

ADC

TELECOMMUNICATIONS

EXHIBIT VIII

SCHEMATICS Part 1 of 2 BTS-7010

BTS-7010
MULTI-CHANNEL BOOSTER

DRAWING LIST (SUBASSEMBLIES)

Bandpass Filter Assembly:

Block Diagram, Bandpass Filter Assembly 1139975

Interconnect, Bandpass Filter Assembly 1139973

The Bandpass Filter Assembly contains the following boards/modules:

Bandpass Filter Control Board 1114836

Bandpass Filter Module 1123338

Bandpass Filter Chassis:

Bandpass Filter Backplane Board 1128530

Downstream Transfer Switch Assembly:

Block Diagram, Downstream Transfer Switch Assembly 1136335

Interconnect, Downstream Transfer Switch Assembly 1121610

The Downstream Transfer Switch Assembly contains the following boards/modules:

Downstream Transfer Switch Control Board 1121614

Front Panel LED Board 1113710

SP4T Transfer Switch (Part # 04-112E19)

Power Amplifier Assembly:

Interconnect, Power Amplifier Assembly1171358

The Power Amplifier Assembly contains the following boards/modules:

Manual Control Board.....	1155954
Signal Cancellation Board.....	1156445
Signal Correction Board.....	1156444
Power Amplifier Board.....	1165711
Correction Amplifier Board.....	1165714
8 Section Bias Protection Board	1586-3109
Dual Output Power Supply (DC/DC Converter) Board.....	ADC-DC380-1012

Power Supply Assembly:

Block Diagram, Power Supply Assembly.....1151455

Interconnect, Power Supply Assembly.....1113841

The Power Supply Assembly contains the following boards/modules:

Power Factor Correction (PFC) Board	1112214
Astec MP4/2L/1L switching Power Supply	(see MP4 specification sheets)
Front Panel LED Board.....	1113710

Power Supply/Power Amplifier Chassis:

Power Supply/Power Amplifier Backplane Board 1121681

Upconverter Assembly:

Block Diagram, Upconverter Assembly1175458

Interconnect, Upconverter Assembly1152963

The Upconverter contains the following boards/modules:

Block Upconverter Board (2.5 – 2.7 GHz).....	1138753
--	---------

Multiplexer Assembly:

Block Diagram, Multiplexer Assembly.....1090775

The Multiplexer Assembly contains the following boards/modules:

Multiplexer Board1113588

Upstream/Downstream Switch Assembly:

Block Diagram, Upstream/Downstream Switch Assembly 1144128

Interconnect, Upstream/Downstream Switch Assembly..... 1126654

The Upstream/Downstream Switch Assembly contains the following boards/modules:

Upstream/Downstream Control Board1125362

Dual SP4T RF Switch Board1125367

Upper RF Signal Processing Chassis:

Upper RF Signal Processing Backplane Board..... 1149605

Lower RF Signal Processing Chassis:

Lower RF Signal Processing Backplane Board 1149606

10 MHz Frequency Reference Assembly:

Block Diagram, 10 MHz Frequency Reference Assembly 1129658

Interconnect, 10 MHz Frequency Reference Assembly 1129669

The 10 MHz Frequency Reference Assembly contains the following boards/modules:

10 MHz Reference Board.....1136560

Front Panel LED Board.....1113710

TrueTime GPS model 87-664.....87-664

10MHz Reference Generator Board 1519-3126

Downstream Controller Assembly:

The Downstream Controller Assembly contains the following boards/modules:

Downstream Controller Board1132140

Automatic Back-up System (ABS) Controller Assembly:

The ABS Controller Assembly contains the following boards/modules:

ABS Controller Board1132142

System Monitoring Assembly:

Block Diagram, System Monitoring Assembly 1156006

Interconnect, System Monitoring Assembly 1156005

The System Monitoring Assembly contains the following boards/modules:

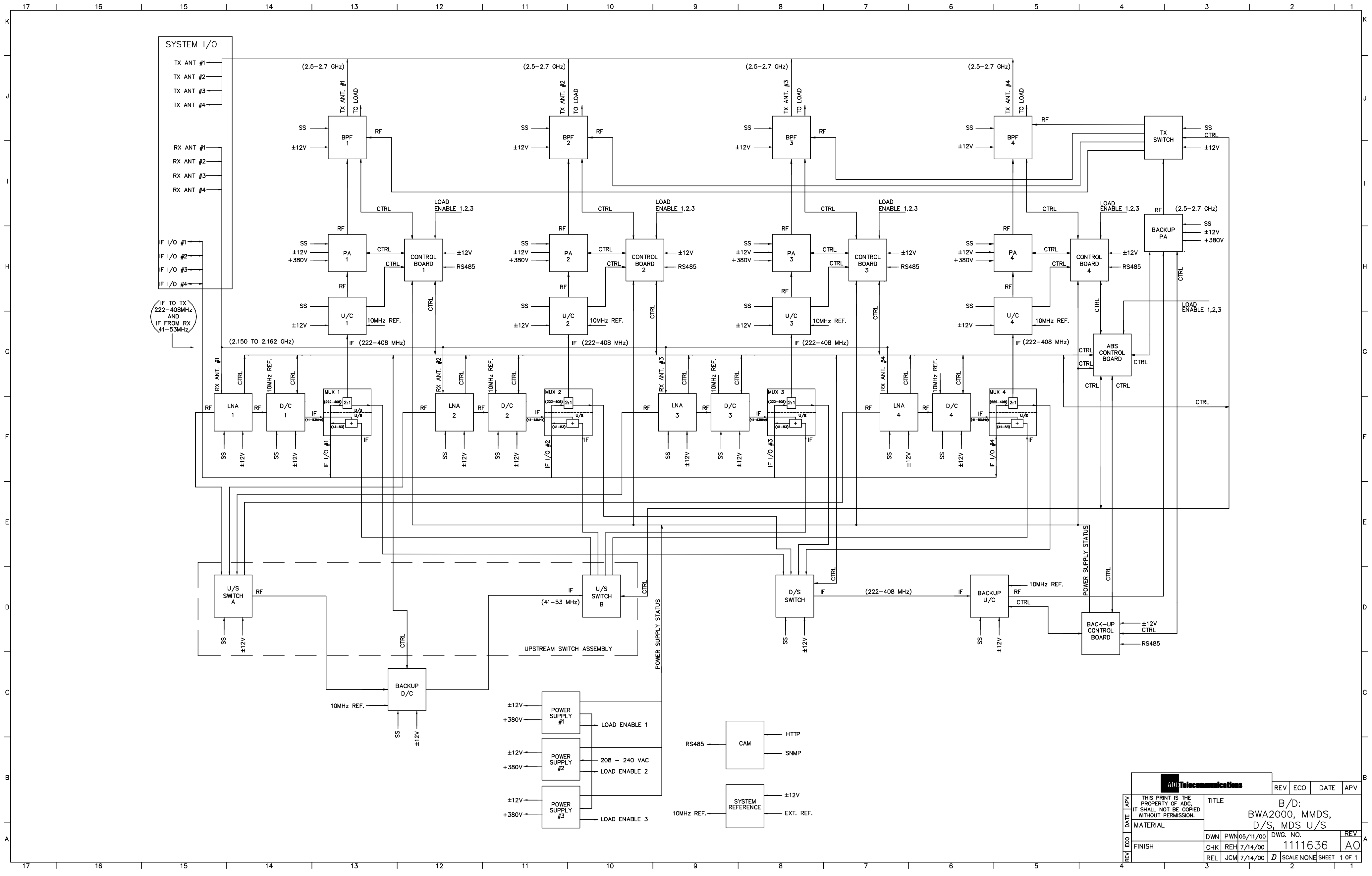
LCD Backplane Interface Board1116295

Front Panel LED Board1113710

Switch Board 1527-3406

Control Chassis:

Control Chassis Backplane Board 1119953



APV		DATE		REV		ECO		DATE		APV	
THIS PRINT IS THE PROPERTY OF ADC, IT SHALL NOT BE COPIED WITHOUT PERMISSION.		MATERIAL		FINISH		CHK		REL		JCM	
TITLE		B/D: BWA2000, MMDS, D/S, MDS U/S		DWG. NO.		1111636		SCALE		NONE	
REV		DWN		PWN		05/11/00		DWG. NO.		REV	
7/14/00		7/14/00		7/14/00		7/14/00		7/14/00		7/14/00	
1		2		3		4		5		6	
SHEET		1 OF 1		1		2		3		4	

BTS-7010
MULTI-CHANNEL BOOSTER

DRAWING LIST (SUBASSEMBLIES)

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Block Diagram, Bandpass Filter Assembly 1139975

Interconnect, Bandpass Filter Assembly 1139973

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Bandpass Filter Module 1123338

Bandpass Filter Chassis:

Bandpass Filter Backplane Board 1128530

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Block Diagram, Downstream Transfer Switch Assembly 1136335

Interconnect, Downstream Transfer Switch Assembly 1121610

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Front Panel LED Board 1113710

SP4T Transfer Switch (Part # 04-112E19)

Power Amplifier Assembly:

Interconnect, Power Amplifier Assembly1171358

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Signal Correction Board.....	1156444
Power Amplifier Board.....	1165711
Correction Amplifier Board.....	1165714
8 Section Bias Protection Board	1586-3109
Dual Output Power Supply (DC/DC Converter) Board.....	ADC-DC380-1012

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Interconnect, Power Supply Assembly.....1113841

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Front Panel LED Board.....	1113710

Power Supply/Power Amplifier Chassis:

Power Supply/Power Amplifier Backplane Board 1121681

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Interconnect, Upconverter Assembly1152963

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Block Diagram, Multiplexer Assembly.....1090775

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Block Diagram, Upstream/Downstream Switch Assembly 1144128

Interconnect, Upstream/Downstream Switch Assembly..... 1126654

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Upstream/Downstream Control Board1125362

Dual SP4T RF Switch Board1125367

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Upper RF Signal Processing Backplane Board..... 1149605

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Lower RF Signal Processing Backplane Board 1149606

10 MHz Frequency Reference Assembly:

Block Diagram, 10 MHz Frequency Reference Assembly 1129658

Interconnect, 10 MHz Frequency Reference Assembly 1129669

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10MHz Reference Generator Board 1519-3126

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Automatic Back-up System (ABS) Controller Assembly:

The ABS Controller Assembly contains the following boards/modules:

ABS Controller Board1132142

System Monitoring Assembly:

Block Diagram, System Monitoring Assembly 1156006

Interconnect, System Monitoring Assembly 1156005

The System Monitoring Assembly contains the following boards/modules:

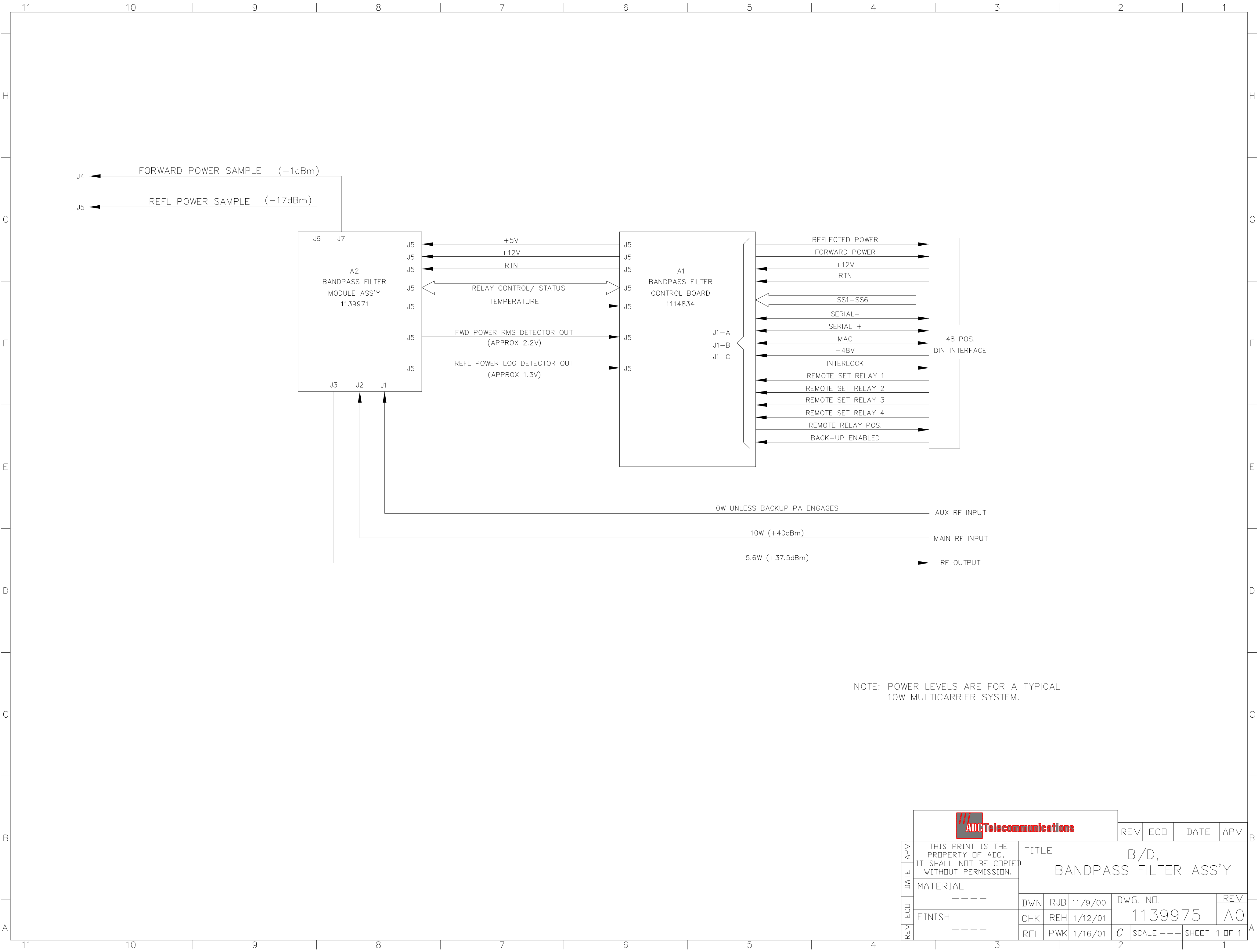
LCD Backplane Interface Board1116295

Front Panel LED Board1113710

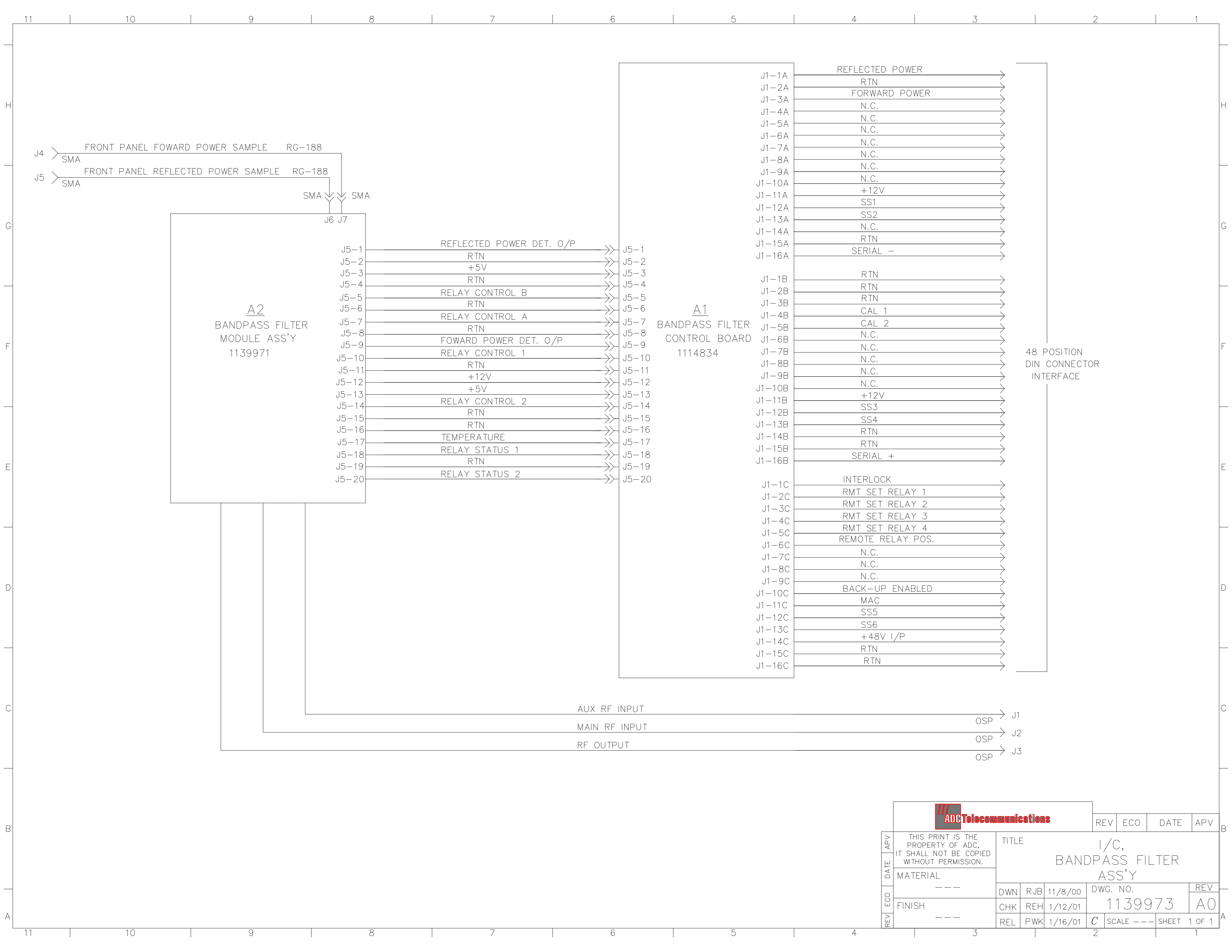
Switch Board 1527-3406

Control Chassis:

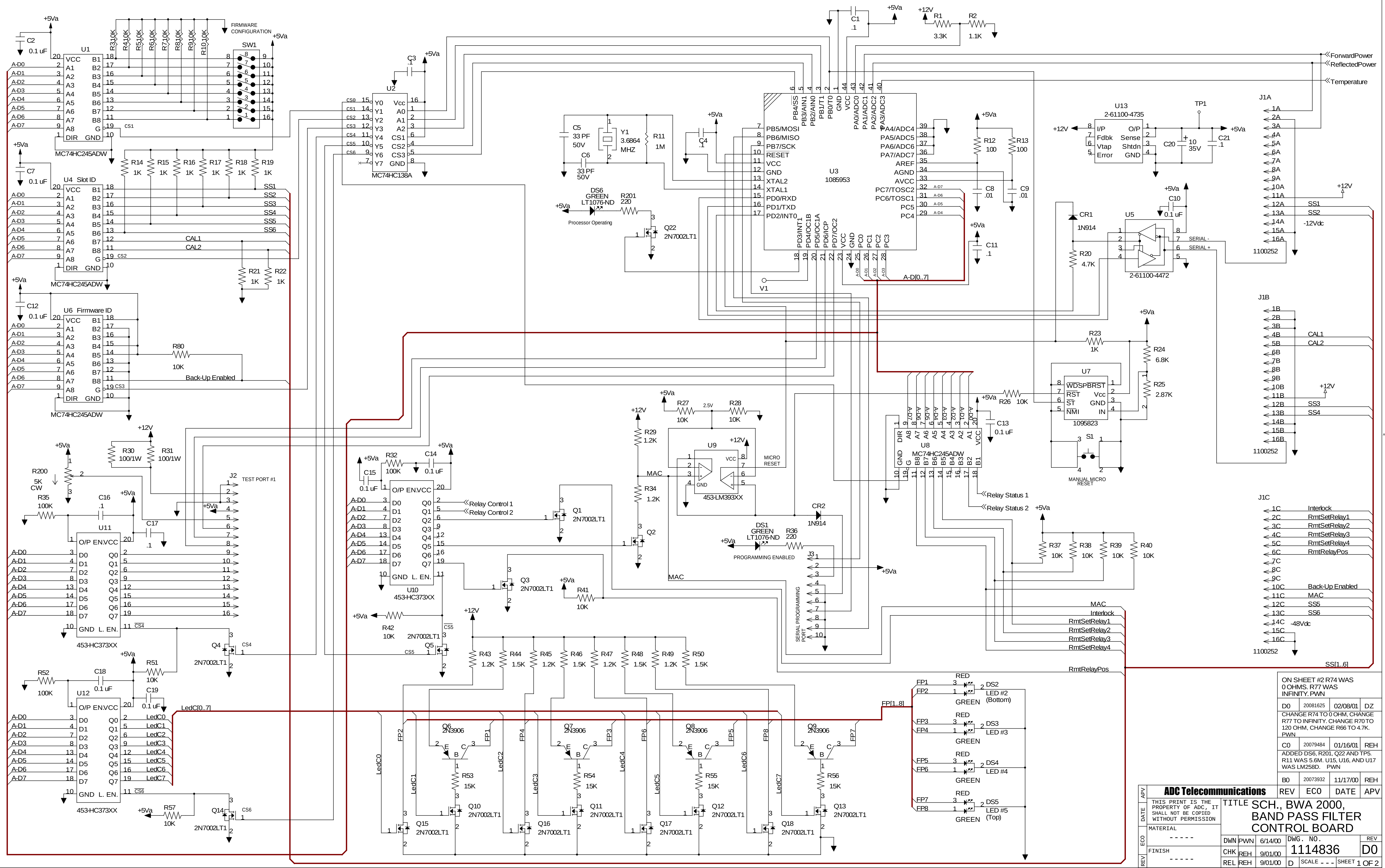
Control Chassis Backplane Board 1119953



				REV				ECD	DATE	APV	B
APV	THIS PRINT IS THE PROPERTY OF ADC, IT SHALL NOT BE COPIED WITHOUT PERMISSION.			TITLE B/D, BANDPASS FILTER ASS'Y							
DATE	MATERIAL -----			DWG. NO. 1139975							REV A0
ECD	FINISH -----			DWN	RJB	11/9/00					
REV				CHK	REH	1/12/01					
				REL	PWK	1/16/01	C	SCALE	----	SHEET 1 OF 1	A
3				2				1			

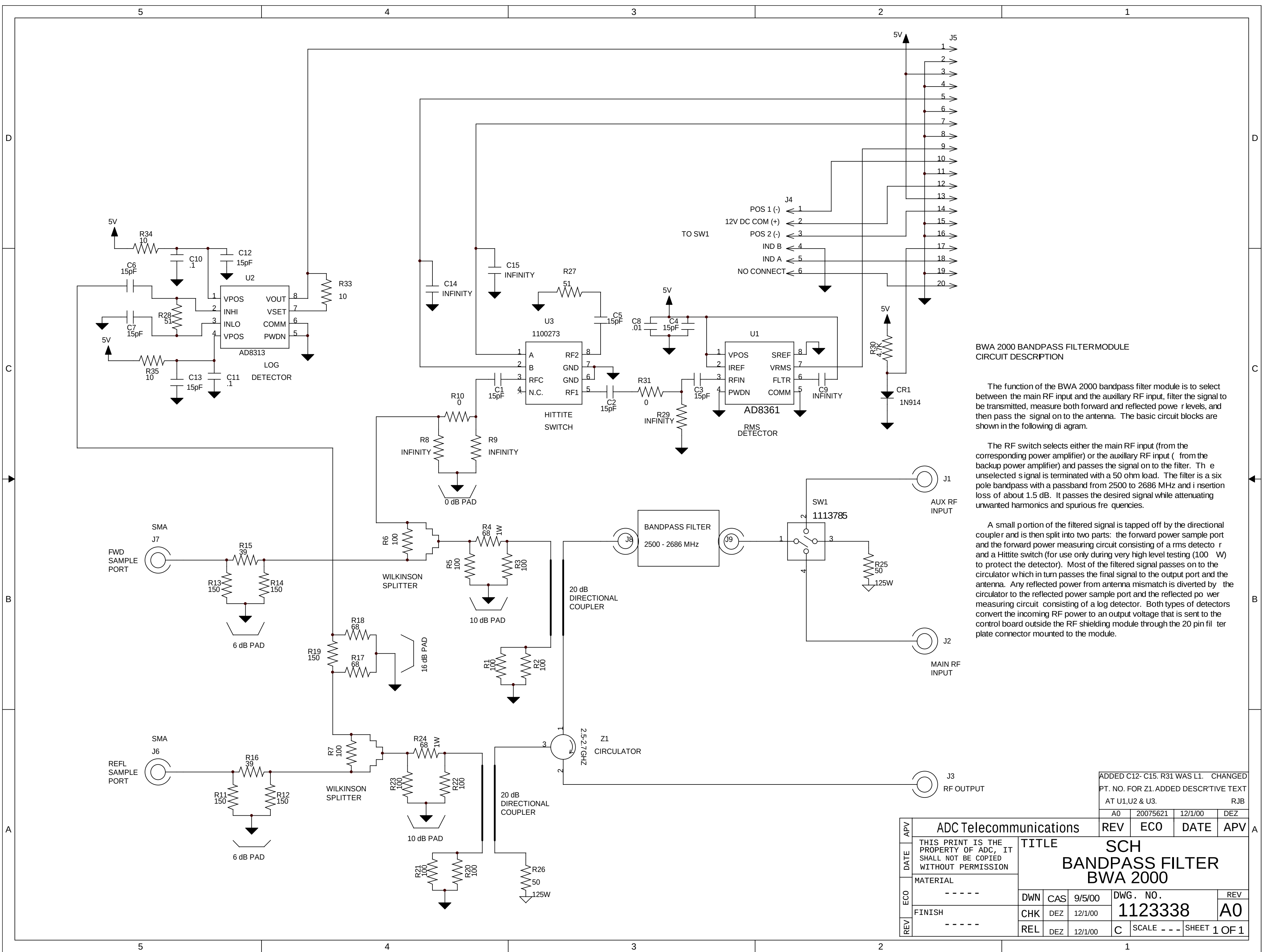


				REV		ECO	DATE		APV
ADC Telecommunications									
APV	THIS PRINT IS THE PROPERTY OF ADC, IT SHALL NOT BE COPIED WITHOUT PERMISSION.			TITLE					
DATE	MATERIAL			I/C, BANDPASS FILTER ASS'Y					
	---			DWN	RJB	11/8/00	DWG. NO.		REV
ECO	FINISH			CHK	REH	1/12/01	1139973		A0
REV	---			REL	PWK	1/16/01	C	SCALE ---	SHEET 1 OF 1
3				2				1	



APV	ADC Telecommunications				REV	ECO	DATE	APV
DATE	THIS PRINT IS THE PROPERTY OF ADC, IT SHALL NOT BE COPIED WITHOUT PERMISSION		TITLE SCH., BWA 2000, BAND PASS FILTER CONTROL BOARD					
ECO	MATERIAL							
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	-----		CHK	REH	9/01/00	1114836		D0
			REL	REH	9/01/00	D	SCALE ---	SHEET 1 OF 2





BWA 2000 BANDPASS FILTERMODULE
CIRCUIT DESCRIPTION

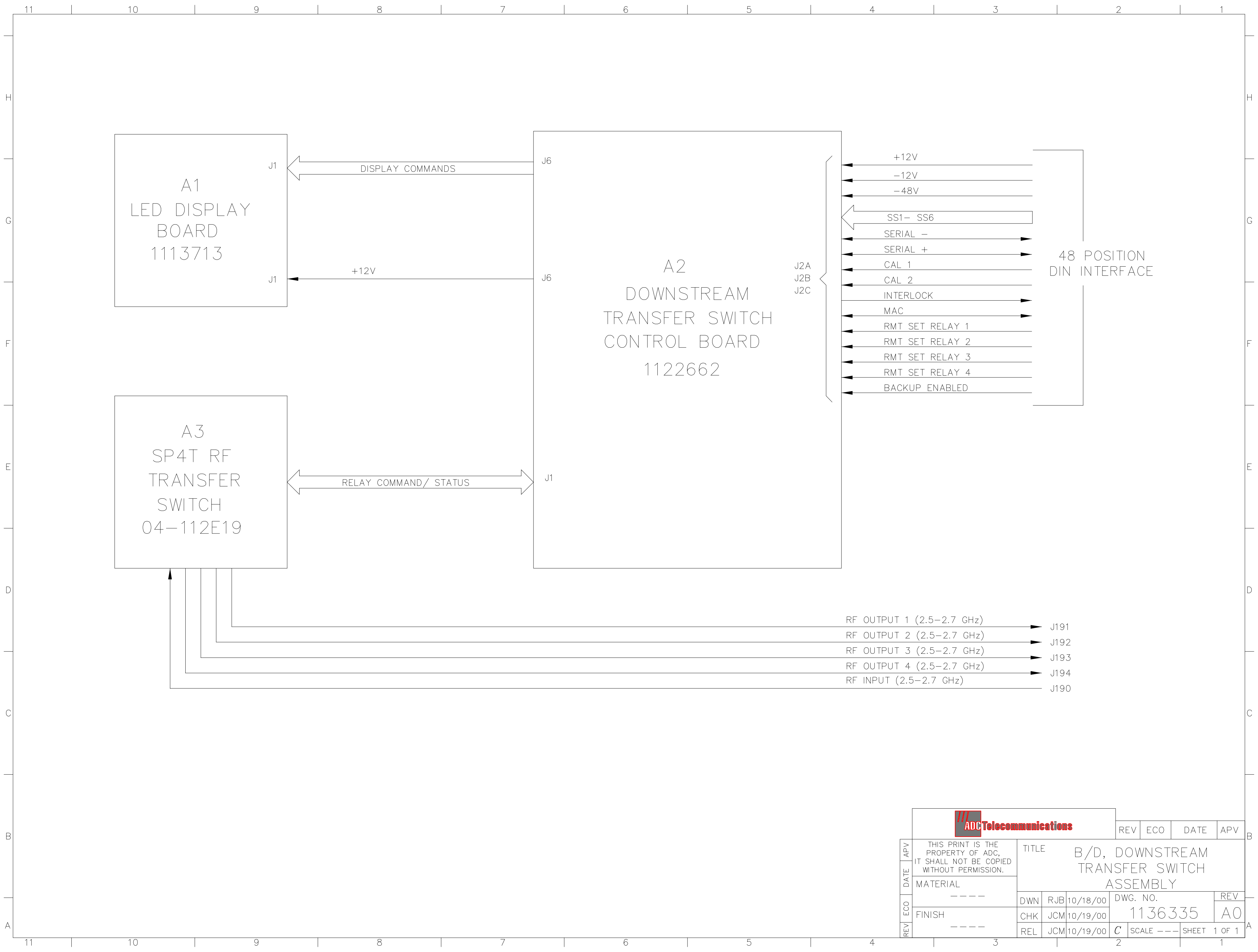
The function of the BWA 2000 bandpass filter module is to select between the main RF input and the auxiliary RF input, filter the signal to be transmitted, measure both forward and reflected power levels, and then pass the signal on to the antenna. The basic circuit blocks are shown in the following diagram.

The RF switch selects either the main RF input (from the corresponding power amplifier) or the auxiliary RF input (from the backup power amplifier) and passes the signal on to the filter. The unselected signal is terminated with a 50 ohm load. The filter is a six pole bandpass with a passband from 2500 to 2686 MHz and insertion loss of about 1.5 dB. It passes the desired signal while attenuating unwanted harmonics and spurious frequencies.

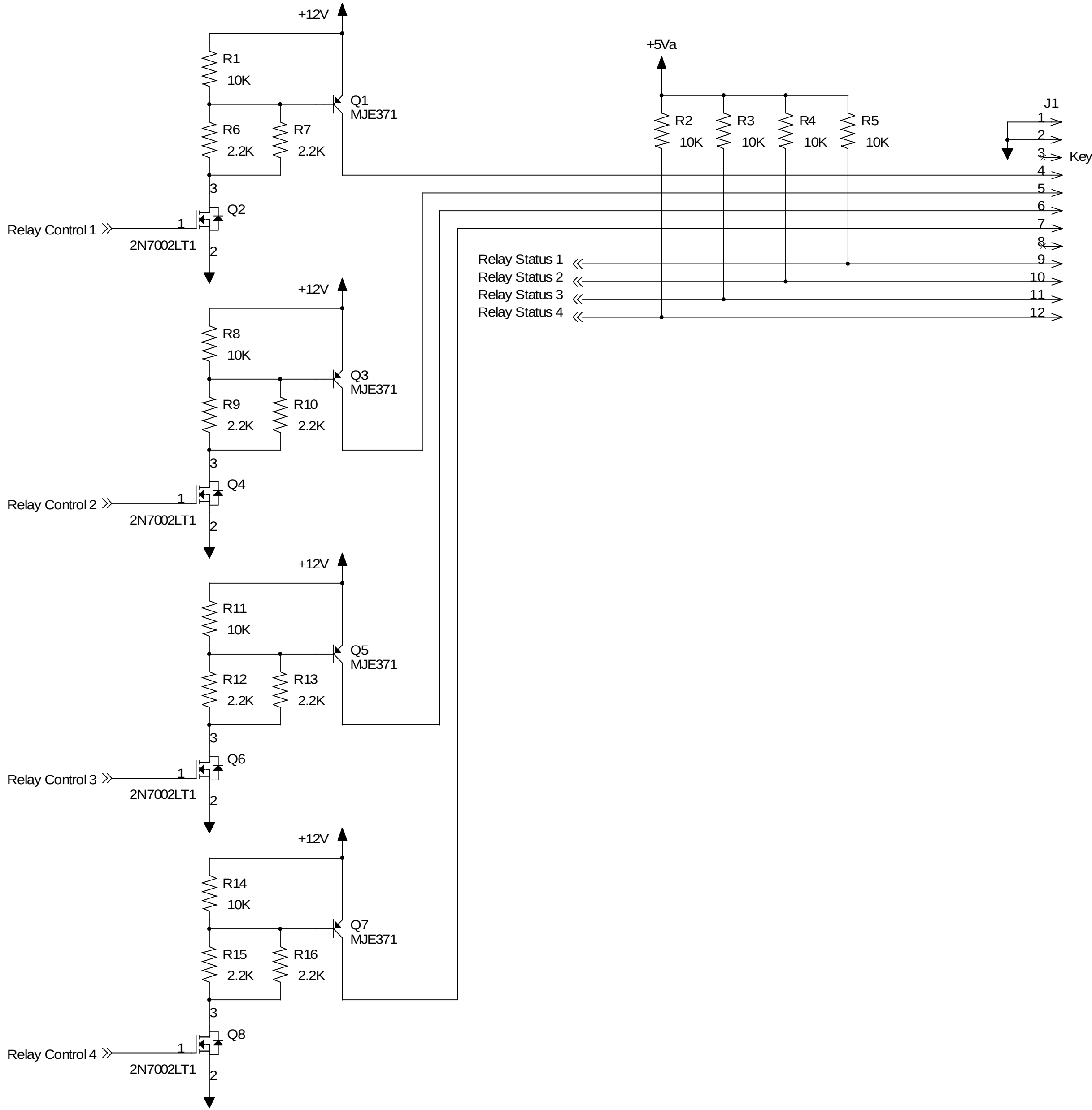
A small portion of the filtered signal is tapped off by the directional coupler and is then split into two parts: the forward power sample port and the forward power measuring circuit consisting of a rms detector and a Hittite switch (for use only during very high level testing (100 W) to protect the detector). Most of the filtered signal passes on to the circulator which in turn passes the final signal to the output port and the antenna. Any reflected power from antenna mismatch is diverted by the circulator to the reflected power sample port and the reflected power measuring circuit consisting of a log detector. Both types of detectors convert the incoming RF power to an output voltage that is sent to the control board outside the RF shielding module through the 20 pin filter plate connector mounted to the module.

ADDED C12- C15. R31 WAS L1. CHANGED
PT. NO. FOR Z1. ADDED DESCRIPTIVE TEXT
AT U1,U2 & U3. RJB

APV	ADC Telecommunications			REV	ECO	DATE	APV
DATE	THIS PRINT IS THE PROPERTY OF ADC, IT SHALL NOT BE COPIED WITHOUT PERMISSION			TITLE SCH BANDPASS FILTER BWA 2000			
ECO	MATERIAL -----			DWN	CAS	9/5/00	DWG. NO. 1123338
REV	FINISH -----			CHK	DEZ	12/1/00	REV A0
				REL	DEZ	12/1/00	C SCALE --- SHEET 1 OF 1



				 ADC Telecommunications		REV		ECO	DATE		APV								
APV	THIS PRINT IS THE PROPERTY OF ADC. IT SHALL NOT BE COPIED WITHOUT PERMISSION.				TITLE B/D, DOWNSTREAM TRANSFER SWITCH ASSEMBLY														
DATE	MATERIAL -----																		
ECO	FINISH -----				DWN		RJB		10/18/00		DWG. NO. 1136335		REV A0						
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					3					2					1				



APV	ADC Telecommunications				REV	ECO	DATE	APV
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ECO					DWN	PWN	8/16/00	DWG. NO.
REV					CHK	REH	8/16/00	1121614
					REL	REH	8/16/00	B0
							SCALE - - -	SHEET 2 OF 3

TYPE O: SP3T-SP6T up to 12.4 GHz



Standard Connectors:

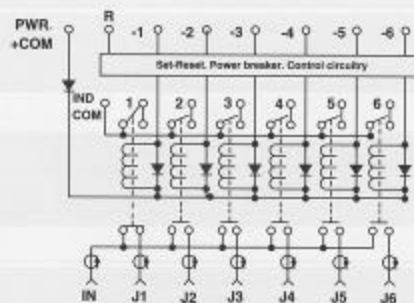
BNC, TNC, N

Specifications (TNC, N only):

Operating Frequency	DC-3 GHz	3-8 GHz	8-12.4 GHz
V.S.W.R. (maximum)	1.2:1	1.35:1	1.5:1
Insertion loss (max.)	0.2 dB	0.35 dB	0.5 dB
Isolation (minimum)	80 dB	70 dB	60 dB
Actuating voltage	24-30 Vdc (28 Vdc nominal)		
Actuating current	160 milliamps maximum at 28 Vdc and 72°		
Impedance	50 ohms		
Switching Time	35 milliseconds maximum		
R.F. Power	See Power Chart Page 1 • 12		
Operating Mode	Fail-safe		
Operating Temp.	-35°C to +85°C		
Operating Life	1,000,000 cycles		
Environmental	Designed to meet MIL-E-5400 and MIL-S-3928		
Finish	Switch Body & Connector Shell	Aluminum, electroless nickel plated per MIL-C-26074	
	Connector Contact	Beryllium copper, gold plated per MIL-G-45204	
	Cover	Aluminum, Black	

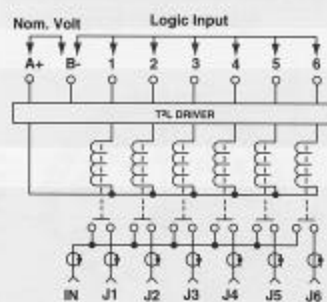
SCHEMATICS

Latching



Latching with self de-energizing ckt, reset function, indicators and suppression diodes. Shown in Position 1. (Common Plus)

Normally Open



Normally open with TTL driver.



TYPE O: SP3T-SP6T up to 12.4 GHz

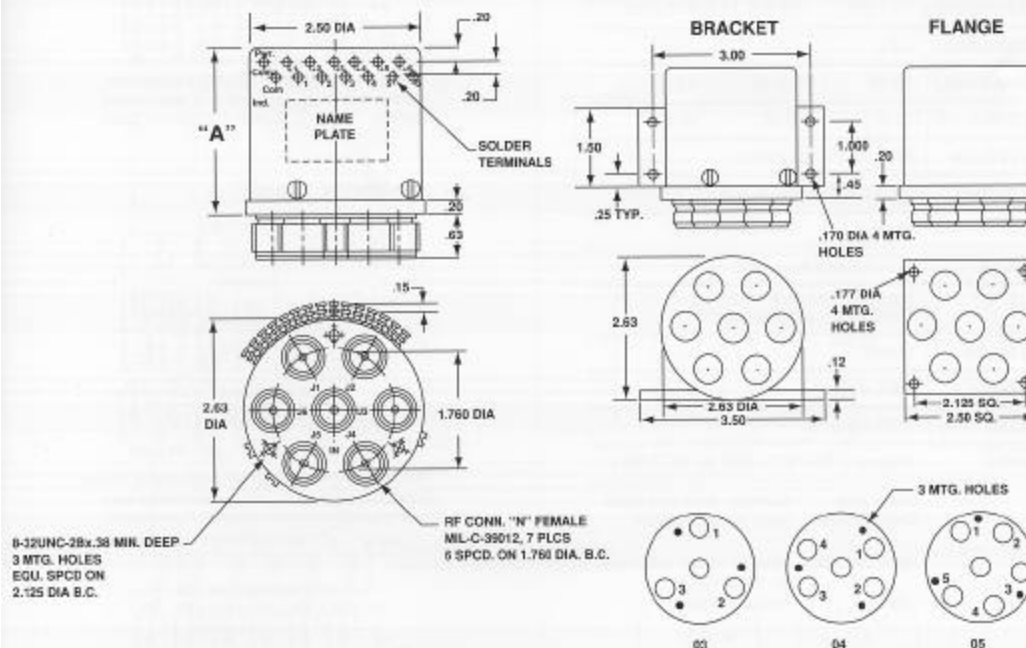
AVAILABLE OPTIONS

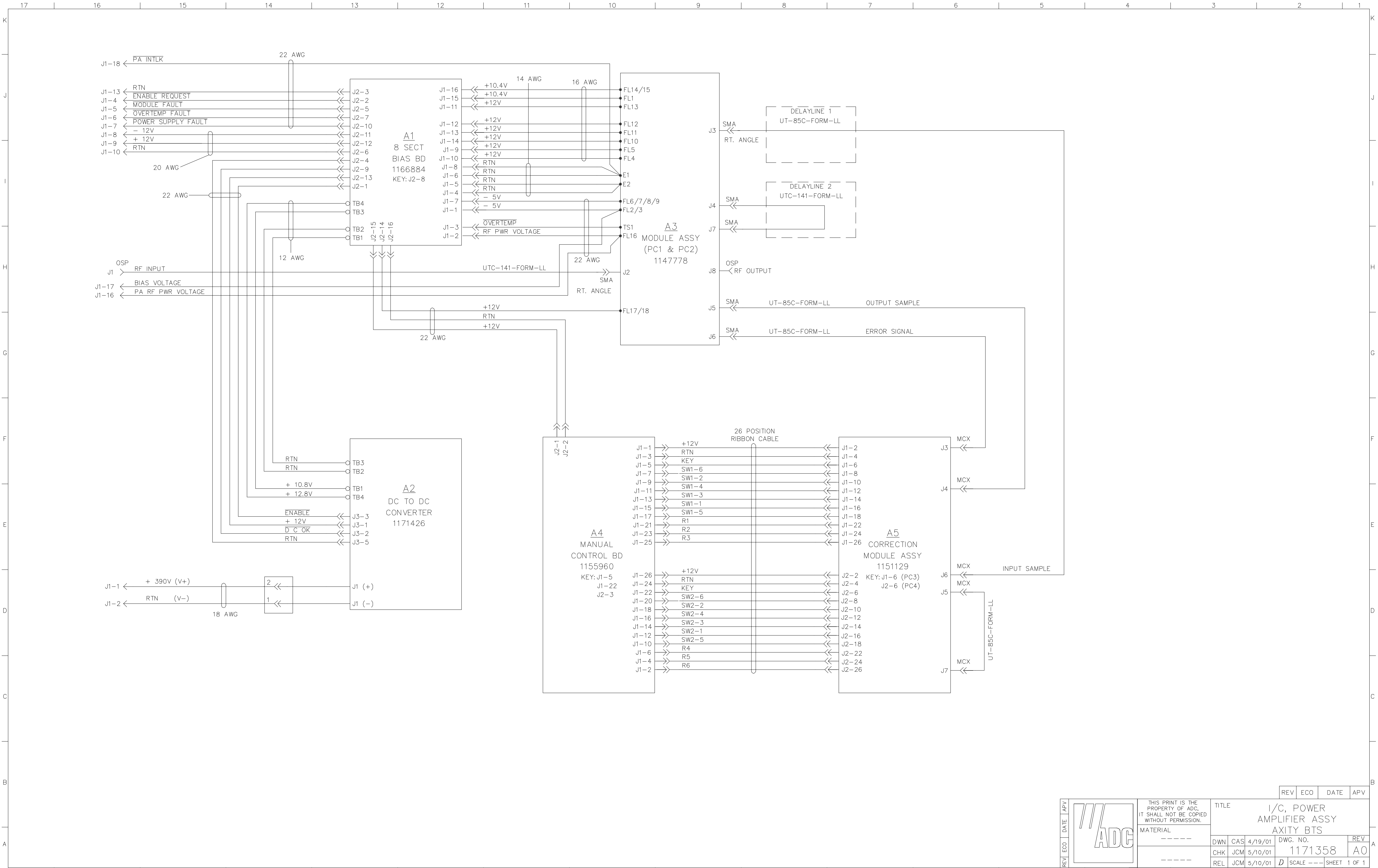
Special Options	Circuit Options	Outline Dim "A"
P and F or 1	C, J, K, N, R	1.97
P and F or 1 w/L	C, D, E, F, G, H, J, K, N, R, S	2.47
P and F or 1 w/LL	J, K, N, R	2.88
P and F or 1 w/LL	C, D, E, F, G, H, S	3.20

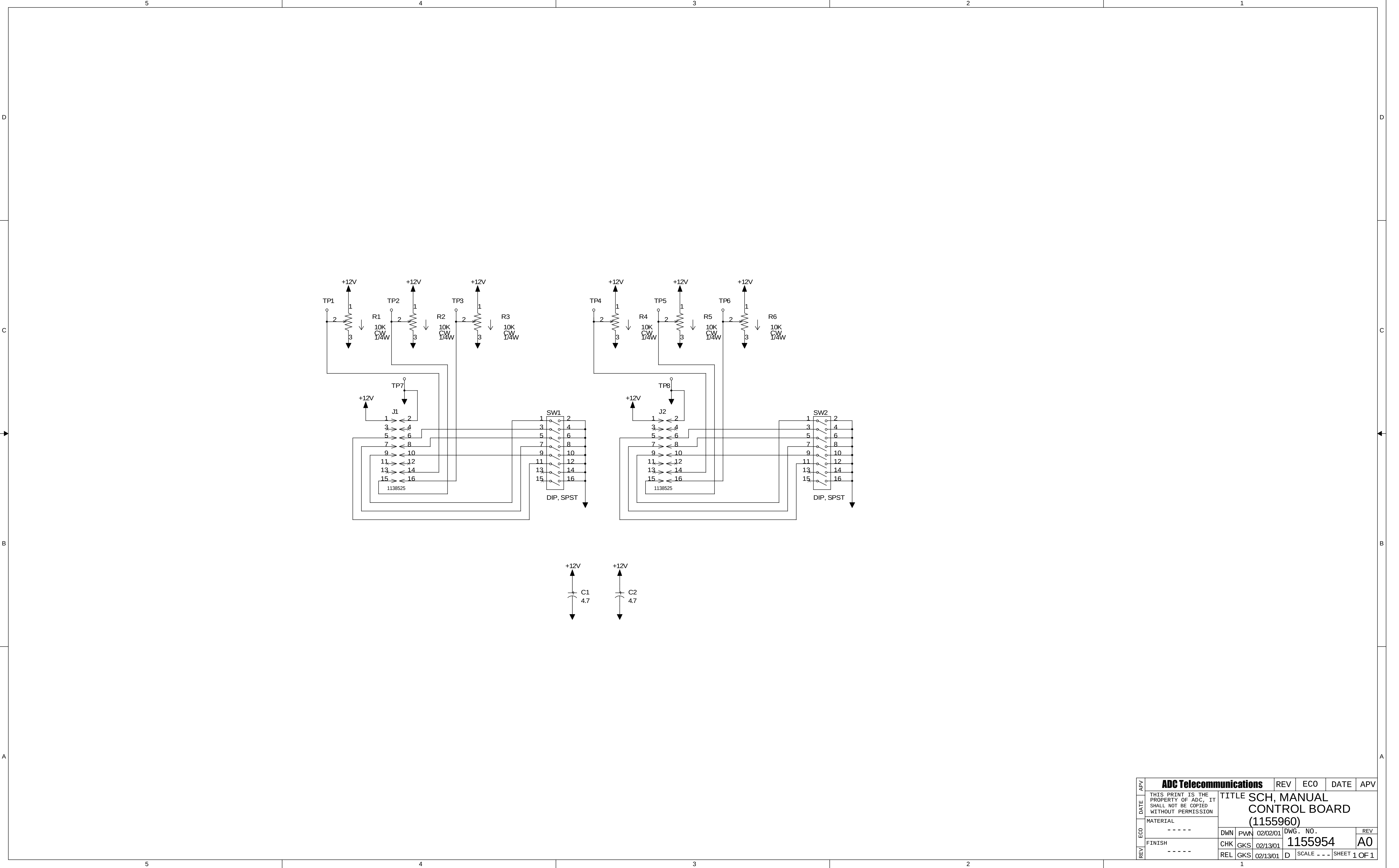
POWER CONNECTOR: Connector PN MS3112E14-15P, mates with MS3116F14-15S. Consult factory for Dim. "A"

TYPICAL OUTLINE DRAWING

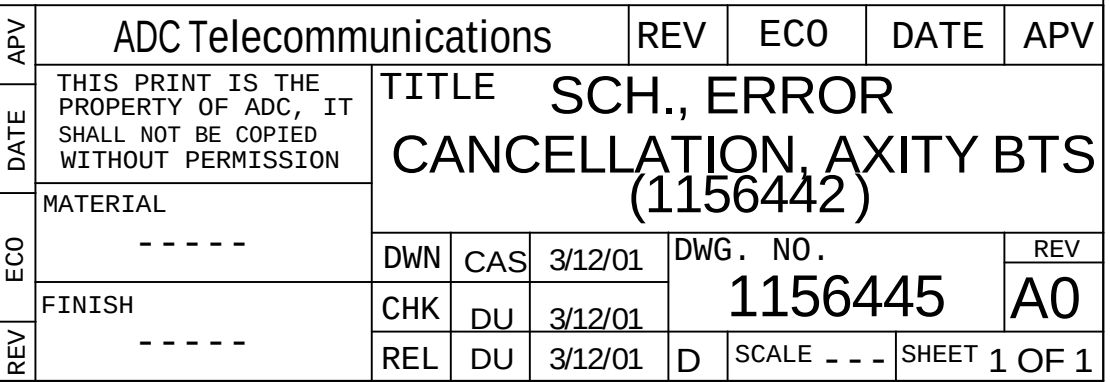
TYPICAL OUTLINE DRAWING

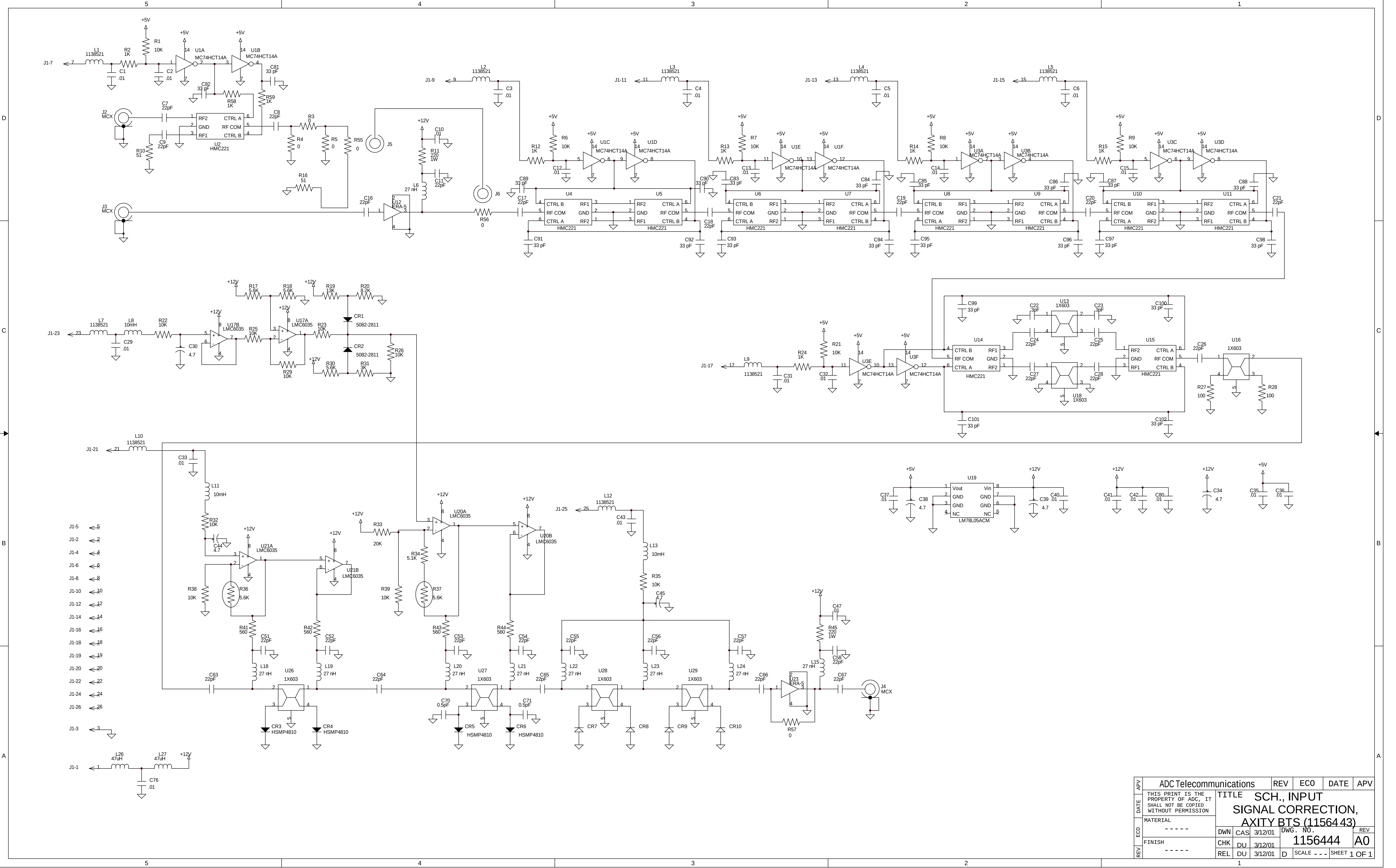




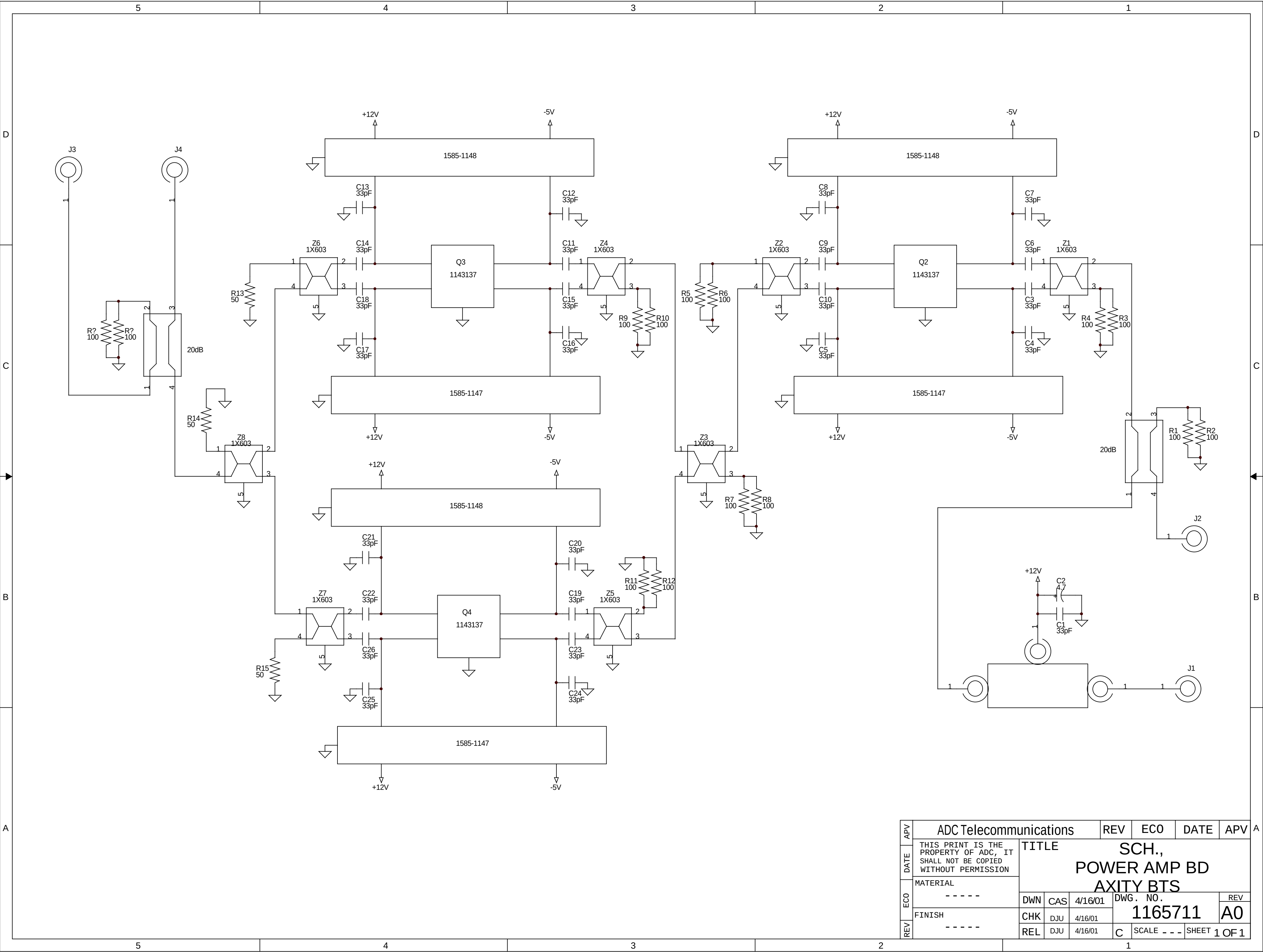


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REV								
ECO	MATERIAL				DWN	PWN	02/02/01	DWG. NO.
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							SHEET	1 OF 1

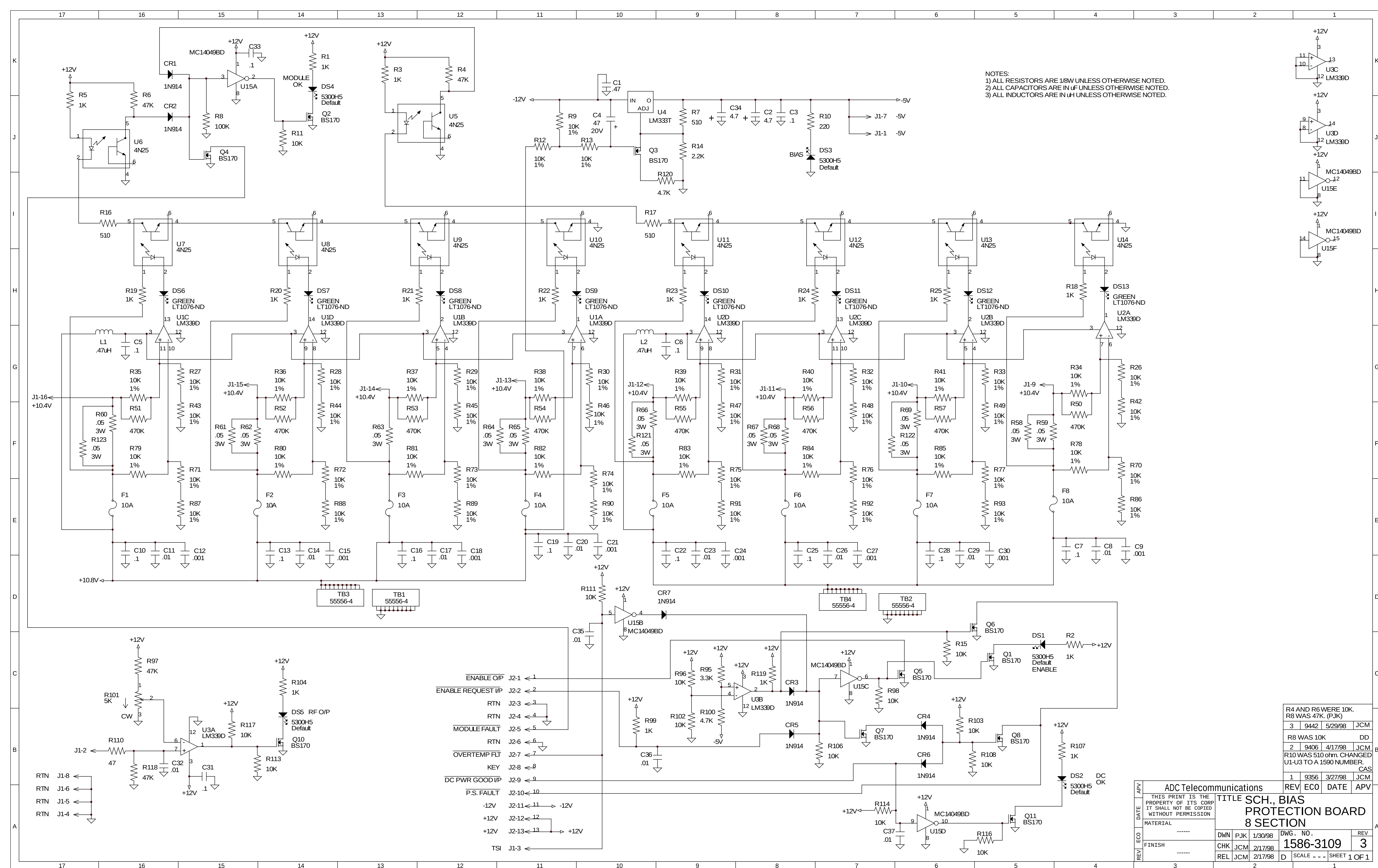


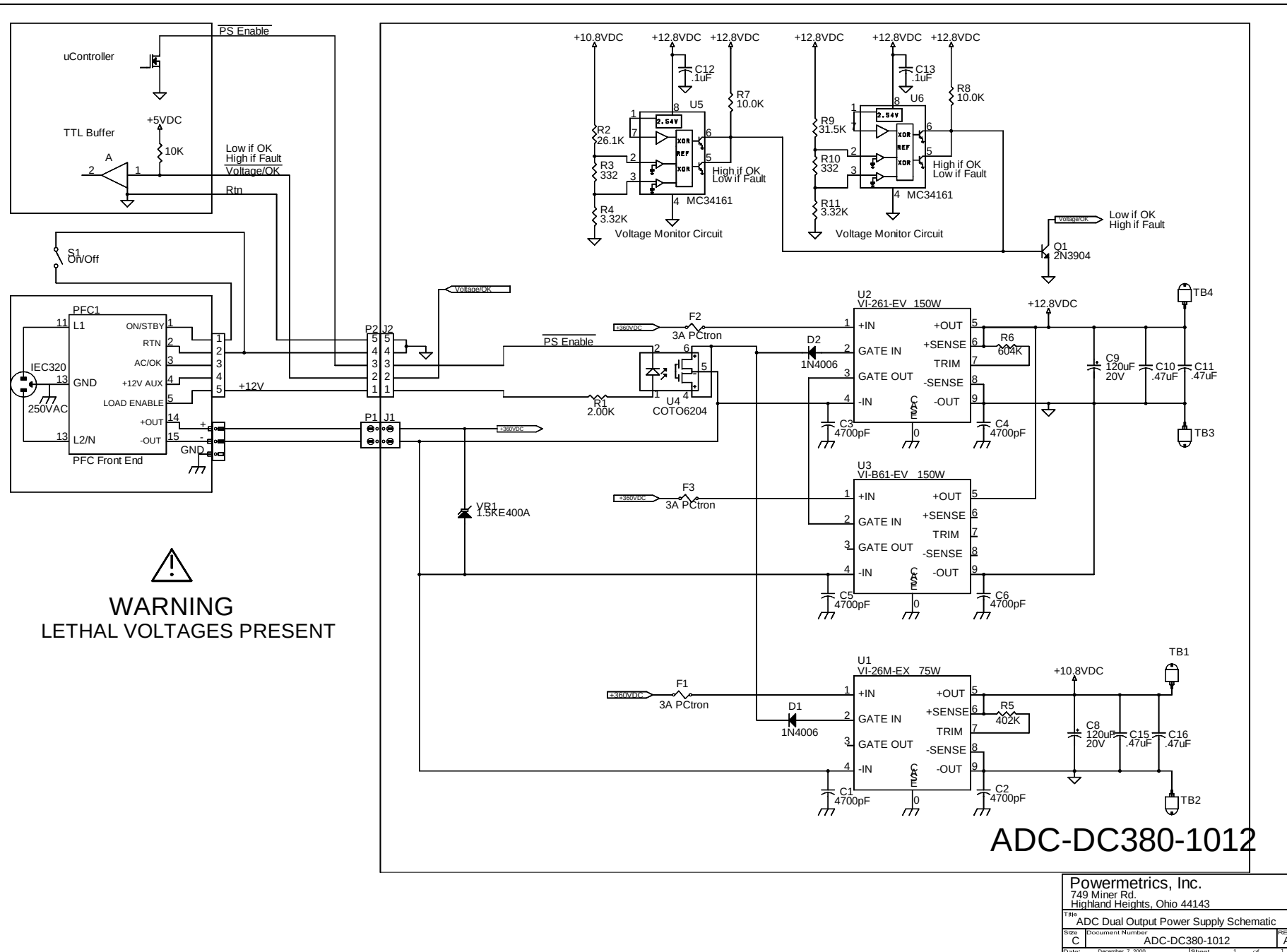


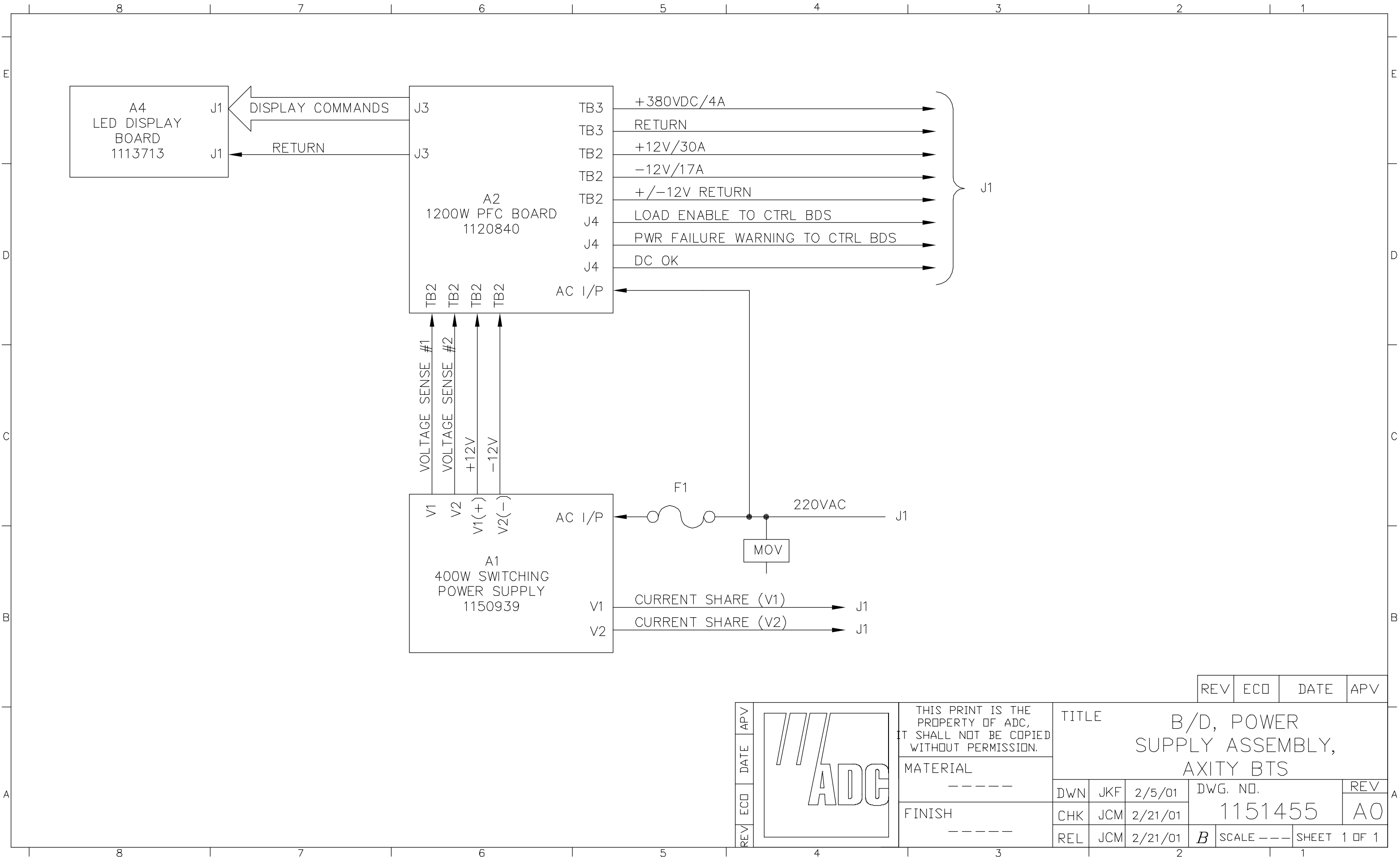
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ECO	MATERIAL		DWN	CAS	3/12/01	DWG. NO. 1156444
REV	FINISH		CHK	DU	3/12/01	A0
			REL	DU	3/12/01	SCALE - - - SHEET 1 OF 1



APV	ADC Telecommunications				REV	ECO	DATE	APV
DATE	THIS PRINT IS THE PROPERTY OF ADC, IT SHALL NOT BE COPIED WITHOUT PERMISSION				TITLE SCH., POWER AMP BD AXITY BTS			
ECO								
REV	FINISH				DWN	CAS	4/16/01	DWG. NO.
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					REL	DJU	4/16/01	C
								SCALE - - -
								SHEET 1 OF 1

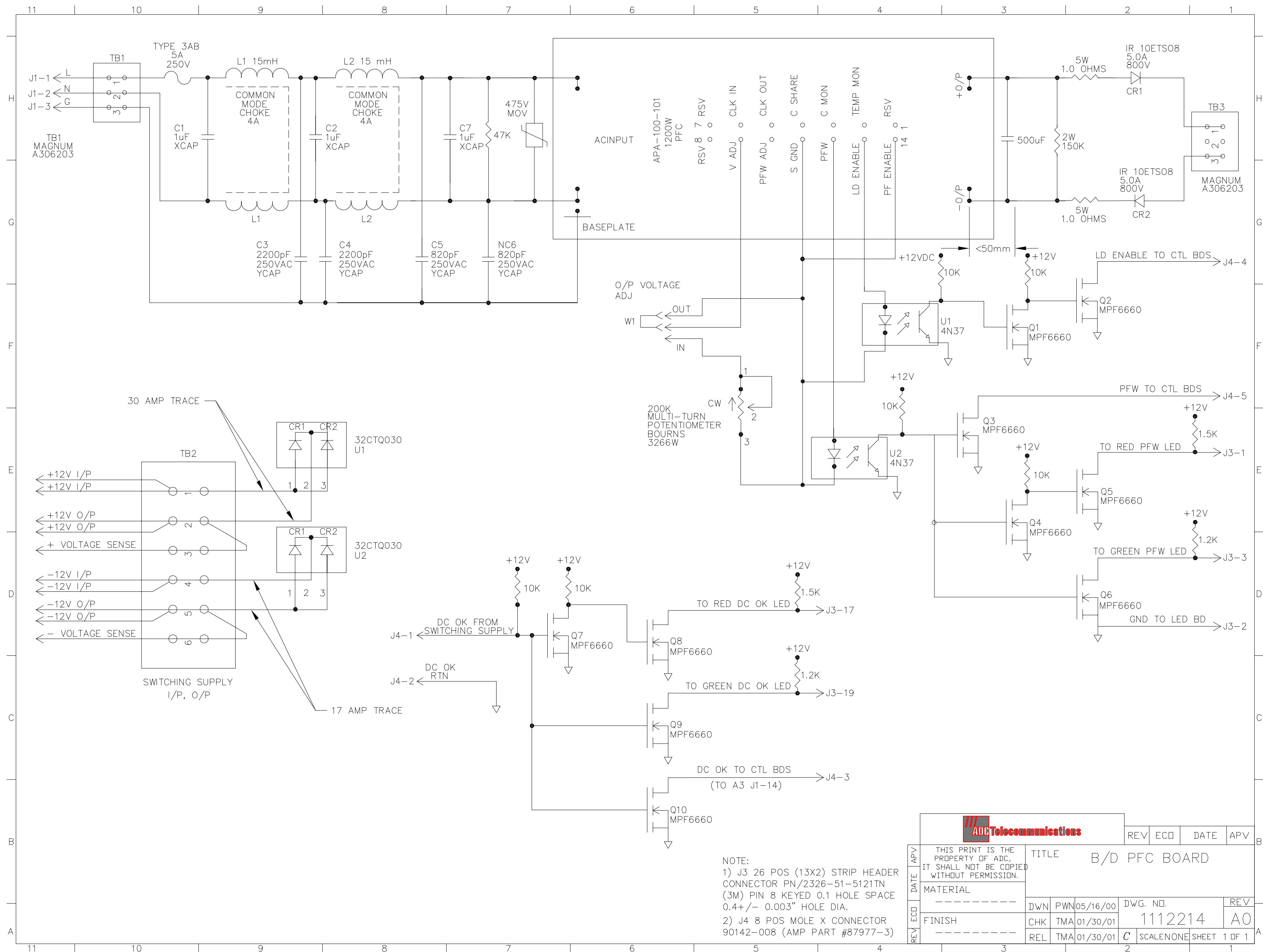






REV	ECD	DATE	APV
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DATE		MATERIAL -----										DWN
ECD		FINISH -----					CHK	JCM	2/21/01	SCALE ---		SHEET 1 OF 1
REV							REL	JCM	2/21/01	B		



ASA
4/F, China Dyeing Works Building
382-382 Castle Peak Road
Tuen Mun, N.T., Hong Kong
Telephone: 852-2437-8682
Facsimile: 852-2432-4425

EUROPE
Astec House, Waterfront Business Park
Merry Hill, Dudley
West Midlands, DY5 1LX, UK
Telephone: 01364-842211
Facsimile: 01364-843355

AMERICAS
5810 Van Allen Way
Chattanooga, TN 37408
Telephone: 760-850-4600
Facsimile: 760-930-0938

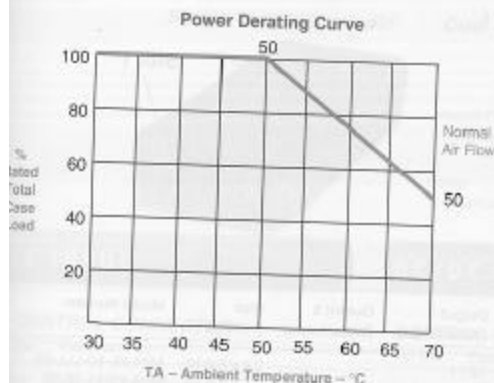


MEDIUM POWER

ELECTRICAL SPECIFICATIONS

Input

Input voltage	85-264 VAC
	120-350 VDC
Frequency	47-440 Hz
Inrush current	40 A peak max.
Efficiency	70-80% typ. @ full case load
Power factor	0.99 typ. meets EN61000-3-2
Turn-on time	AC on 1.5 sec typ. Inhibit / Enable 150 ms typ.
EMI filter standard	CISPR 22 EN55022 Level "B"
EMI filter (low leakage option)	CISPR 22 EN55022 Level "A"
Leakage current standard	2.0 mA max. @ 240 VAC
Leakage current (low leakage option)	300 μ A max. @ 240 VAC
Radiated EMI	CISPR 22 EN55022 Level "B"
Holdover storage	20 ms minimum (independent of input VAC)
AC OK	>5 ms early warning min. before outputs loose regulation Full cycle ride thru (50 Hz)
Harmonic distortion	Meets EN61000-3-2
Isolation	Meets EN60950
Global Inhibit/Enable	TTL, Logic "1" and Logic "0"
Input fuse (internal)	MP4: 10 A MP6: 15 A MP8: 20 A MP1: 20 A
Warranty	1 year



Output

Adjustment range	$\pm 10\%$ min. all outputs
Margining	$\pm 4-6\%$ nom. ¹
Overall reg.	0.4% or 20 mV max. (36 W modules 4% max.)
Ripple	RMS: 0.1% or 10 mV, whichever is greater Pk-Pk: 1.0% or 50 mV, whichever is greater Bandwidth limited to 20 MHz
Dynamic response	<2% or 100 mV, with 25% load step.
Recovery time	To within 1% in <300 μ sec.
Overcurrent protection	Single, main of dual output module 105-120% of rated output current. Aux output of dual output module 105-140% of rated output current. Triple output module internally protected
Short circuit protection	Protected for continuous short circuit. Recovery is automatic upon removal of short
Overvoltage protection (measured at sense connection)	Single output modules 2-5.5 V 122-134% 6-60 V 110-120% Dual output module 2-6 V 122-134% 8-28 V 110-120% Triple output module. No overvoltage protection provided. Recycle the AC input voltage to reset OVP circuit
Reverse voltage protection	100% of rated output current
Thermal protection	All outputs disabled when internal temp exceeds safe operating range. >5 ms warning (AC OK signal) before shutdown
Remote sense	Up to 0.5 V total drop
Single wire parallel	Current share to within 2% of total rated current ²
DC OK	>2% to -8% of nominal for any monitored output ²
Minimum load	Not required on single or triple output modules. 10% required on main of dual output modules ³
Housekeeping	
Bias voltage	5 VDC @250 mA max. present whenever AC input is applied (Consult factory if higher output current required)
Module inhibit	TTL, isolated, singles and dual (both outputs) only
Switching frequency	250 kHz
Output/Output isolation	>1 Megohm
VME signal option board	POR signal

Notes:
1 Single output modules only.
2 Single and main of dual output modules only.
3 Contact factory for optional preload if required.

REV 12.05.99

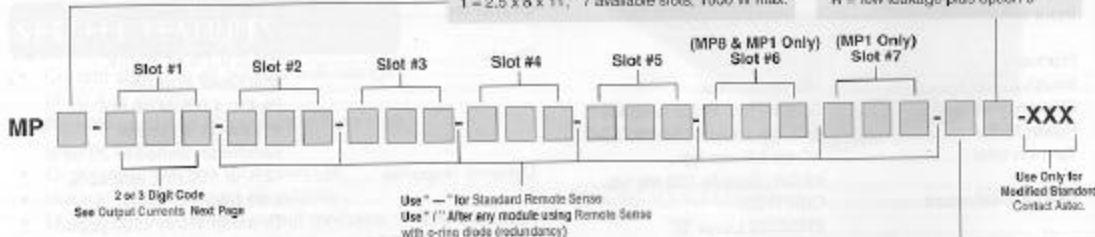
www.astec.com

69

Common Examples and Specifications

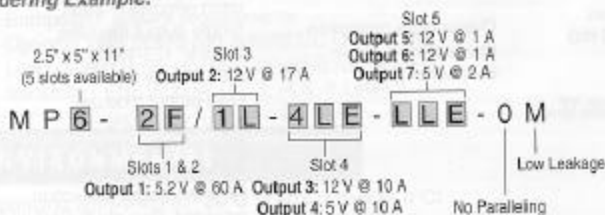
Case Size (inches):
 4 = 2.5 x 5 x 10, 5 available slots, 400 W max.
 6 = 2.5 x 5 x 11, 5 available slots, 600 W max.
 8 = 2.5 x 7 x 10, 6 available slots, 800 W max.
 1 = 2.5 x 8 x 11, 7 available slots, 1000 W max.

Option Code:
 0 = no options
 1 = rear air exhaust
 3 = global enable
 5 = option package (options 1 & 3)
 M = low leakage
 N = low leakage plus option 1
 P = low leakage plus option 3
 R = low leakage plus option 5



- Notes:**
- Omit digits that do not apply.
 - Specify modules from lowest number of outputs to highest (Single/Dual/Triple).
 - If number of outputs are equal, specify modules from highest to lowest power increments. If power increments are equal, specify in descending alphabetical order (A, B, C...).
 - Always start with Slot 1.
 - All MVP model configurations created using this selection guide are standard MVP products with standard availability and lead times.

Ordering Example:



Parallel Code:

MP4 & MP6 available slots		Slot 5	Slot 4	Slot 3	Slot 2	Slot 1
MP8 available slots		Slot 6	Slot 5	Slot 4	Slot 3	Slot 2
MP1 available slots		Slot 7	Slot 6	Slot 5	Slot 4	Slot 3
Standard Parallel Codes*	7	6	5	4	3	2
0 = no parallel						
1 = 1 & 2						
2 = 2 & 3						
3 = 3 & 4						
4 = 4 & 5						
5 = 5 & 4 & 3						
6 = 6 & 5 & 4						
7 = 4, 5 & 6						
8 = 6 & 7						
9 = 3 & 4, 6 & 7						

*For custom parallel configurations, contact Astec.

COMMON EXAMPLES OF MODEL NUMBERS

SINGLE OUTPUTS

Total Power	Output (Volts/Amps)	Size (inches)	Model Number
360 W	2 / 180	2.5 x 5 x 10	MP4-3A-2A-30
400 W	5 / 80	2.5 x 5 x 10	MP4-3E-00 - 429
600 W	2 / 275	2.5 x 8 x 11	MP6-3A-3A-1A-90
600 W	5 / 120	2.5 x 5 x 11	MP6-3E-00
600 W	48 / 12.5	2.5 x 5 x 11	MP6-3W-00
800 W	5 / 160	2.5 x 7 x 10	MP8-3E-2E-30 - 415
800 W	48 / 16.6	2.5 x 7 x 10	MP8-3W-1W-30
1000 W	5 / 200	2.5 x 8 x 11	MP1-3E-3E-30 - 404

MULTIPLE OUTPUTS

Total Power	Output 1 (Volts/Amps)	Output 2 (Volts/Amps)	Output 3 (Volts/Amps)	Output 4 (Volts/Amps)	Output 5 (Volts/Amps)	Output 6 (Volts/Amps)	Size (inches)	Model Number
400 W	5 / 60	3.3 / 35	12 / 1	12 / 1	12 / 1	—	2.5 x 5 x 10	MP4-2E-1D-LLL-00
400 W	24 / 15	12 / 17	5 / 35	—	—	—	2.5 x 5 x 10	MP4-2Q-1L-1E-00
400 W	5 / 60	12 / 17	12 / 10	5 / 10	—	—	2.5 x 5 x 10	MP4-2E-1L-4LE-00
400 W	5 / 35	12 / 10	3.3 / 10	12 / 1	12 / 1	6 / 2	2.5 x 5 x 10	MP4-1E-4LD-LLE-00
600 W	3 / 60	5 / 60	12 / 10	12 / 4	—	—	2.5 x 5 x 11	MP6-2C-2E-4LL-00
600 W	5 / 120	12 / 17	12 / 10	5 / 10	—	—	2.5 x 5 x 11	MP6-3E-1L-4LE-00
600 W	12 / 30	5 / 35	—	—	—	—	2.5 x 5 x 11	MP6-2L-1E-00
800 W	36 / 16.6	24 / 4	5 / 10	12 / 10	12 / 4	—	2.5 x 7 x 10	MP8-3U-4QE-4LL-00
800 W	5 / 120	3.3 / 35	12 / 17	12 / 10	12 / 4	—	2.5 x 7 x 10	MP8-3E-1D-1L-4LL-00
800 W	15 / 20	5 / 35	15 / 14	24 / 8.5	15 / 8	5 / 10	2.5 x 7 x 10	MP8-2N-1E-1N-1Q-4NE-00
800 W	2 / 180	5 / 60	—	—	—	—	2.5 x 7 x 10	MP8-3A-2A-2E-30
1000 W	3.3 / 120	5 / 120	—	—	—	—	2.5 x 8 x 11	MP1-3D-3E-00



MVP Series

DRAWINGS • MVP SERIES MP4 (400 WATTS MAX) AND MP6 (600 WATTS MAX)

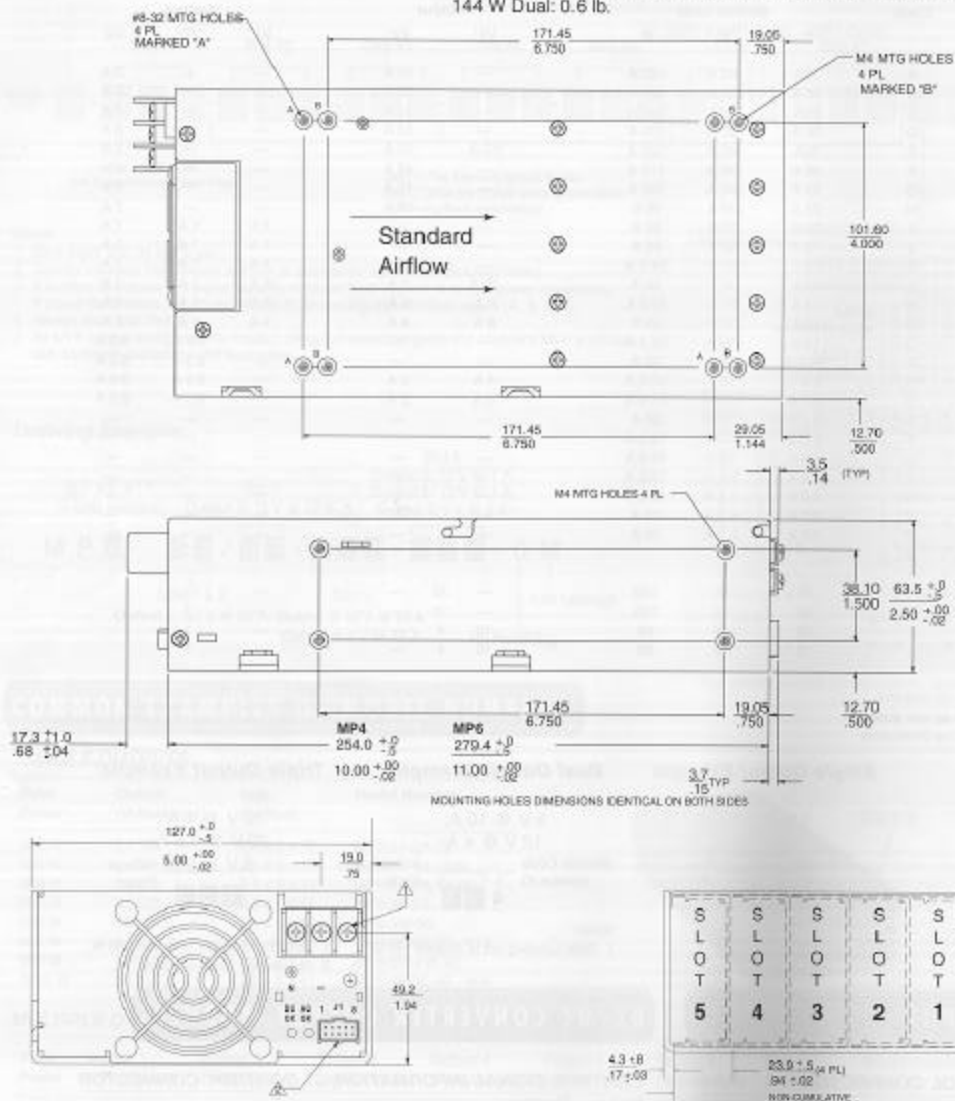
5-Inch Case Size: MP4: 2.5" x 5" x 10" (63.5mm x 127mm x 254mm)

5-Inch Case Size: MP6: 2.5" x 5" x 11" (63.5mm x 127mm x 279.4mm)

Weight: MP4 Case: 2.6 lbs. • MP6 Case: 3.2 lbs. • 36 W Triple: 0.5 lb.

210 W Single: 0.6 lb. • 360 W Single 1.0 lb. • 600 W Single: 2.0 lbs.

144 W Dual: 0.6 lb.



NOTES

1. Input Barrier type. Three No. 6-32 B.H. screws (0.375" centers). Max torque: 6 in.-lbs. (0.67 N-m).
2. Control connectors: (J1 and J2) 10 position housing, gold plated contacts. Mates with Molex 90142-0010 housing with 90119-2110 crimp contacts (Molex C - Grid III Series) or AMP Model number 87977-3 with 87309-8 pins. Connector kit includes mating connector and 10 pins, Astec part #70-841-004.
3. Chassis material: aluminum with chemical film coating. (Conductive)
4. All dimensions are in millimeters and inches and are typical.
5. Customer mounting -3 sides M4, bottom also includes 8-32 mounting holes. Max. penetration is 0.150" (3.8mm). Max. torque: 5in.-lbs.
6. Output module connections: All single O/P modules are M4 x 8mm screws. Max. torque: 10in.-lbs. Dual O/P module is M3 x 8mm screws. Max. torque: 5 in.-lbs. Triple O/P module is .045" square pins on .156" centers. (Mates with Molex 09-50-8063 or equivalent.)

