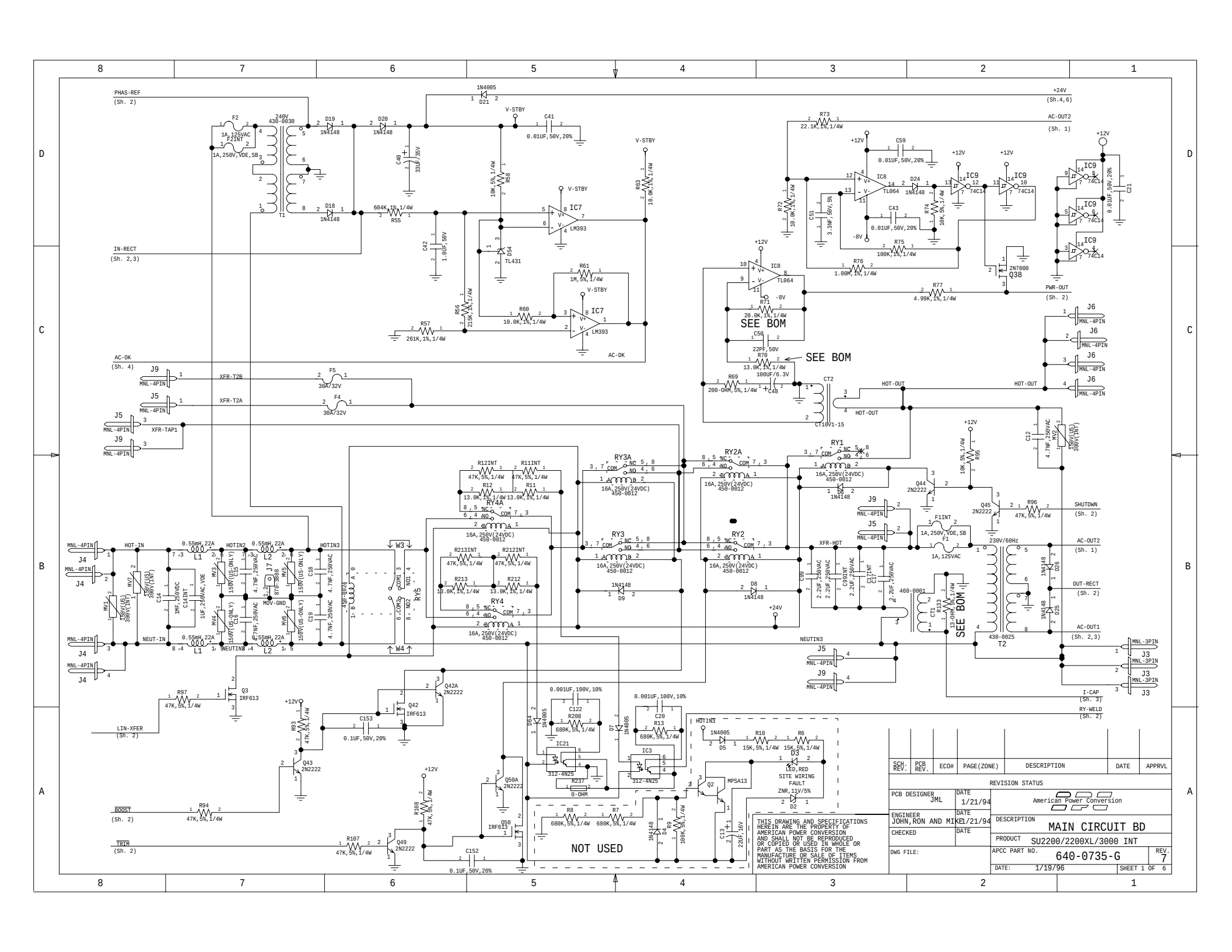
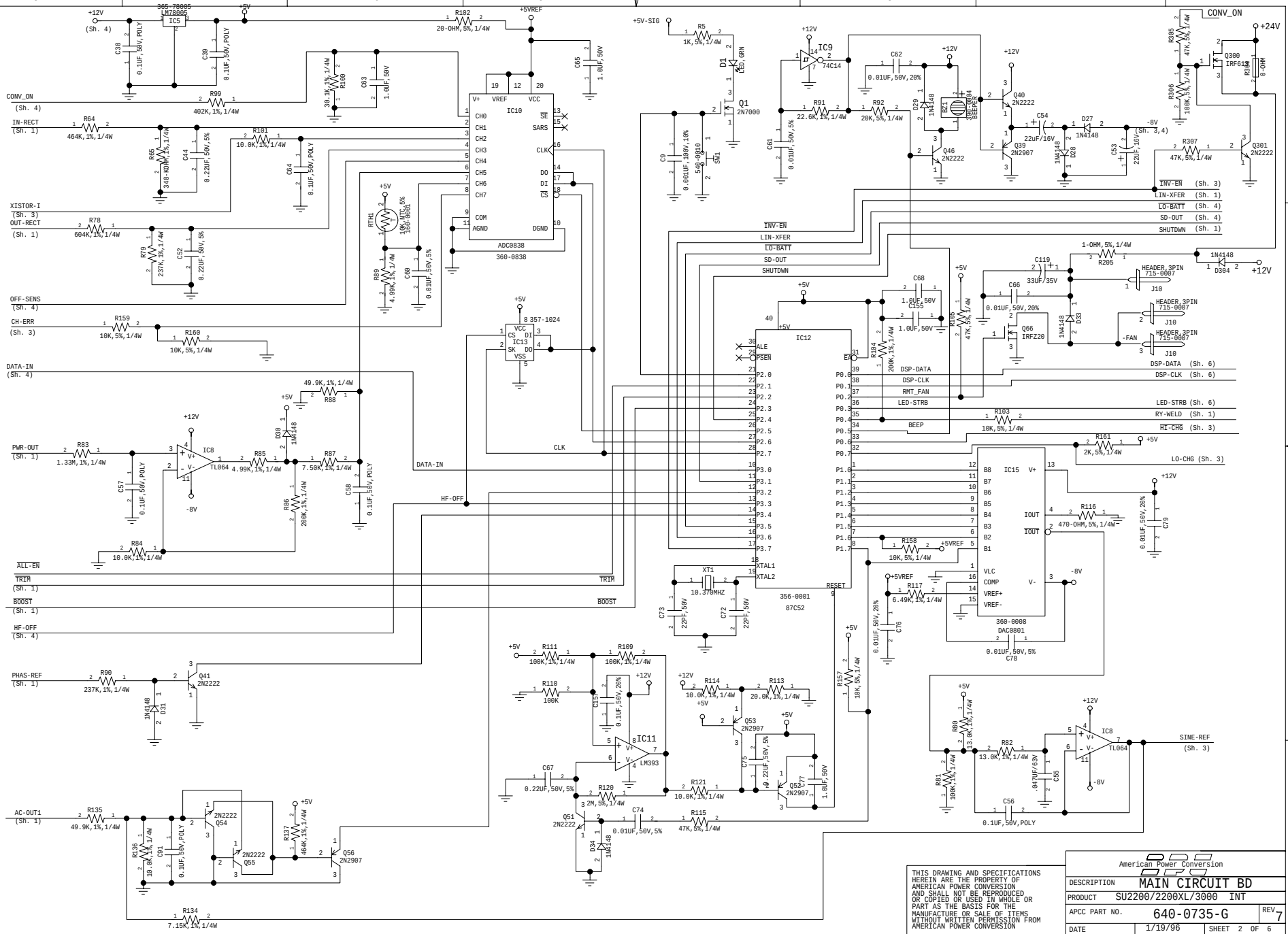
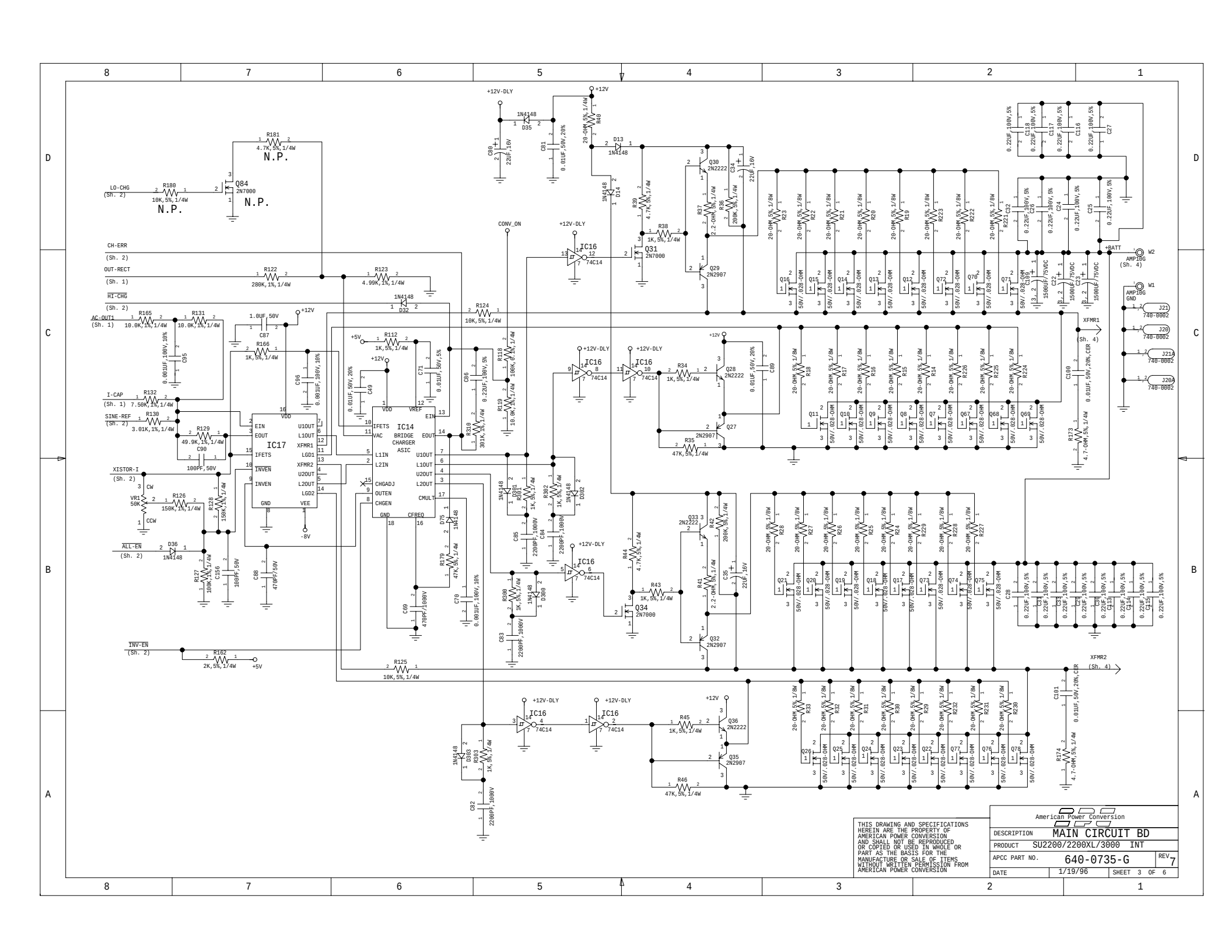

PHAS-REF
(Sh. 2)
1N4005
D21
+24V
(Sh.4,6)
F2
1A,125VAC
F2INT
1A,250V,VDE,SB
240V
430-0030
T1
D19
1N4148
D20
1N4148
D18
1N4148
V-STBY
C41
0.01UF,50V,20%
C40
330UF/35V
604K,1%,1/4W
R55
R58
10K,5%,1/4W
R63
10.0K,1%,1/4W
IC7
LM393
D54
TL431
C42
1.0UF,50V
R61
1M,5%,1/4W
R60
10.0K,1%,1/4W
R56
215K,1%,1/4W
R57
261K,1%,1/4W
IN-RECT
(Sh. 2,3)
AC-OK
(Sh. 4)
AC-OK
R73
22.1K,1%,1/4W
AC-OUT2
(Sh. 1)
+12V
C59
0.01UF,50V,20%
IC8
TL064
D24
1N4148
C51
3.3NF,50V,5%
C43
0.01UF,50V,20%
-8V
R72
10.0K,1%,1/4W
R74
10K,5%,1/4W
R75
100K,1%,1/4W
R76
1.00M,1%,1/4W
IC9
74C14
C21
0.01UF,50V,20%
2N7000
Q38
R77
4.99K,1%,1/4W
PWR-OUT
(Sh. 2)
SEE BOM
R71
20.0K,1%,1/4W
C50
22PF,50V
R70
13.0K,1%,1/4W
100UF/6.3V
C4B
R69
200-OHM,5%,1/4W
CT2
CT1V1-15
HOT-OUT
J6
MNL-4PIN
J9
MNL-4PIN
J5
MNL-4PIN
XFR-T2B
XFR-T2A
XFR-TAP1
F5
30A/32V
F4
30A/32V
RY1
RY2
RY3
RY4
RY5
RY2A
RY3A
16A,250V(24VDC)
450-0012
R12INT
R11INT
47K,5%,1/4W
R12
13.0K,1%,1/4W
R11
13.0K,1%,1/4W
R213INT
R212INT
R213
13.0K,1%,1/4W
R212
13.0K,1%,1/4W
D6
1N4148
D8
1N4148
D9
1N4148
Q44
2N2222
Q45
2N2222
R95
10K,5%,1/4W
R96
47K,5%,1/4W
SHUTDWN
(Sh. 2)
F1INT
1A,250V,VDE,SB
F1
1A,125VAC
XFR-HOT
230V/60Hz
460-0001
CT1
13-OHM,5%,1/4W
R213
SEE BOM
430-0025
T2
OUT-RECT
(Sh. 2)
AC-OUT1
(Sh. 2,3)
I-CAP
(Sh. 3)
RY-WELD
(Sh. 2)
J3
MNL-3PIN
HOT-IN
NEUT-IN
HOTIN2
NEUTIN2
HOTIN3
NEUTIN3
0.55mH,22A
L1
L2
MV1
MV2
MV3
MV4
MV5
MV6
150V(US-ONLY)
MOV-GND
C14
1UF,250VAC,VDE
C141NT
1MF,250VDC
C18
C19
4.7NF,250VAC
W3
W4
LIN-XFER
(Sh. 2)
R97
47K,5%,1/4W
Q3
IRF613
Q42
IRF613
Q42A
2N2222
C153
0.1UF,50V,20%
R93
47K,5%,1/4W
Q43
2N2222
BOOST
(Sh. 2)
R94
47K,5%,1/4W
TRIM
(Sh. 2)
R107
47K,5%,1/4W
Q49
2N2222
R108
47K,5%,1/4W
Q50
IRF613
Q50A
2N2222
C152
0.1UF,50V,20%
0.001UF,100V,10%
C122
R208
680K,5%,1/4W
C20
R13
680K,5%,1/4W
IC21
IC3
312-4N25
R237
0-OHM
R8
680K,5%,1/4W
R7
680K,5%,1/4W
D4
D7
1N4005
D5
1N4005
R10
15K,5%,1/4W
R6
15K,5%,1/4W
D3
LED,RED
SITE WIRING
FAULT
ZNR,11V/5%
D2
Q2
MPSA13
100K,5%,1/4W
C13
22UF,16V
NOT USED
THIS DRAWING AND SPECIFICATIONS HEREIN ARE THE PROPERTY OF AMERICAN POWER CONVERSION AND SHALL NOT BE REPRODUCED OR COPIED OR USED IN WHOLE OR PART AS THE BASIS FOR THE MANUFACTURE OR SALE OF ITEMS WITHOUT WRITTEN PERMISSION FROM AMERICAN POWER CONVERSION
SCH. REV.
PCB REV.
ECO#
PAGE(ZONE)
DESCRIPTION
DATE
APPRVL
REVISION STATUS
PCB DESIGNER
JML
DATE
1/21/94
ENGINEER
JOHN,RON AND MIKE
DATE
1/21/94
CHECKED
DATE
DWG FILE:
American Power Conversion
DESCRIPTION
MAIN CIRCUIT BD
PRODUCT
SU2200/2200XL/3000 INT
APCC PART NO.
640-0735-G
REV.
7
DATE:
1/19/96
SHEET 1 OF 6



THIS DRAWING AND SPECIFICATIONS HEREIN ARE THE PROPERTY OF AMERICAN POWER CONVERSION AND SHALL NOT BE REPRODUCED OR COPIED OR USED IN WHOLE OR PART AS THE BASIS FOR THE MANUFACTURE OR SALE OF ITEMS WITHOUT WRITTEN PERMISSION FROM AMERICAN POWER CONVERSION

American Power Conversion

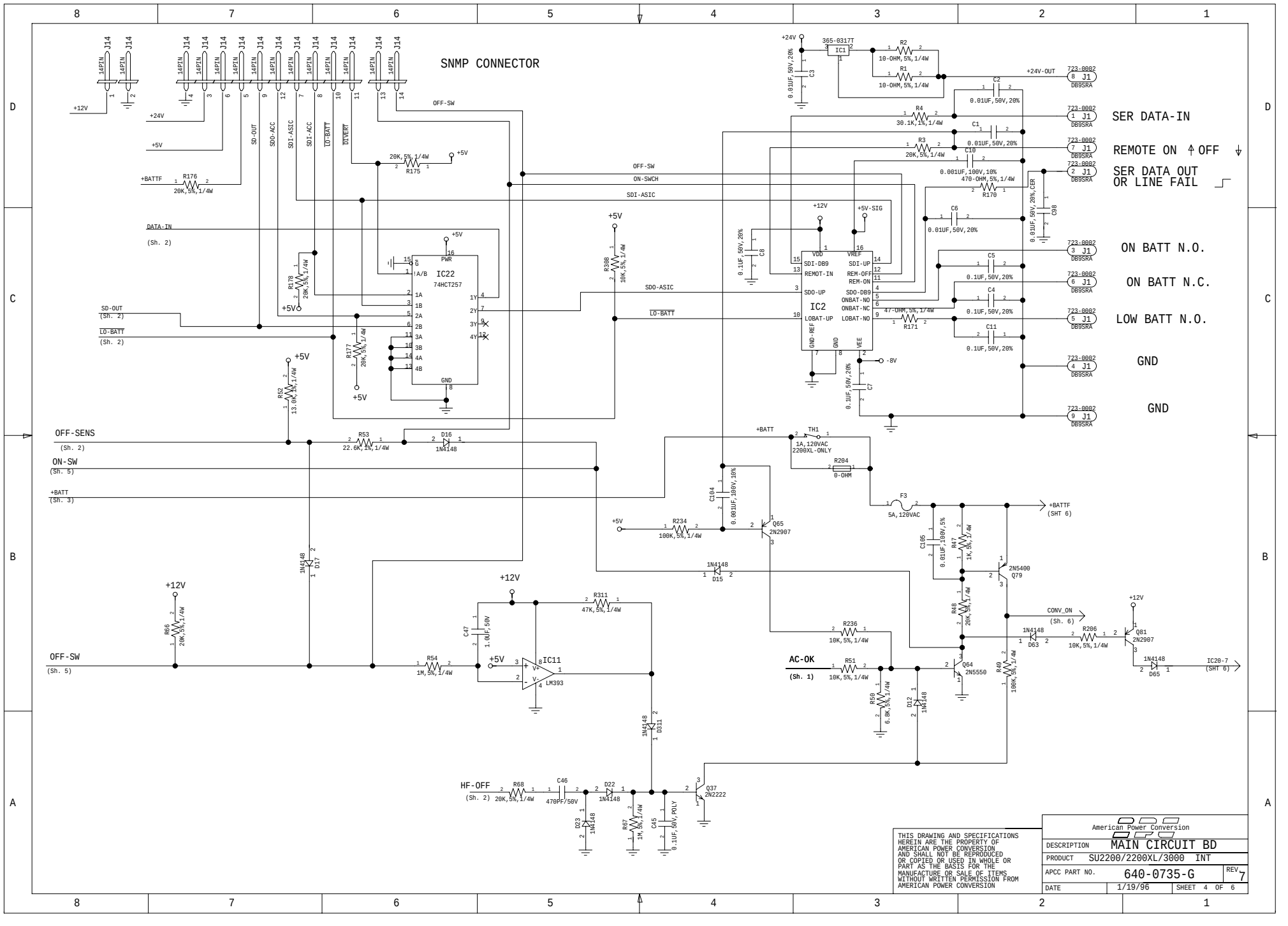
DESCRIPTION	MAIN CIRCUIT BD
PRODUCT	SU2200/2200XL/3000 INT
APCC PART NO.	640-0735-G REV 7
DATE	1/19/96
SHEET	2 OF 6

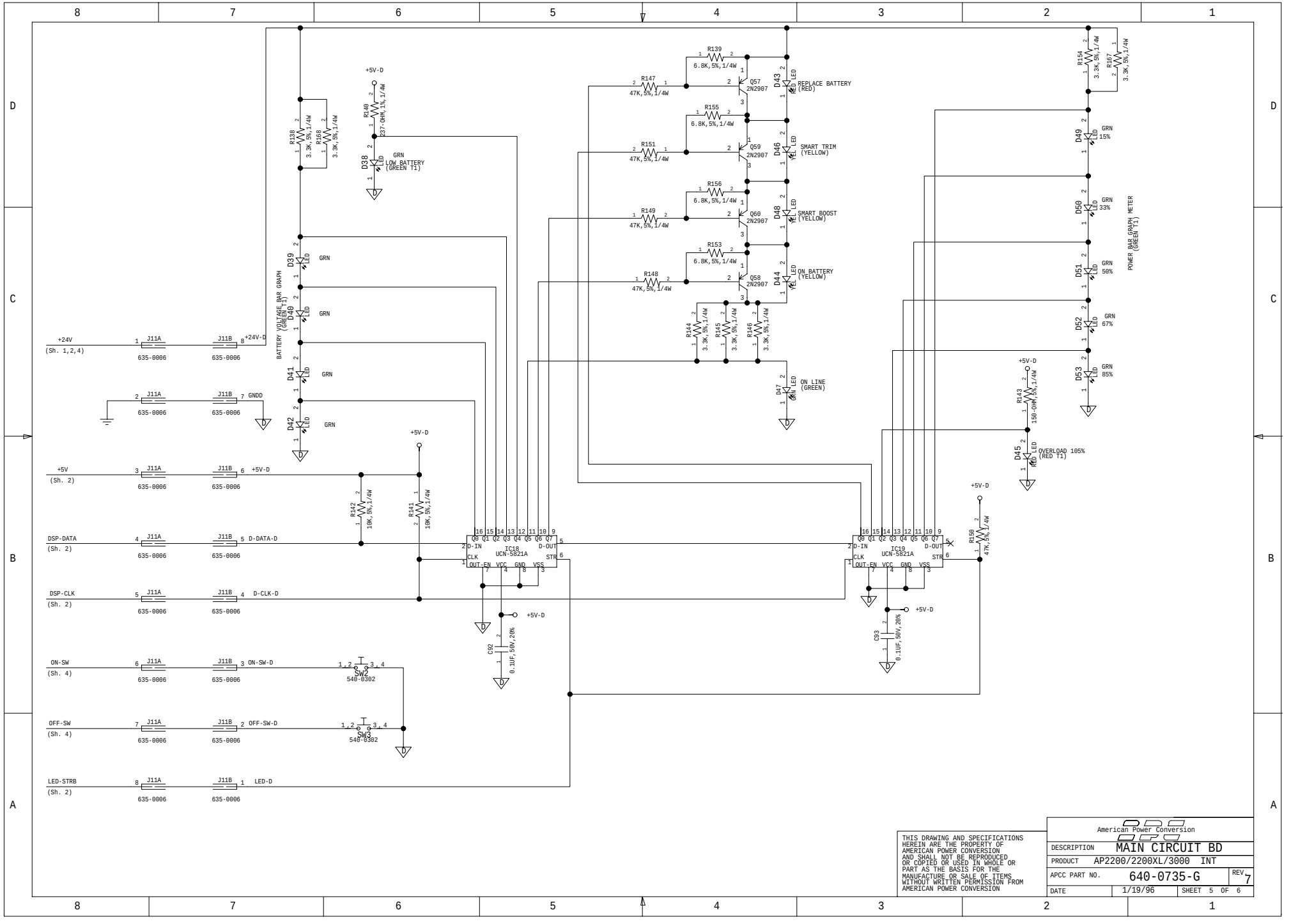


THIS DRAWING AND SPECIFICATIONS HEREIN ARE THE PROPERTY OF AMERICAN POWER CONVERSION AND SHALL NOT BE REPRODUCED OR COPIED OR USED IN WHOLE OR PART AS THE BASIS FOR THE MANUFACTURE OR SALE OF ITEMS WITHOUT WRITTEN PERMISSION FROM AMERICAN POWER CONVERSION

American Power Conversion

DESCRIPTION	MAIN CIRCUIT BD
PRODUCT	SU2200/2200XL/3000 INT
APCC PART NO.	640-0735-G
REV	7
DATE	1/19/96
SHEET	3 OF 6

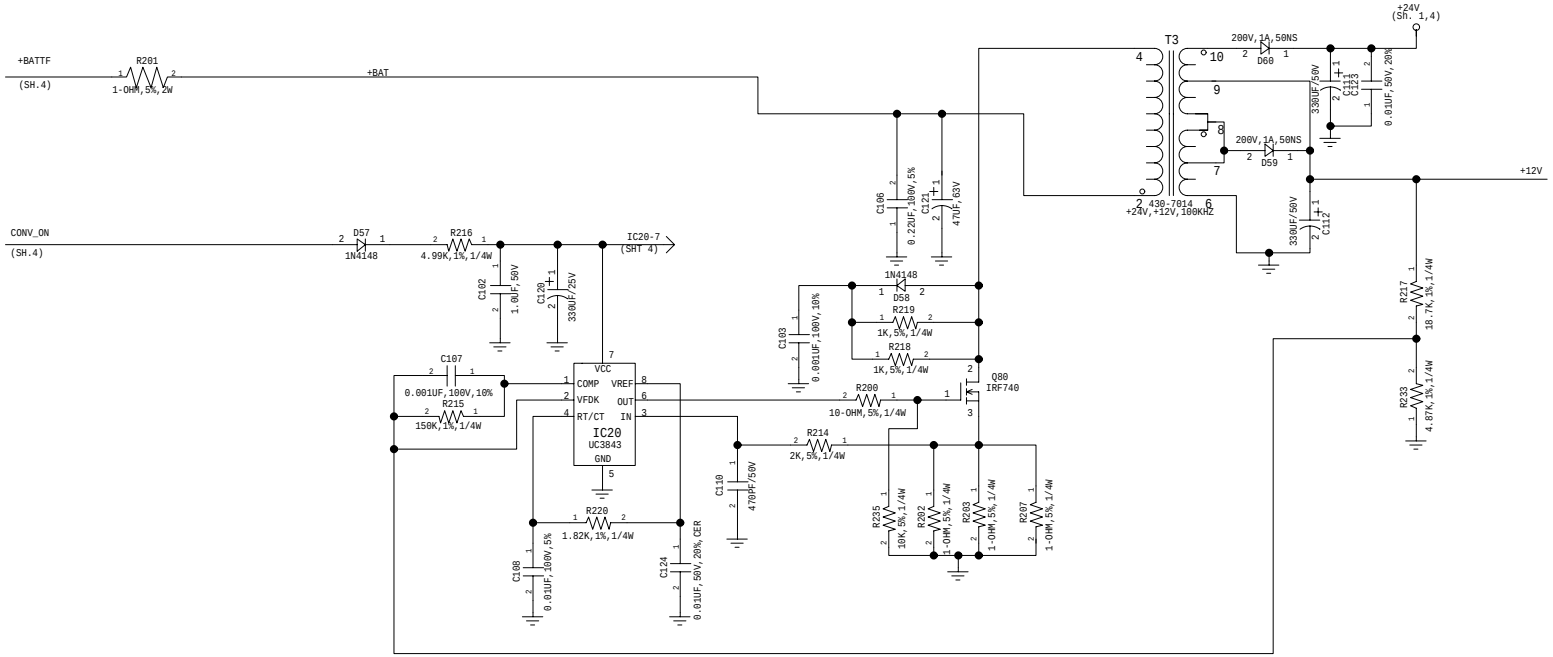

SNMP CONNECTOR
SER DATA-IN
REMOTE ON ⇑ OFF ⇓
SER DATA OUT
OR LINE FAIL
ON BATT N.O.
ON BATT N.C.
LOW BATT N.O.
GND
GND
OFF-SENS
ON-SW
OFF-SW
AC-OK
HF-OFF
DATA-IN
SDO-ASIC
LO-BATT
SDI-ASIC
OFF-SW
ON-SWCH
CONV_ON
IC22
74HCT257
IC2
IC11
LM393
TH1
1A,120VAC
2200XL-ONLY
F3
5A,120VAC
THIS DRAWING AND SPECIFICATIONS HEREIN ARE THE PROPERTY OF AMERICAN POWER CONVERSION AND SHALL NOT BE REPRODUCED OR COPIED OR USED IN WHOLE OR PART AS THE BASIS FOR THE MANUFACTURE OR SALE OF ITEMS WITHOUT WRITTEN PERMISSION FROM AMERICAN POWER CONVERSION
American Power Conversion
DESCRIPTION MAIN CIRCUIT BD
PRODUCT SU2200/2200XL/3000 INT
APCC PART NO. 640-0735-G
REV. 7
DATE 1/19/96
SHEET 4 OF 6



THIS DRAWING AND SPECIFICATIONS HEREIN ARE THE PROPERTY OF AMERICAN POWER CONVERSION AND SHALL NOT BE REPRODUCED OR COPIED OR USED IN WHOLE OR PART AS THE BASIS FOR THE MANUFACTURE OR SALE OF ITEMS WITHOUT WRITTEN PERMISSION FROM AMERICAN POWER CONVERSION

American Power Conversion

DESCRIPTION	MAIN CIRCUIT BD
PRODUCT	AP2200/2200XL/3000 INT
APCC PART NO.	640-0735-G
REV	7
DATE	1/19/96
SHEET	5 OF 6



THIS DRAWING AND SPECIFICATIONS HEREIN ARE THE PROPERTY OF AMERICAN POWER CONVERSION AND SHALL NOT BE REPRODUCED OR COPIED OR USED IN WHOLE OR PART AS THE BASIS FOR THE MANUFACTURE OR SALE OF ITEMS WITHOUT WRITTEN PERMISSION FROM AMERICAN POWER CONVERSION

American Power Conversion

DESCRIPTION	MAIN CIRCUIT BD
PRODUCT	SU2200/2200XL/3000 INT
APCC PART NO.	640-0735-G
REV	7
DATE	1/19/96
SHEET	6 OF 6