E.C.N. D.C.N.	ZONE	REV	DESCRIPTION	DATE	BY	APPROVAL CK	ME	EE	PE
		A	RELEASE FOR PRODUCTION	7-23-99	JFL	KW	N/A	N/A	

NOTES:

1. ALL RESISTORS ARE IN OHMS, 0.10W, 1% UNLESS OTHERWISE SPECIFIED.
2. ALL CAPACITORS ARE IN MICROFARADS UNLESS OTHERWISE SPECIFIED.
3. THIS SCHEMATIC APPLIES TO:
   PRINTED WIRING BOARD 126346-5
   PRINTED WIRING ASSBLY 126451-3

RS-232 (DB9F) J1 — U1 ADM202EARU — U2 PC16522 — U20-C 74HC04 — R1 10K — R70 47.5 — R71 47.5

LOGIC INPUTS — IN1 … IN8 — FB7 … FB14 — R3 … R10 12V — R167 … R174 10K — Q18 … Q25 MMBT3904 — R11 … R18 10K — C8 10 16V — C9 0.1 — FB15

U3 74HC573 — H=HI-Z OUT L=IN=>OUT — LOGCTL — U4 MC74ACT138 — A0 A1 A2 — REAR_CS — GSTATH — GSTATL — LOGCTL — C11 0.1

U5-A 74HC04 — H=LATCH IN L=FROZEN OUT — U5-B 74HC04 — C10 0.1 — C12 0.1

U6 74HC573 — U7 74HC573 — OUTEN1 — OUTEN2 — R176 10K — R175 10K

R27 … R34 1K 0.25W — R19 … R26 10K — Q1 … Q8 MMBT3904 — FB16 … FB23

R43 … R50 1K 0.25W — R35 … R42 10K — Q9 … Q16 MMBT3904 — FB25 … FB32

F1 1A — FB24 2A — R51 5.6V — C13 0.1

CONTROL PORT (DB37M) P7 — OUT1 … OUT16 — +5V — GND — IN1 … IN16

LOGIC INPUTS — IN1 … IN8

R52 … R59 12V — R60 … R67 12V

ANALOG INPUTS — IN9 … IN16

+10V — F2 1A — FB38 2A — C30 0.1 10% — R87 12V

ISP INPUT — P2 — R83 47.5 — R84 47.5 — R85 47.5 — R86 10K — FB34 — C17 0.1

U10 MACH 211SP-15VC — INPUTS: A3,A4,A5,A19,CS3,ECLK, R/W,CSD,CSP0 — OUTPUTS: FLSH_CSH,FLSH_CSL,FLSH_WE,RAM_WE, SH1_CS,SH2_CS,SH_OE,U_CS,U_RD, HIP_OE,REAR_CS

FRONT PANEL — P6 — SCK MOSI TP_CS MISO SW_UP SW_DN SW_SEL LED_CS — TP20 — FB37 — C28 0.1 — C29 100 16V 20%

TP7 TP8 — C25 1 F 5.5V — R177 1K — R178 1K — FB36 — C27 0.1

U11 DS1302Z RTC — RTCLK RTC RTC_CS — Y1 32.768 KHZ — C26 6.8PF 50V

SHARC INTERFACE — R68 10K — R69 10K — HREQ — HACK — R73 … R75 10K — FB33 — C14 10 16V — C15 0.1

U8 74HC573 — R145 … R154 47.5 — SH_A0 … SH_A2 SH_R/W SH_ECLK SH_CS HEN — A0 … A2 R/W ECLK SH_CS HEN — R76 … R79 10K

P1 — CNET_RST — SH_RST — R81 10K — R82 10K

U9 74HCT245A — SH_D0 … SH_D7 — PD0 … PD7 — DIR OE GND — H=Hi-Z OUT L=IN=>OUT — SH_OE — R/W — SH_INT — R148 10K — C16 0.1 — R80 10K — R156 … R161 47.5

TO SHARC PWA — P4 — DGND +5VD DGND — R147 OPEN — W1 FAN W2

FROM POWER SUPPLY — P3 — +15V +5VA +5VD DGND AGND -15V

TO AUDIO I/O PWA — P5 — -15V AGND DGND +5VD +5VA +15V — C23 0.001 50V — L2 53UH — C24 100 16V

U18 LM317S — ADJ — R164 392. — R163 2.80K — C56 10 16V 20% — C51 0.1 — C52 0.1 — C21 0.001 50V — C22 100 16V — FB40 2A

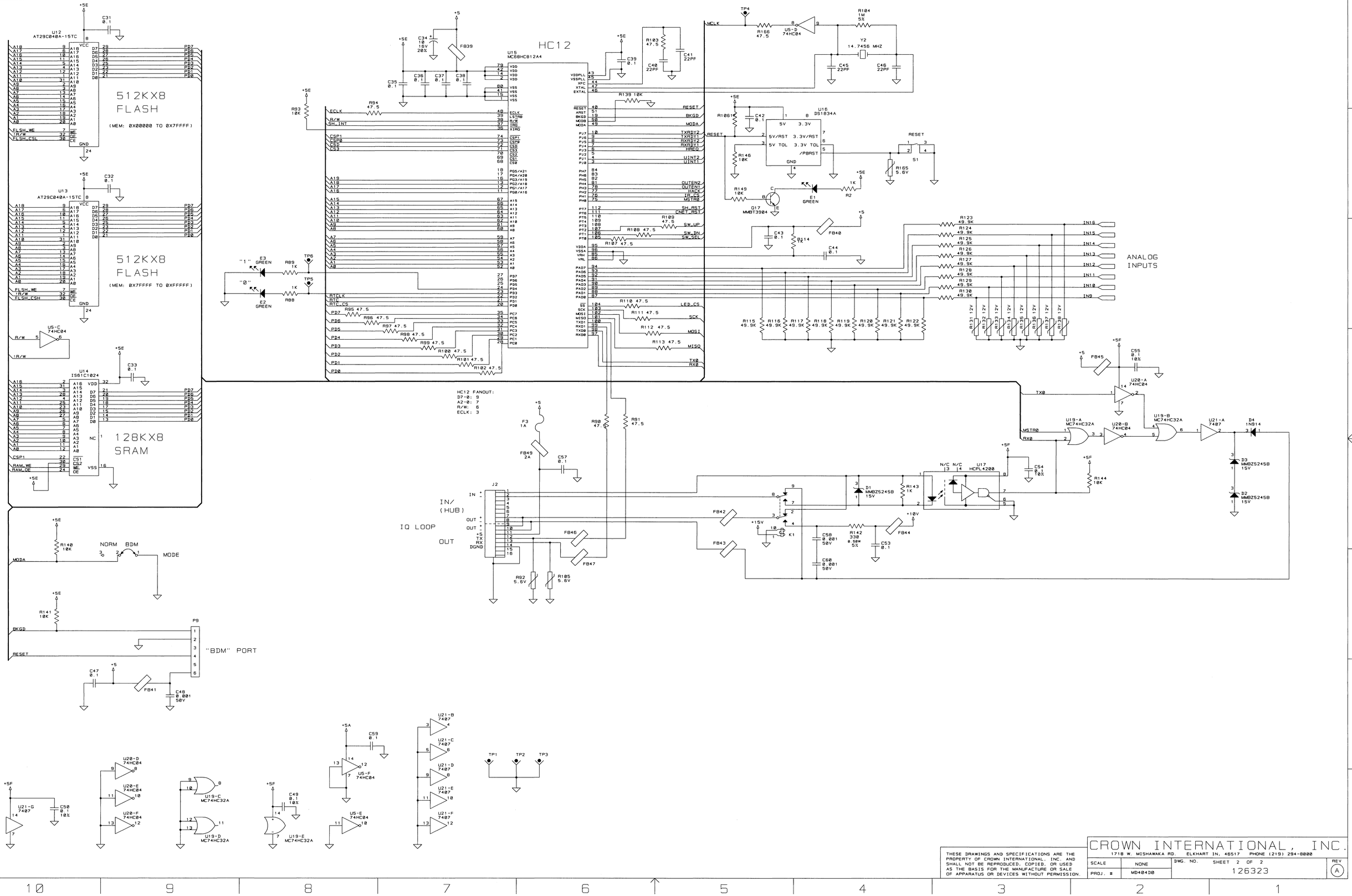
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CROWN INTERNATIONAL, INC.
1718 W. MISHAWAKA RD. ELKHART IN. 46517 PHONE (219) 294-0000

SCH, USM810 SYSTEM CONTROLLER

TOL. UNLESS SPECIFIED X.XX = ±0.02" X.XXX = ±0.010" DRILLS = ±0.003"

PRINTS TO	DRAWN BY	JFL	7-23-99	APPROVED BY:		DO NOT SCALE PRINT
G	CHECKED	KW	07-23-99	ME N/A		SUPERSEDES
	SCALE	NONE		EE N/A		E.C.
	PROJ. #	MD404D0		PE JDM 7-23-99		DWG. NO. SHEET 1 OF 2 REV 126323 (A)
	FILENAME: 126323_A.SCM			NEXT ASSEMBLY:		

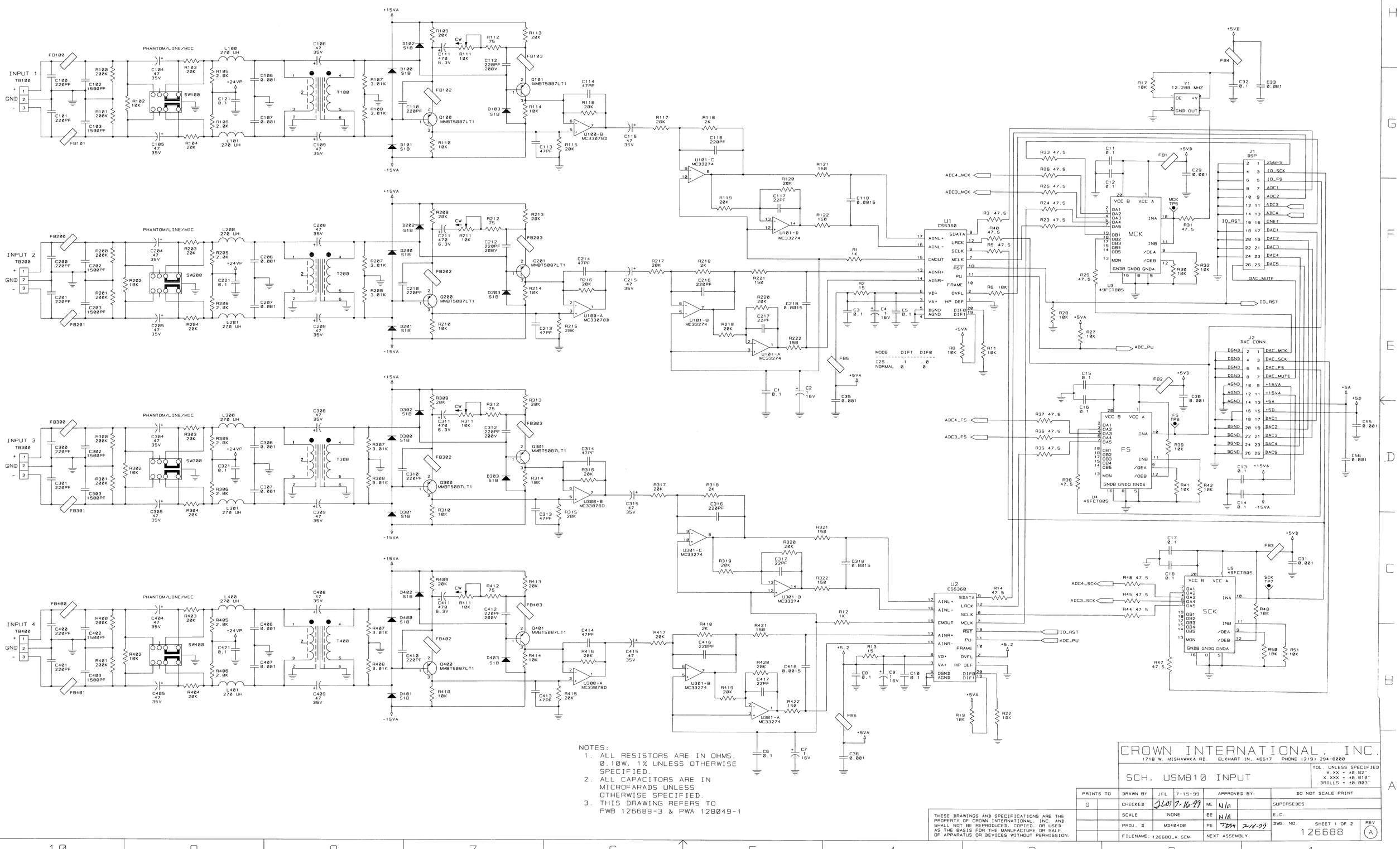


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SCALE	NONE	DWG. NO.	SHEET 2 OF 2	REV
PROJ. #	MD404D0	126323		A

E.C.N. D.C.N.	ZONE	REV	DESCRIPTION	DATE	BY	APPROVAL CK	ME	EE	PE
		A	RELEASE FOR PRODUCTION	7-15-99	JFL	JLM	N/A	N/A	JLM



NOTES:
1. ALL RESISTORS ARE IN OHMS. 0.10W, 1% UNLESS OTHERWISE SPECIFIED.
2. ALL CAPACITORS ARE IN MICROFARADS UNLESS OTHERWISE SPECIFIED.
3. THIS DRAWING REFERS TO PWB 126689-3 & PWA 128049-1

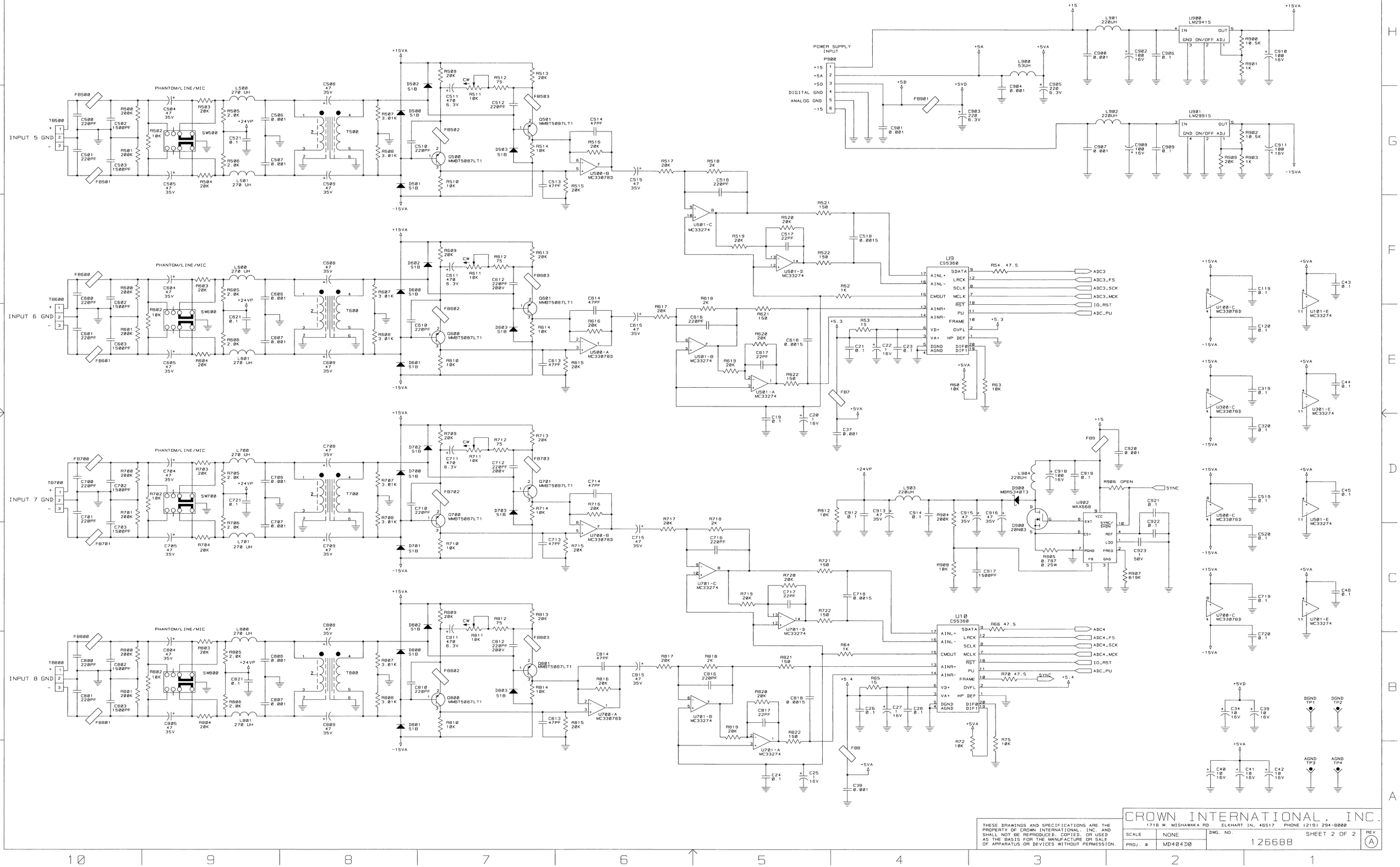
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SCH, USM810 INPUT

TOL. UNLESS SPECIFIED
X.XX = ±0.02"
X.XXX = ±0.010"
DRILLS = ±0.003"

PRINTS TO	DRAWN BY	JFL 7-15-99	APPROVED BY:	DO NOT SCALE PRINT
G	CHECKED	JLM 7-16-99	ME N/A	SUPERSEDES
	SCALE	NONE	EE N/A	E.C.
	PROJ. #	MD4040D	PE JLM 7-16-99	DWG. NO. 126688 SHEET 1 OF 2 REV A
	FILENAME: 126688_A.SCM		NEXT ASSEMBLY:	



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SCALE	NONE	DWG. NO.	SHEET 2 OF 2	REV
PROJ. #	MD4040	126688		A

E.C.N.	ZONE	REV	DESCRIPTION	DATE	BY	APPROVAL CK	CM	EE	PE
		A	RELEASE FOR PRODUCTION	6-16-99	JFL	TLM	JML	N/A	TDM
99E0386		B	PWB WAS 126692-3	7-21-99	JFL	TLM	JML	N/A	TDM
19911706		C	R33 R104 R304 R504 & R704 WERE 10K, R34 R105 R305 R505 & R705 WERE OPEN	8-9-99	JFL	JML	DSV	N/A	TDM

CH1 OUTPUT SCALE
+10DBU / +20DBU

CH2 OUTPUT SCALE
+10DBU / +20DBU

AUX1 OUTPUT SCALE
+10DBU / +20DBU

AUX2 OUTPUT SCALE
+10DBU / +20DBU

MODE	DIF2	DIF1	DIF0
12S	1	1	0
NORMAL	1	0	0

NOTES:
1. ALL RESISTORS ARE IN OHMS. 0.1W, 1% UNLESS OTHERWISE SPECIFIED.
2. ALL CAPACITORS ARE IN MICROFARADS UNLESS OTHERWISE SPECIFIED.
3. THIS DRAWING REFERS TO PWB 126692-4 & PWA 128051-3
4. ALL JUMPERS ARE SHOWN IN FACTORY DEFAULT SETTINGS.

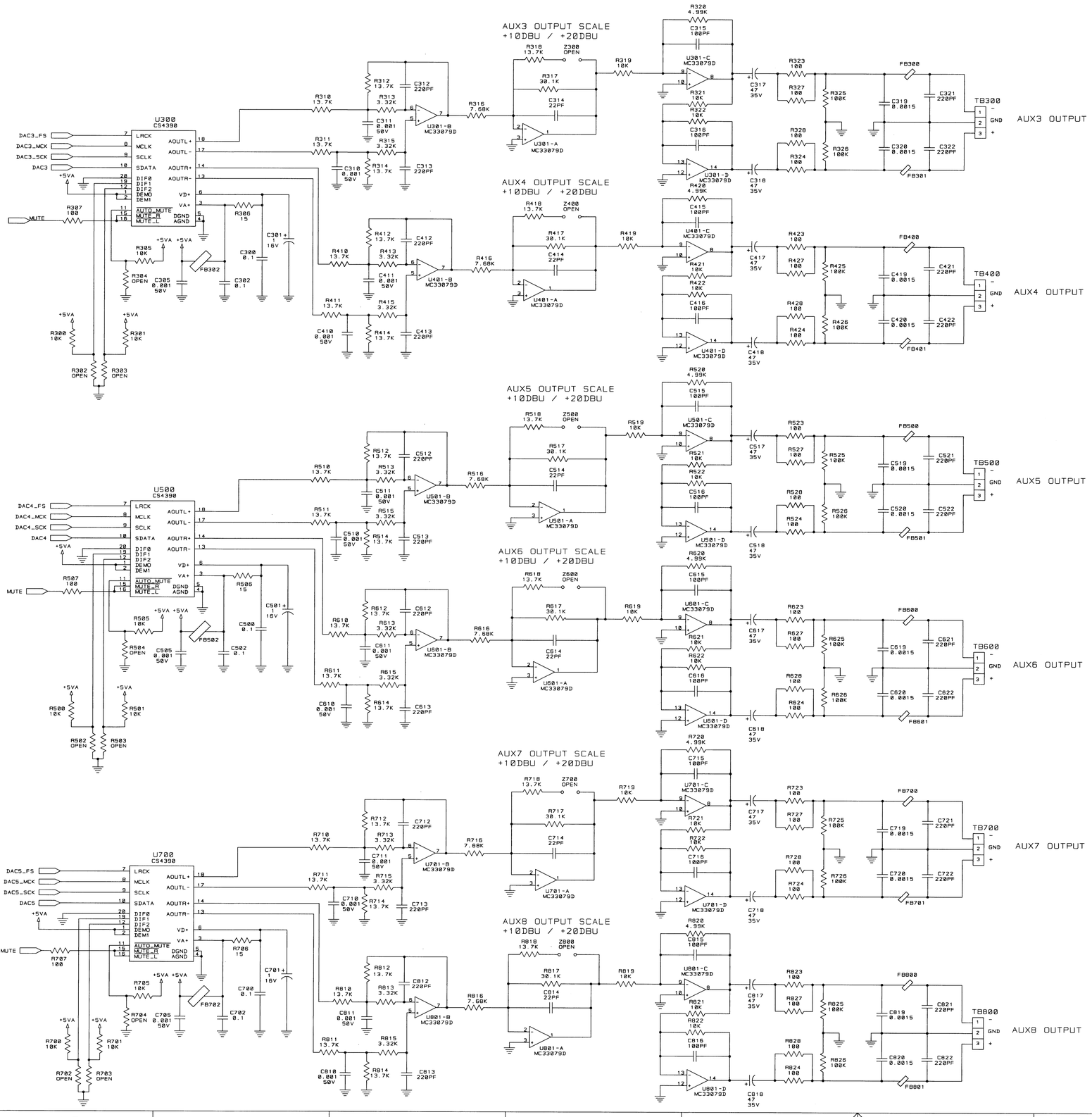
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SCH, USM810 OUTPUT

TOL. UNLESS SPECIFIED X.XX = ±0.02" X.XXX = ±0.010" DRILLS = ±0.003"

PRINTS TO	DRAWN BY	JFL	6-16-99	APPROVED BY:	DO NOT SCALE PRINT
G	CHECKED	JAW	7-21-99	ME	SUPERSEDES
	SCALE	NONE		EE	E.C.
	PROJ. #	MD404D0		PE TDM	7-21-99 DWG. NO. 126691 SHEET 1 OF 2 REV C
	FILENAME: 126691_C.SCM			NEXT ASSEMBLY:	



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CROWN INTERNATIONAL, INC.
1718 W. MISHAWAKA RD. ELKHART IN, 46517 PHONE (219) 294-8000

SCALE	NONE	DWG. NO.	SHEET 2 OF 2	REV
PROJ. #	MD404D0	126691		C

E.C.N.	ZONE	REV	DESCRIPTION	DATE	BY	APPROVAL			
						CK	CM	EE	PE
		A	RELEASE FOR PRODUCTION	7-26-99	JFL	JAW	JML		TDM
99E0322		B	R39 R45 R59 & R69 WERE OPEN	8-9-99	JFL	TLM	JML		TDM
T99/710		C	PWA WAS 128047-2. PWB WAS 126743-3	8-18-99	JFL	JAW	JML	N/A	TDM

NOTES:
1. ALL RESISTORS ARE IN OHMS. Ø.1W, 1% UNLESS OTHERWISE SPECIFIED.
2. ALL CAPACITORS ARE IN MICROFARADS UNLESS OTHERWISE SPECIFIED.
3. THIS DRAWING REFERS TO PWB 126743-4 & PWA 128047-3

PRINTS TO		DRAWN BY	JFL	7-28-99	APPROVED BY:			DO NOT SCALE PRINT
G		CHECKED	JAW	7-27-99	ME			SUPERSEDES
		SCALE	NONE		EE			E.C.
		PROJ. #	WD4040D		PE	TDM	7-28-99	DWG. NO. SHEET 1 OF 2
		FILENAME:	126742_C.SCM		NEXT ASSEMBLY:			126742

REV: C

CROWN INTERNATIONAL, INC.
1718 W. MISHAWAKA RD. ELKHART IN. 46517 PHONE (219) 294-8000

SCH, USM810 DSP

TOL. UNLESS SPECIFIED
X.XX = ±0.02"
X.XXX = ±0.010"
DRILLS = ±0.003"

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INPUT POWER CONN

SYS CONTROLLER CONNECTOR

CNET CONN

ADDR TO SHARC

DATA TO SHARC

DATA FROM SHARC

SYS I/F PLD

ISP INPUT

ARBITER PLD

UTILIZATION PLD

#0 U25-B 21065

#1 U27-B 21065

#2 U26-B 21065

#3 U28-B 21065

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	SCALE NONE	DWG. NO. 126742	SHEET 2 OF 2
	PROJ. # MD404D0		REV C

E.C.N.	ZONE	REV	DESCRIPTION	DATE	BY	APPROVAL			
						CK	CM	EE	PE
		A	RELEASE FOR PRODUCTION	7-26-99	JFL	JAW	JML	N/A	TDM
99E0322		B	R39 R45 R59 & R69 WERE OPEN	8-9-99	JFL	TLM	JML	N/A	TDM
T991710		C	PWA WAS 128047-2. PWB WAS 126743-3	8-18-99	JFL	TLM	DSV	N/A	TDM
T991920		D	R14,R15,R22,R23,R30,R31,R40,R41,R46,R47,R50,R57,R60, R61,R65,R66,R103,R106,R109,R112 WERE A11368-47R51	10-27-99	JFL	JAW	KJ	N/A	TDM

NOTES:
1. ALL RESISTORS ARE IN OHMS. 0.1W, 1% UNLESS OTHERWISE SPECIFIED.
2. ALL CAPACITORS ARE IN MICROFARADS UNLESS OTHERWISE SPECIFIED.
3. THIS DRAWING REFERS TO PWB 126743-4 & PWA 128047-4

I/O CONN

SERIAL INPUT ROUTER

SERIAL OUTPUT ROUTER

SHARC JTAG

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SCH, USM810 DSP

TOL. UNLESS SPECIFIED
X.XX = ±0.02"
X.XXX = ±0.010"
DRILLS = ±0.003"

PRINTS TO		DRAWN BY	JFL	7-26-99	APPROVED BY:		DO NOT SCALE PRINT
G		CHECKED	JAW	7-27-99	ME	N/A	SUPERSEDES
		SCALE	NONE		EE	N/A	E.C.
		PROJ. #	M0484D0		PE	TDM 7-28-99	DWG. NO. SHEET 1 OF 2
		FILENAME:	126742_D.SCM		NEXT ASSEMBLY:		126742 REV D

INPUT POWER CONN

SYS CONTROLLER CONNECTOR

CNET CONN

ADDR TO SHARC

DATA TO SHARC

DATA FROM SHARC

SYS I/F PLD

ISP INPUT

ARBITER PLD

UTILIZATION PLD

#0

#1

#2

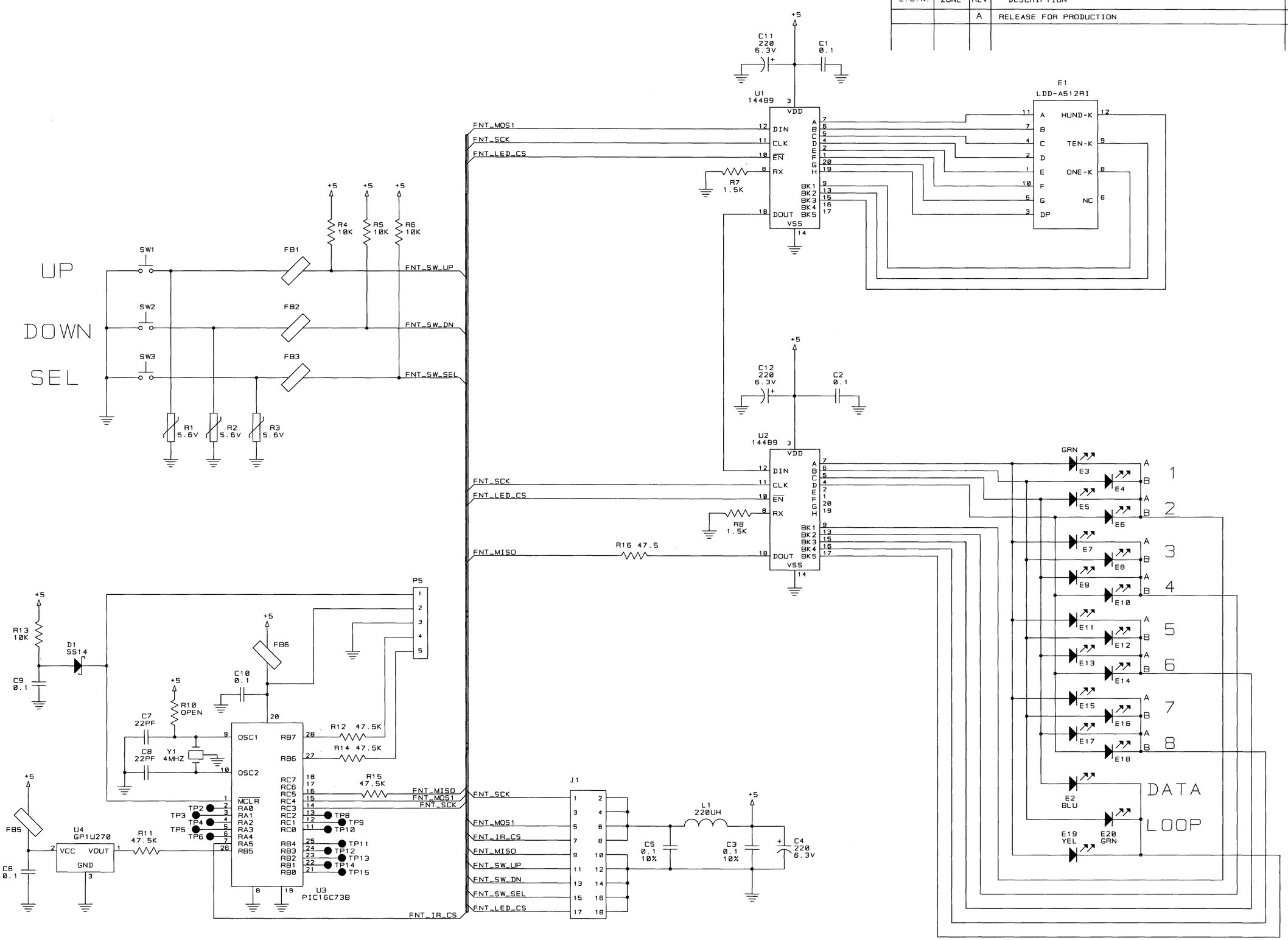
#3

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CROWN INTERNATIONAL, INC.
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SCALE	NONE	DWG NO	SHEET 2 OF 2	REV
PROJ. #	MD404D0		126742	D

E.C.N.	ZONE	REV	DESCRIPTION	DATE	BY	APPROVAL			
						CK	CM	EE	PE
		A	RELEASE FOR PRODUCTION	7-16-99	JFL	JW	JmL	N/A	TDM



NOTES:
1. ALL RESISTORS ARE IN OHMS. 0.10W, 1% UNLESS OTHERWISE SPECIFIED.
2. ALL CAPACITORS ARE IN MICROFARADS UNLESS OTHERWISE SPECIFIED.
3. THIS DRAWING REFERS TO PWB 126746-3 & PWA 126747-3

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SCH, USM810 DISPLAY

TOL. UNLESS SPECIFIED
X.XX = ±0.02"
X.XXX = ±0.010"
DRILLS = ±0.003"

PRINTS TO		DRAWN BY	JFL	7-16-99	APPROVED BY:			DO NOT SCALE PRINT
G		CHECKED	JW	7/19/99	ME	N/A		SUPERSEDES
		SCALE	NONE		EE	N/A		E.C.
		PROJ. #	MD404D0		PE	TDM	7-16-99	DWG. NO. 126745 REV (A)
		FILENAME: 126745_A.SCM			NEXT ASSEMBLY:			