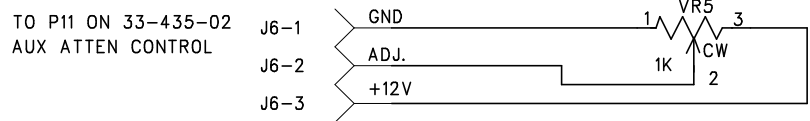
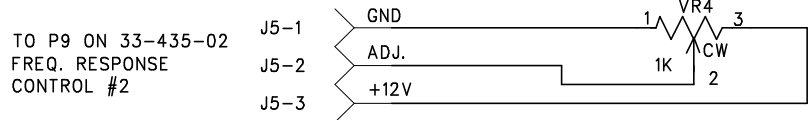
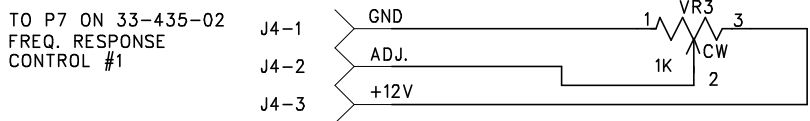
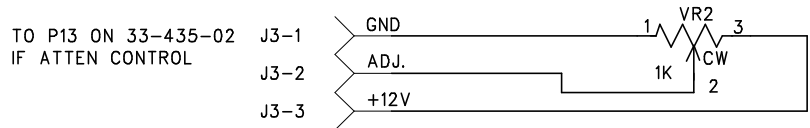
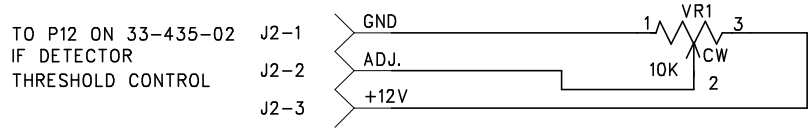
**THOMCAST**
COMMUNICATIONS Inc.
COMM.WAVE DIVISION

TITLE: PCB,INTERM,PWR,AMP,
2XFLU35XM @ 5.5 WATTS, 2.0 - 3.5GHz

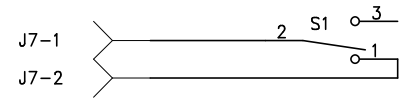
DRAWN: K.HARDING	DATED: 02-14-00	DRAWING NO:
CHECKED: A.CASTRO		B-47266019-001
ELEC. ENGR: A.CASTRO		
RELEASED: A.CASTRO		

SCALE: NONE	REV: P2
-----------------------	-------------------

SHEET: 1 OF 1



TO JK21 ON 33-435-02
AUTO/MANUAL ALC SWITCH



REVISION RECORD			
LTR	ECO NO:	APPROVED:	DATE:

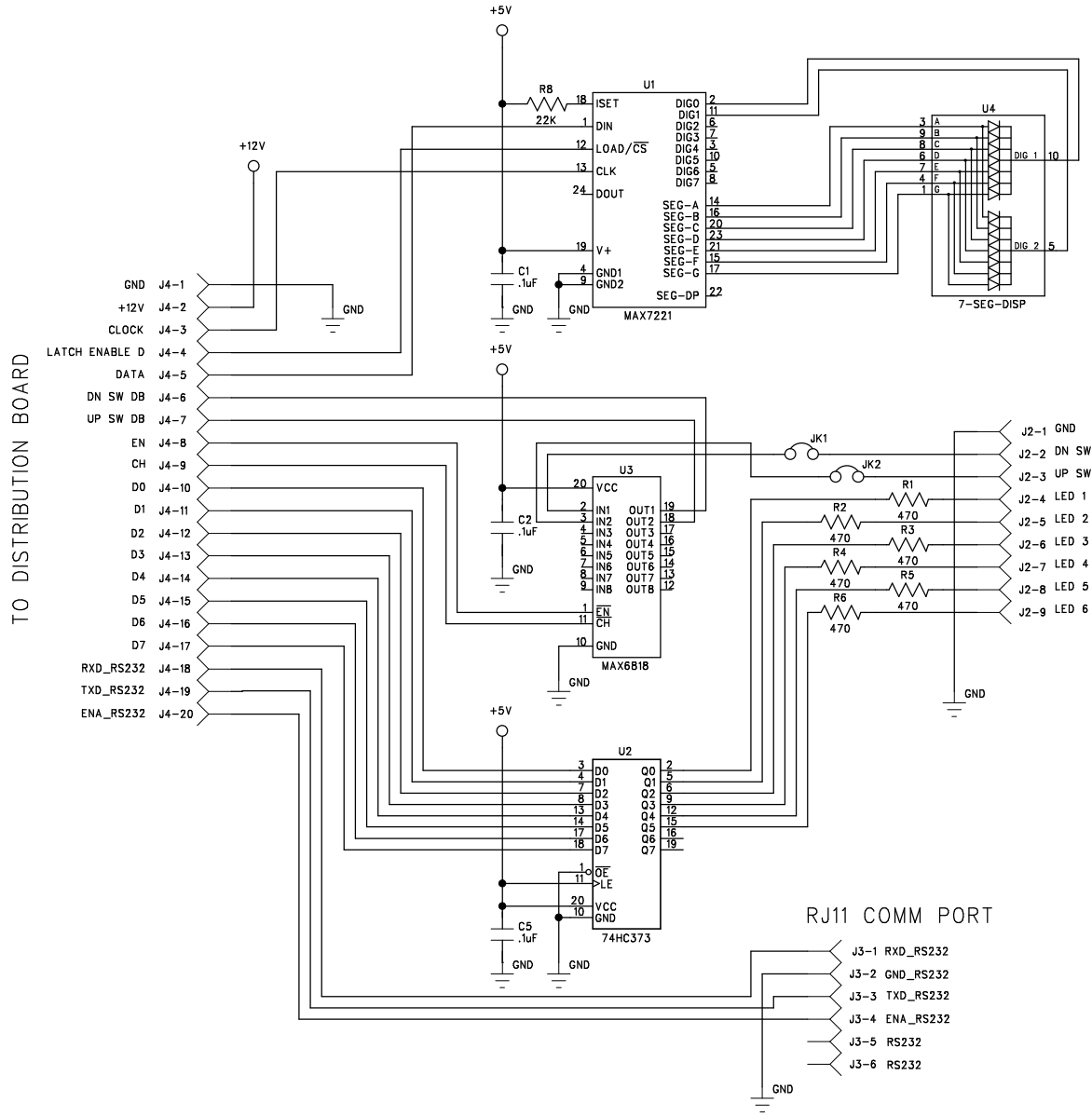
COMMUNICATION MICROWAVE CORP.
CRESTWOOD INDUSTRIAL PARK
MOUNTAINTOP PA. 18707

**TITLE: SCHEMATIC,CONTROL PANEL IF
LINEAR PROCESSOR**

DRAWN: D. WIKE	DATED: 09/08/98	A-33-472-01	
CHECKED: K. HARDING	11/24/98		
ELEC. ENGR:			
RELEASED: D. WIKE	11/24/98	SCALE: NONE	REV: A

SHEET: 1 OF 1

REVISION RECORD			
LTR	ECO NO:	APPROVED:	DATE:
X	XXXX	XXXX	XXX
X	XXXX	XXXX	XXX



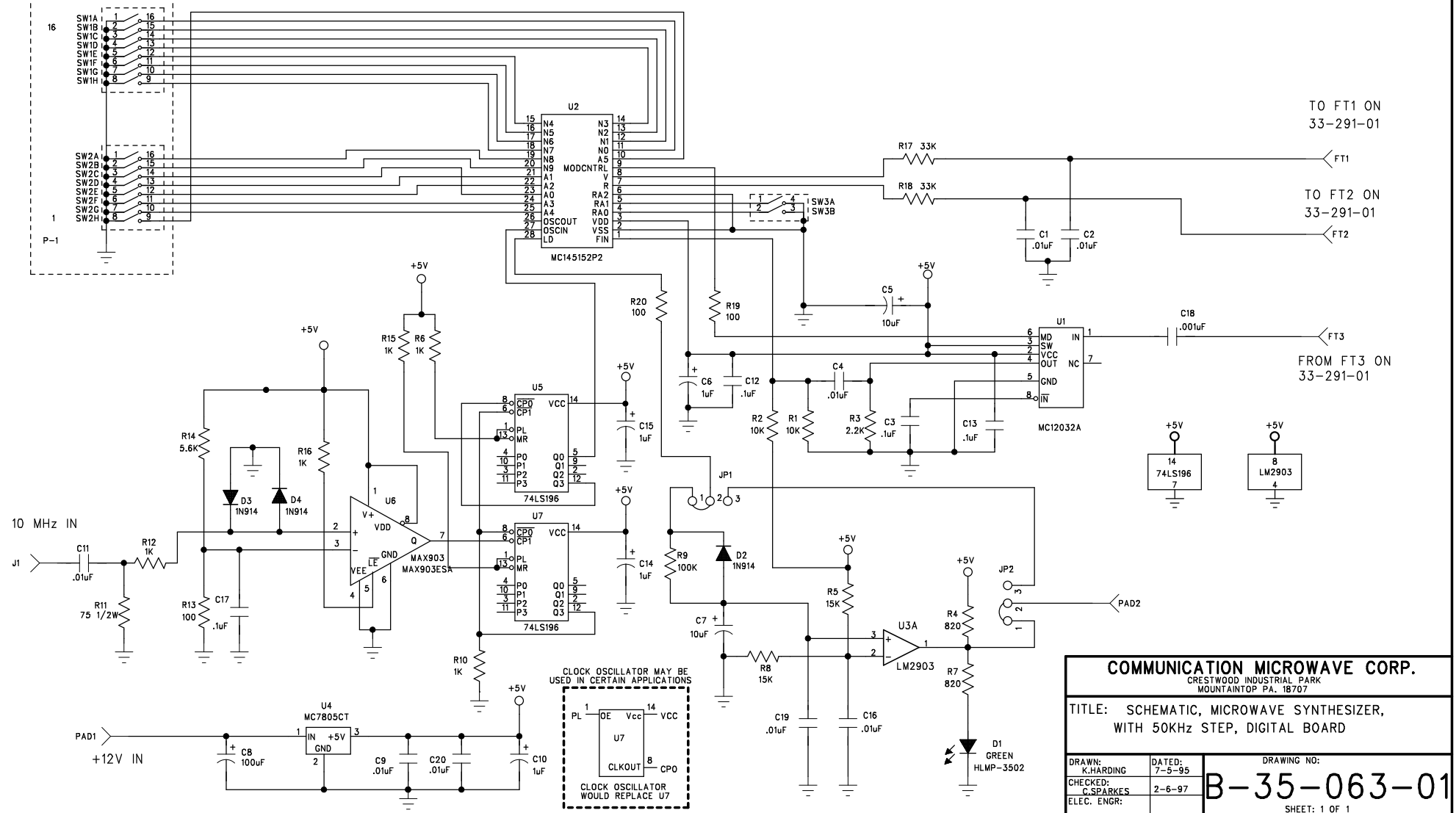
TO FRONT PANEL OVERLAY

COMMUNICATION MICROWAVE CORP. CRESTWOOD INDUSTRIAL PARK MOUNTAINTOP PA. 18707			
TITLE: SCHEMATIC,LO PLUG-IN DISPLAY BOARD			
DRAWN: D. WIKE	DATED: 08/17/99	DRAWING NO:	
CHECKED: xxx	xxx	B-47266023-030	
ELEC. ENGR:		SHEET: 1 OF 1	
RELEASED: xxx	xxx	SCALE: NONE	REV: P1

FOR AGILE CONTROLLER
16 POS. CONNECTOR IS
USED INSTEAD OF SW1 & SW2

NOTE: UNLESS OTHERWISE SPECIFIED
1. ALL RESISTORS ARE IN OHM'S,1/8W CHIP

REVISION RECORD			
LTR	ECO NO:	APPROVED:	DATE:
E	96-210	C.SPARKES	6-26-96
F	97-007	D.SCHOCK	2-3-97
D	95-404	L.HANEY	12-27-95



TO FT1 ON
33-291-01

TO FT2 ON
33-291-01

FROM FT3 ON
33-291-01

COMMUNICATION MICROWAVE CORP.
CRESTWOOD INDUSTRIAL PARK
MOUNTAINTOP PA. 18707

TITLE: SCHEMATIC, MICROWAVE SYNTHESIZER,
WITH 50KHz STEP, DIGITAL BOARD

DRAWN:
K.HARDING

DATED:
7-5-95

CHECKED:
C.SPARKES

ELEC. ENGR:

RELEASED:
A.BRAGALONE

DRAWING NO:
B-35-063-01

SHEET: 1 OF 1

SCALE:
2-6-97

REV: F

6

5

4

3

2

1

D

C

B

A

D

C

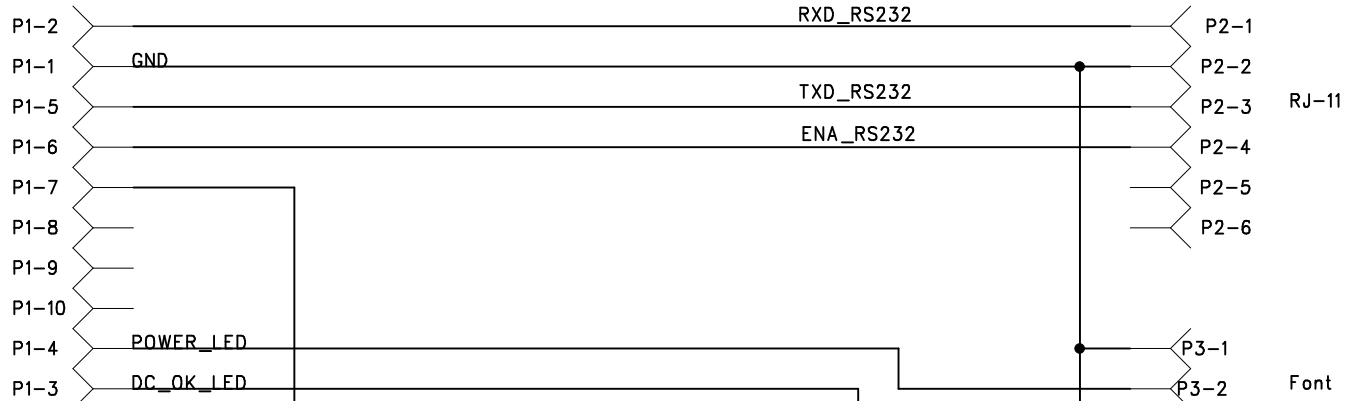
B

A

REVISION RECORD

LTR	ECO NO:	APPROVED:	DATE:

TO DC CONVERTER PCB



Thomcast Communications, INC

CRESTWOOD INDUSTRIAL PARK
MOUNTAINTOP PA. 18707

TITLE:

Display Circuit Card
Power Supply Module

DRAWN:

Chris Smith

DATED:

8/24/99

CHECKED:

Chris Smith

9-8-99

ELEC. ENGR:

Chris Smith

9-8-99

RELEASED:

Chris Smith

9-8-99

DRAWING NO:

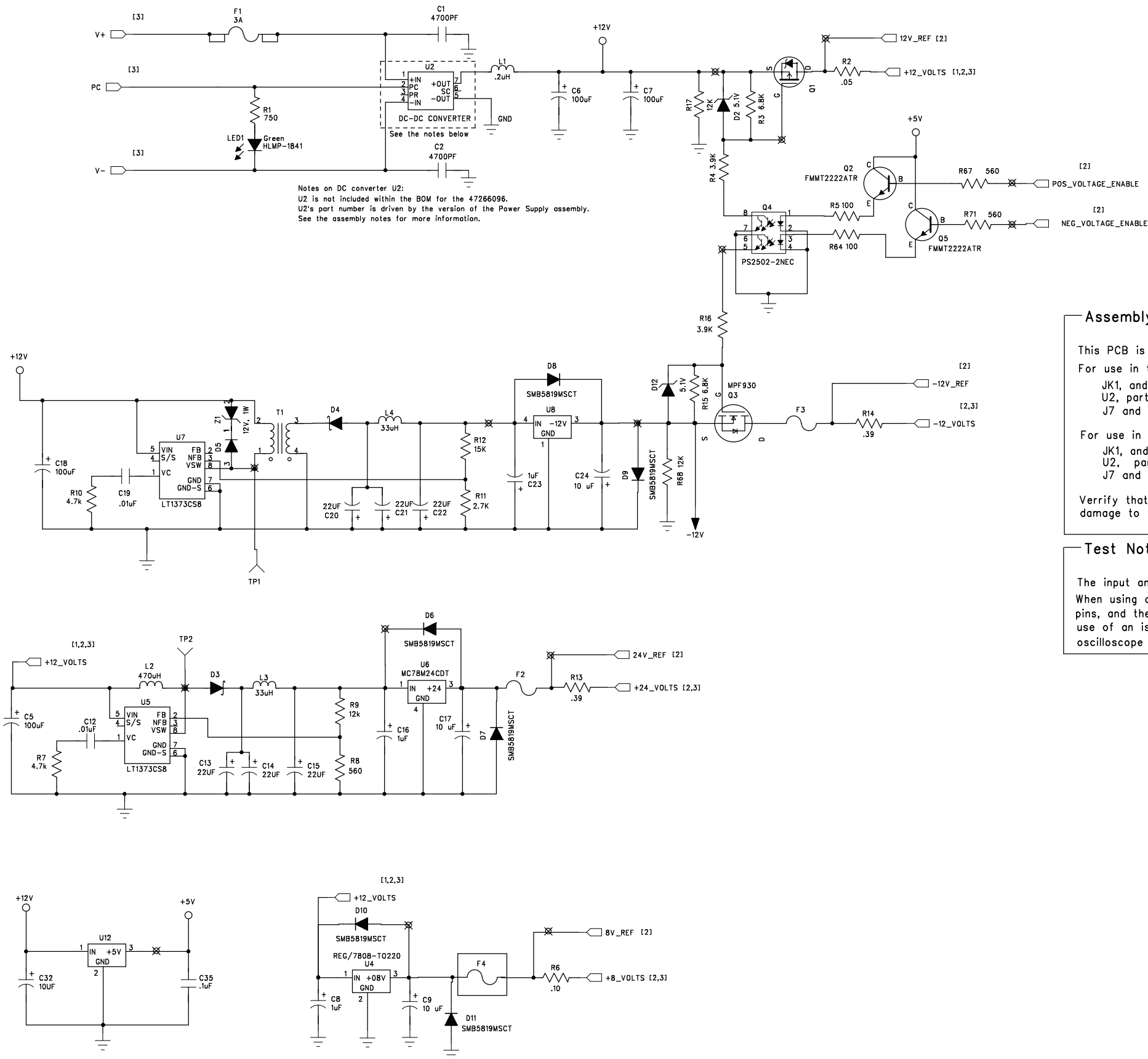
A-47266070-030

SHEET: 1 OF 1

SCALE:

REV: P1

REVISION RECORD			
LTR	ECO NO:	APPROVED:	DATE:



Assembly Notes

This PCB is configured for both AC and DC front end power supply versions. For use in the 47266099-01 version, DC front end, ensure:

- JK1, and JK2 are added (closed)
- U2, part number 750080-01 is installed on the extrusion.
- J7 and J8 are unused.

For use in the 47266099-02 version, AC front end, ensure:

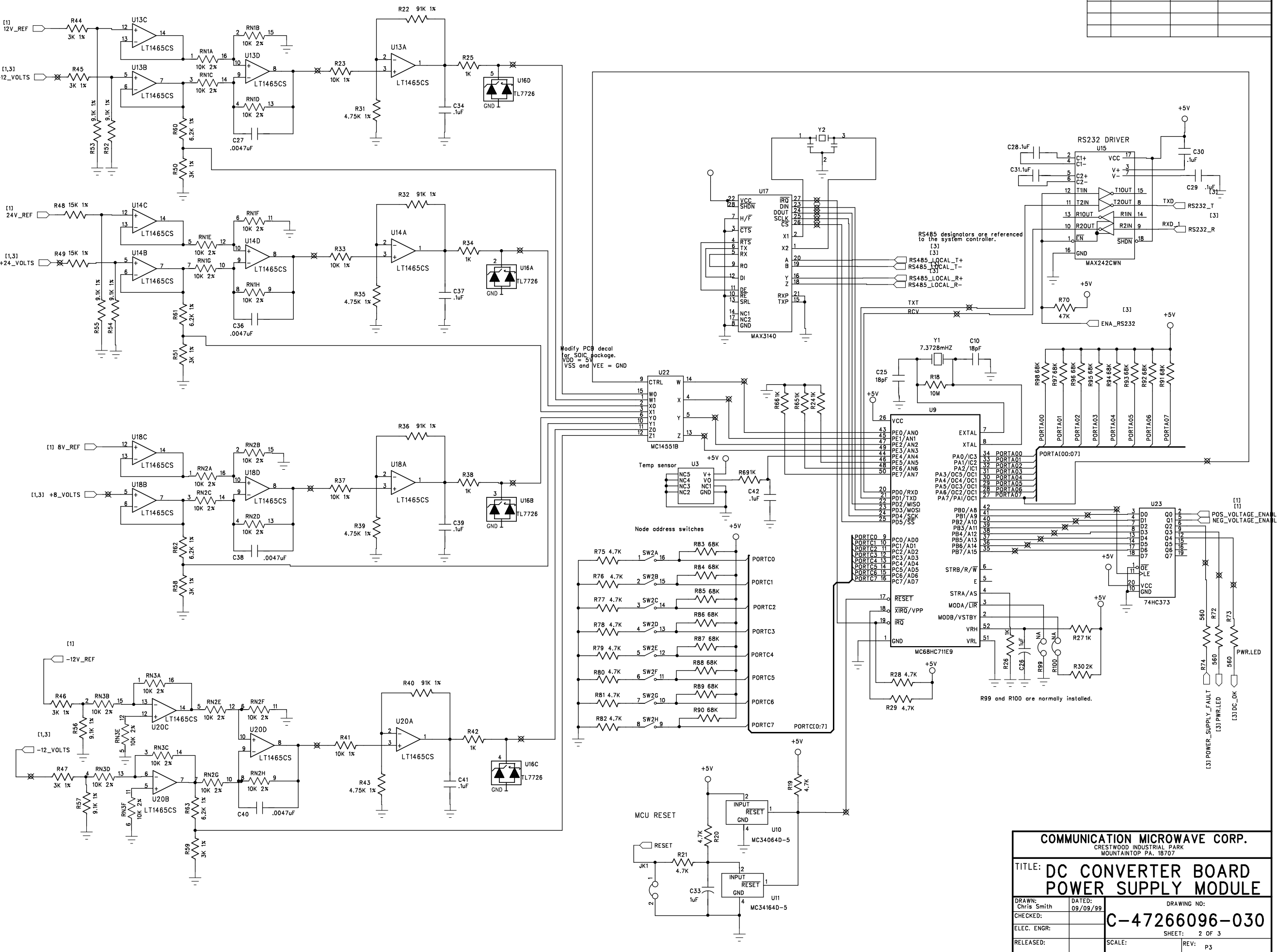
- JK1, and JK2 are OPEN.
- U2, part number 750311-01 is installed on the extrusion.
- J7 and J8 are harnessed to the AC Filter board.

Verrify that the correct settings are made prior to module testing or, damage to the PCB and DC converter modules will occur.

Test Notes

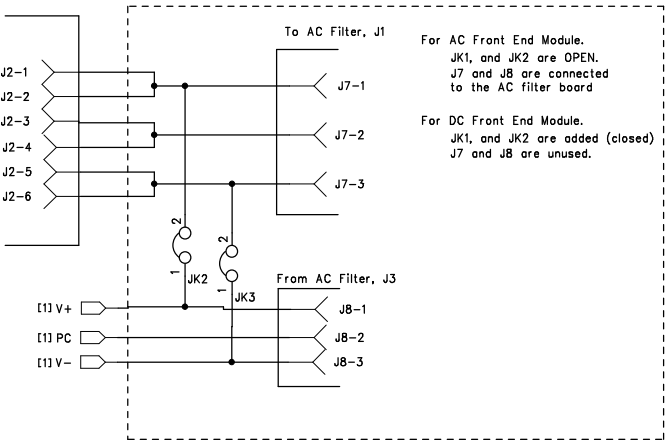
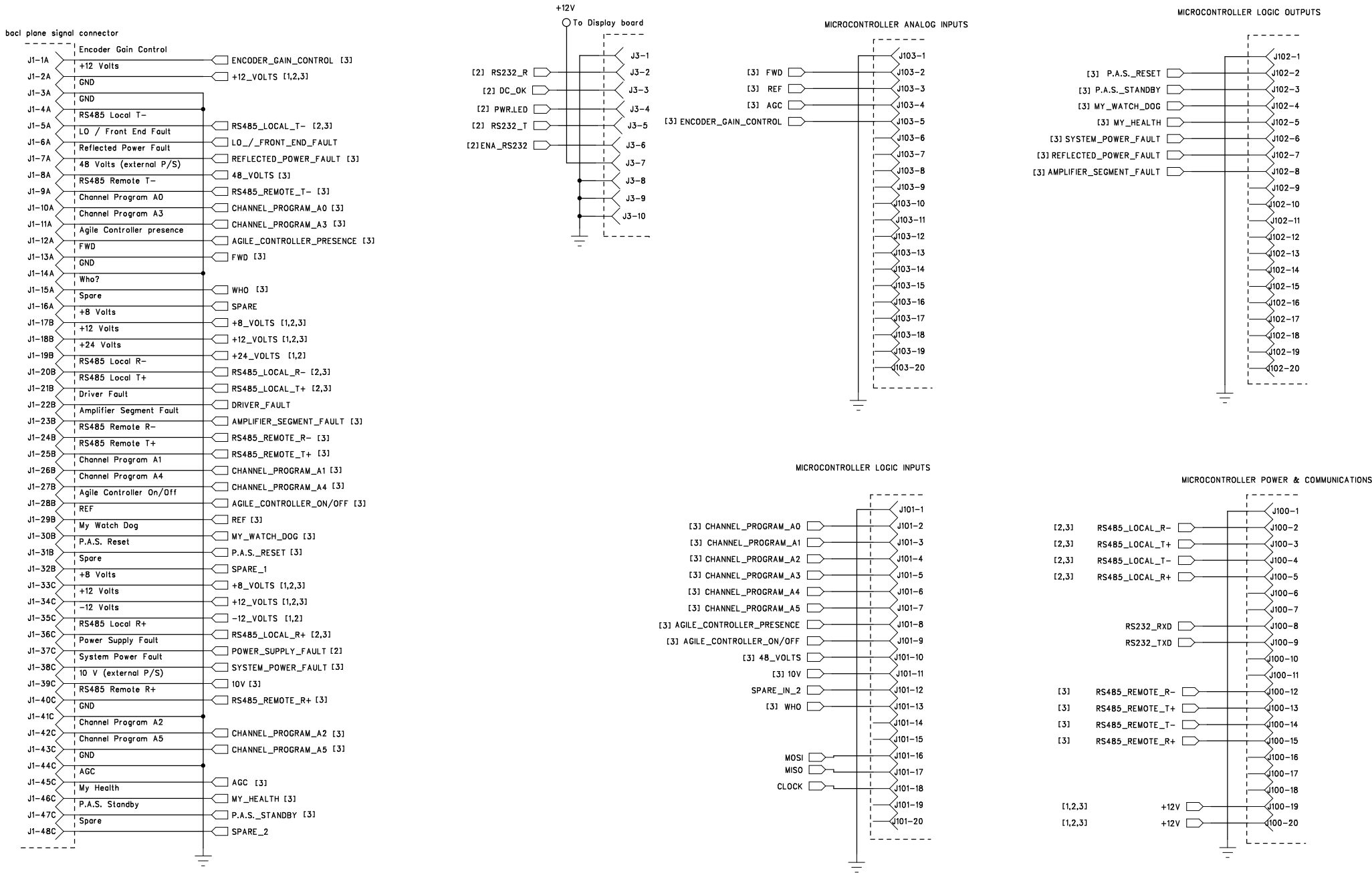
The input and output from the DC converter are isolated from each other. When using a dual trace oscilloscope, do not connect one probe to the input pins, and the other probe to the output pins simultaneously (without an use of an isolation transformer) or damage to the converter module and oscilloscope will result.

REVISION RECORD			
LTR	ECO NO:	APPROVED:	DATE:



COMMUNICATION MICROWAVE CORP.			
CRESTWOOD INDUSTRIAL PARK MOUNTAINTOP PA. 18707			
TITLE: DC CONVERTER BOARD POWER SUPPLY MODULE			
DRAWN: Chris Smith	DATED: 09/09/99	DRAWING NO: C-47266096-030	
CHECKED:		SHEET: 2 OF 3	
ELEC. ENGR:		REV: P3	
RELEASED:		SCALE:	

REVISION RECORD			
LTR	ECO NO:	APPROVED:	DATE:



COMMUNICATION MICROWAVE CORP.			
CRESTWOOD INDUSTRIAL PARK MOUNTAINTOP PA. 18707			
TITLE: DC CONVERTER BOARD POWER SUPPLY MODULE			
DRAWN: C. Smith	DATED: 09/09/99	DRAWING NO: C-47266096-030	
CHECKED:		SHEET: 3 OF 3	
ELEC. ENGR:		SCALE:	REV: P3
RELEASED:			

6

5

4

3

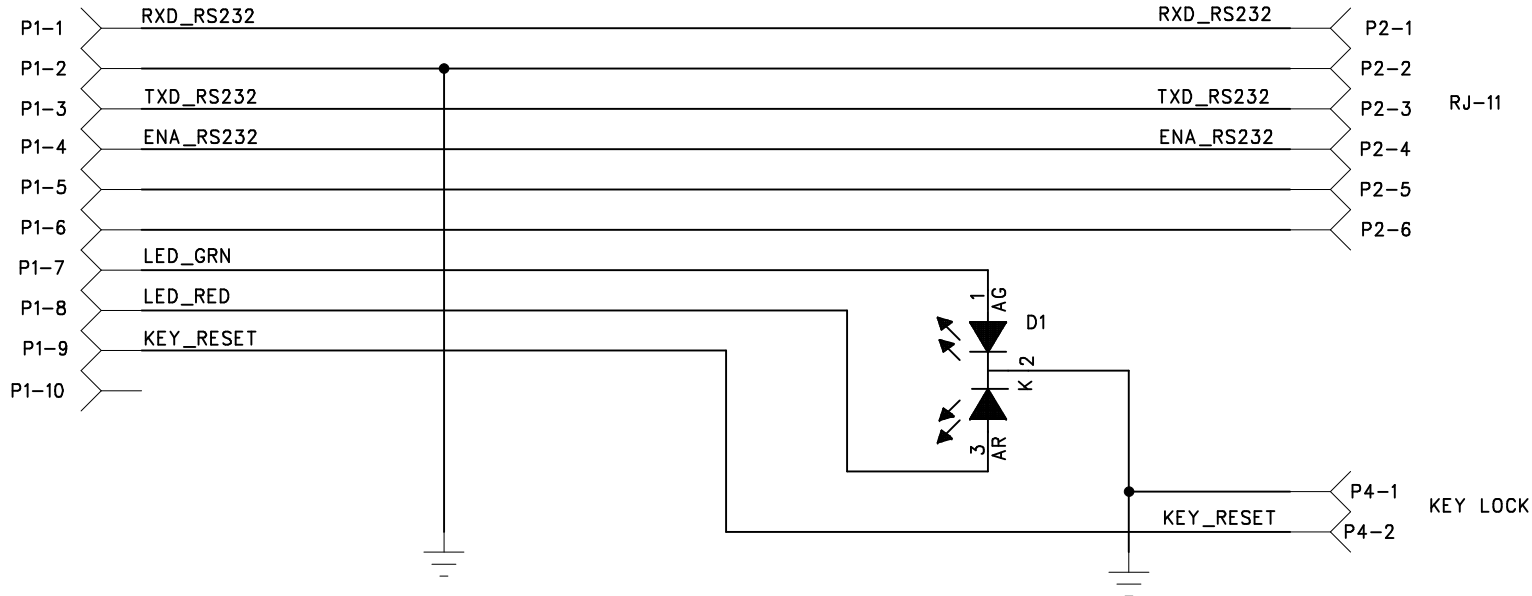
2

1

REVISION RECORD

LTR	ECO NO:	APPROVED:	DATE:

TO MICROCONTROLLER



COMMUNICATION MICROWAVE CORP.

CRESTWOOD INDUSTRIAL PARK
MOUNTAINTOP PA. 18707

TITLE:

SCHEMATIC, FRONT PANEL DISPLAY
WITH DIAGNOSTICS PORT

DRAWN:

K.HARDING

CHECKED:

C.UNGVARSKY

ELEC. ENGR:

C.UNGVARSKY

RELEASED:

K.HARDING

DATED:

4-22-97

4-22-97

4-22-97

8-13-97

DRAWING NO:

A-33-352-01

SHEET: 1 OF 1

SCALE:

REV: A