

8410 / 8406 TUBE DECK Board

ABX-X437 BOM Rev A

Item	ALPHA #	Qty	Reference	Part Number	Manufacturer	Description
1	ACX-X805	1	L2		ALPHA	IND,TOROIDAL,INPUT INDUCTOR
2	ACX-X808	1	L1		ALPHA	IND,TOROIDAL,INPUT INDUCTOR
3	ATX-X928	1	T1		ALPHA	TRANSFORMER,COMMON MODE,BIFILLER
4	CGX-8010-D	1	SP1	CG2800L	LITTLE FUSE	SPARK GAP,AXIAL,800V,THRU HOLE
5	CHX-1012-A	2	C13 C17	C0805C101J5GACTU	KEMET	CAP CERAMIC 100PF 50V NP0 0805
6	CHX-1015-C	1	C8	C1808C101KHRACTU	KEMET	CAP 100pF 500V (min) 10% 1808 HIGH VOLTAGE MLCC
7	CHX-1023-B	3	C4 C14 C18	C0805C102K5RAC7800	KEMET	CAP,1000PF,CHIP,0805,+/-10%,X7R,50v
8	CHX-1026-B	1	C11	1808AC102KAT1A	AVX	CAP,CER,1000PF,1808,1KV,X7R
9	CHX-1034-B	1	C2	C0805C103K5RAC7800	KEMET	CAP,10NF,CHIP,0805,+/-10%,X7R,50v
10	CHX-1035-C	7	C5-7 C9-10 C15-16	VJ1808Y103MXEAT	VISHAY	CAP,CER,10NF,1808,500V,X7R
11	CHX-2200-A	1	C3	C08053C220J5GAC	KEMET	CAP MC X7R CHIP 0805 50V 22PF
12	CMX-1810-A	1	C20	CD15FD181JO3F	CDE	CAP MICA 180 PF 500V RADIAL 5%
13	CMX-2010-A	1	C19	CD15FD201JO3F	CDE	CAP MICA 200PF/500V/5% CD15FD201JO3F
14	DNI	1	C12	DNI	DNI	DNI
15	DNI	1	C1	DNI	DNI	DNI
16	DZA-X013	2	D1 D3	SM15T100A	ST MICRO	DIODE,TV,1500W,UNIDIRECTIONAL
17	DZA-X014	1	D2	SMCJ400A	LITTLE FUSE	TV,400V,DO-214AB
18	HLX-X230	4	J1-3 J5	4907	KEYSTONE	CONN SOLDER TAB THRU HOLE RT ANGLE KEYSTONE 4907
19	HWX-X178	4	MT1-4	5062-3	KEYSTONE	STANDOFF,BRASS NIC/PLAT,.500X.250X.141
20	JAX-X303	2	J9-10	640456-3	AMP	CONN,THRU,BERG TYPE,.1",3 PIN
21	JAX-X402	2	J4 J6	640457-2	AMP	MTA .100 CONN FRICTION LCK HDR 1x2P RIGHT ANGLE POST TIN
22	JAX-X708	1	J7	641126-8 non-ROHS	AMP	CONNECTOR,.1,8 POSITION,LOCKING
23	JCX-X195	1	J8	901	KEYSTONE	CONN,RCA,RIGHT ANGLE,THRU HOLE
24	JTX-X101	7	TP1-7	5005	KEYSTONE	TERMINAL TESTPOINT RED
25	KDX-X124	1	K1	TQ2-12V	OMRON	Relay, Input, DPDT, 12 V, Panasonic TQ2-12V
26	LCX-X106	1	L3	4652-RC	JW MILLER	IND,1mH,THRU HOLE
27	RFFA-A1010-A	1	R1	CRCW0805100RFKEA	VISHAY	RES,MF,1/10W,0805,1%,100
28	RFFA-E1510-A	1	R2	RHC251215001%R	Stackpole	RES,MF,2W,2512,1%,150
29	RFO-H220-C	1	R3	RCR500-22R-J-P	Welwyn	RES,MO,3 WATT,22 OHM,10%,THRU HOLE
30	UAX-X031	1	U1	DS18S20Z+	DALLAS	IC THERM MICROLAN HI-PREC 8-SOIC
31	WXX-X146	1		FP301	3M	POLYOLEFIN HEAT SHRINK TUBING 1/2" CLEAR
32	BCX-X437 REV A	1				PCB,TUBE DECK,8410
33	HXW-X178	4	MT1-4	5063-2	KEYSTONE	STANDOFF,BRASS NIC/PLAT,.500X.250X.141

**ABX-X438 REV B
8410 OUTPUT BOARD**

Item	ALPHA #	Qty	Reference	Part Name	Manufacturer	Description
1	ACX-X838	1	T1	ACX-X838	VF TRANSFORMER	Toroid Assy, 38 Turns #28 on XCX-X115
2	BCX-X438 REV B	1	PCB	BCX-X438		PCB,8410,OUTPUT T/R
3	CGX-1150	1	SP1	CG31.5L	Littelfuse	Gas Discharge Tube GDT Gas Plasma Arrestors STD 1.5KV NOM
4	CHX-1001-B	1	C22	C0805C100JDGACTU	Vishay	CAP,CER,10PF,1000V,0805,5%,COG
5	CHX-1023-B	8	C20-21 C24-29	C0805C102K5RAC7800	KEMET	CAP,1000PF,CHIP,0805,10%,X7R,50v
6	CHX-1025-B	3	C4-5 C7	501R15W102KV4E	Johanson	CAP,1000PF,CHIP,0805,10%,X7R,500v
7	CHX-1026-B	2	C6 C17	1808AC102KAT1A	AVX	CAP,CER,1000PF,1808,1KV,X7R
8	CHX-1034-B	8	C8-14 C16	C0805C103K5RACTU	KEMET	CAP,10NF,CHIP,0805,10%,X7R,50v
9	CHX-1035-C	1	C15	VJ1808Y103MXEAT	VISHAY	CAP,CER,10NF,1808,500V,X7R
10	CHX-47G0-A	1	C1	VJ1111D4R7CXRAJ	VISHAY	CAP CER 4.7PF .25% 1500V NP0 1111
11	CMA-1210-A	1	C2	MC12FD121J-F	CDE	CAP MICA 120pF 500V 1210 SMD
12	CMA-3900-A	1	C23	MC12FD390J-F	CDE	CAP MICA SMD, 39PF 500V 5%
13	CVX-6000	1	C3	538-006 F 15-60	TUSONIX	CAP, TRIMMER 15-60PF 100V N1500
14	DRA-X009	6	D1-6	1N5711W-7-F	DIODES INC.	DIODE SCHOTTKY 70V 333MW SOD123
15	DZX-X155	1	D7	1N5339BRLG	ON SEMICONDUCTOR	DIODE,ZENER,5.6V,5 WATT,THRU HOLE
16	JAX-X310	1	J5	1-640456-0	AMP TYCO	CONN HEADER VERT 10 POS. .100 TIN
17	JCX-X195	2	J3 J6	901	KEYSTONE	CONN,RCA,RIGHT ANGLE,THRU HOLE
18	KDX-X145	1	K1	V23079A1003B301	TYCO	12VDC NON-LATCHING RELAY
19	KVX-X106	1	K2	G41C334	GIGAVAC	RELAY,VACUUM,DPDT, 26.5 VOLT
20	LCX-X104	1	L1	MS75085-19BH	VISHAY	MOLDED INDUCTORS 1K UH 10% IM2 MS75085-19BH
21	LCX-X106	2	L2-3	4652-RC	JW MILLER	CHOKE, RF, VARNISHED 1.00mH 5%
22	RFFA-A1020-A	1	R3	RK73H2AT1001F	KOA	RES,MF,1/8W,0805,1%,1.00K
23	RFFA-A3323-A	2	R6-7	RC0805FR-07332KL	YAGEO	RES 332K OHM 1/8W 1% 0805 SMD
24	RFFA-A6812-A	2	R8-9	ERJ-6ENF6812V	PANASONIC	RES 68.1K OHM 1/8W 1% 0805 SMD
25	RFFA-D1010-A	5	R1-2 R4-5 R10	CRCW2512100RFKEG	VISHAY	RES 100 OHM 1W 1% 2512 SMD

HARDWARE

1	HXK-3119	4	T1	145952	FASTENAL	SPACER,.25 OD X .375 L,AL,#4 CLEAR
2	HSS-3034	4	T1	72488	FASTENAL	S/S PPHMS 4-40 X 5/8 SCREW
3	HWX-3003	4	T1	HWX-3003	FASTENAL	#4 INT LWSS
4	HSS-3027	4	T1	73404	FASTENAL	4-40 X5/16 SKT HD CAP SC
5	WCX-X120	1	T1	1673A TIN	BELDEN	SEMI RIGID COAX RG 402/U 50 OHM
6	MSX-9528	1	T1		DYNAMIC DESIGN	SHEET METAL OUTPUT WATTMETER COVER COPPER
7	HXA-A141	1	T1	A1116	STIMPSON	BRASS EYELET
8	XCX-X110	3	L3	2643000101	FAIR-RITE	FERRITE BEAD TYPE 43, .138 OD, .051 ID, .128 LENGTH

8410/8406 DIGITAL DISPLAY

BCX-X428 BOM REV 3

Item	ALPHA #	Qty	REF-DES	PART NUMBER	Description	TOLERANCE	MFG #1
1	CEA-6870-C	1	C3	EEV-HD1V220P	CAP,ELE,680uF,16V,+/-20%,CASE G	+/- 20%	CDE
2	CHX-1023-B	1	C4	C0805C102K3RAC	CAP,1000PF,CHIP,0805,+/-10%,X7R,50v	50v,+/- 10%	KEMET
3	CHX-1034-B	1	C2	C0805C103K5RAC	CAP,10NF,CHIP,0805,+/-10%,X7R,50v	50v,+/- 10%	KEMET
4	CHX-1040-B	1	C1		CAP,CER,100NF,100V,0805+/-10%,X7R	10%	
5	DLX-X104	7	D17-20 D30-32		RED,LED,THRU HOLE,.1 ON CENTER,.1X.3		
6	DLX-X105	1	D29		YELLOW,LED,THRU HOLE,.1 ON CENTER,.1X.3		
7	DLX-X106	23	D1-16 D23-28 D41		GREEN,LED,THRU HOLE,.1 ON CENTER,.1X.3		
8	DLX-X107	19	D34-40 D42-53		GREEN,LED,THRU HOLE,.1 ON CENTER,.3X.3		
9	DLX-X122	4	D21 D33 D54 D56	SSL-LX5093GD	DIO,LED,GREEN,2.1V,30MA,THRU		LUMEX
10	DLX-X123	3	D22 D55 D58	SSL-LX5091HD	DIO,LED,RED,2.1V,30MA,THRU		LUMEX
11	DLX-X124	1	D57	SSL-LX5093YD	DIO,LED,YELLOW,2.1V,30MA,THRU		LUMEX
12	JTX-X101	6	TP1-6		TERMINAL TESTPOINT RED		
13	RFFA-A1030-A	1	R1	RM73B2AT103J	RES,MF,1/10W,0805,5%,10K	5%	KOA
14	RFFA-A22R1-A	3	R4-6		RES,MF,1/10W,0805,1%,22.1	1%	KOA
15	RJX-1030	1	R3	3299P-1-103	RES,VAR,25 TURN,10K,THRU,VERTICAL		BOURNS
16	UAX-X012	1	U1	MAX7219CWG	IC,LED DRIVER,		MAXIUM
17	UAX-X013	1	U2	LM2940IMP-5	IC,LDO,REGULATOR,5.0 VOLT,1AMP,TO-223		NATIONAL SEMICONDUCTOR
18		1	J1		CON,4X2 .100 ON CENTER		
19		1	R2		DNI		

BCX-X439 BOM REV B
8410 CONTROLLER

Item	ALPHA #	Qty	REF-DES	PART NUMBER	Description	Tolerance	MFG #1
1	CEA-1080-D	4	C57-59 C69	AFK108M50P44T-F	CAP,ELE,1000UF,50V,20%,CASE P	20%	CDE CORNELL DUBILIER
2	CEA-2260-C	1	C45	EEV-HD1V220P	CAP,ELEC,SMT,22UF,35v	+/-20%	PANASONIC
3	CEA-3350-C	1	C31	EEV-HD2A3R3P	CAP,ELEC,SMT,3.3UF,100v	+/-20%	PANASONIC
4	CEX-3360-C	2	C48-49		CAP,ELE,RADIAL,33UF,50V,THRU HOLE	20%	TCI
5	CEX-4771-C	1	C66		CAP,ELE,470UF,25V,RADIAL,THRU	20%	NICHICON
6	CHX-1000-B	4	C29 C32 C91-92	C0805C100K5GAC7800	CAP,CER,10PF,50V,0805+/-10%,COG	10%	KEMET
7	CHX-1012-A	5	C25-26 C40 C42 C93	C0805C101J5GAC	CAP,100pF,CHIP,0805 +/- 5%,COG	+/- 5%	KEMET
8	CHX-1023-B	25	C2-4 C11 C24 C28 C30 C33 C36 C43 C47 C51 C55 C60 C68 C75-76 C86-88 C90 C95-98	C0805C102K5RAC7800	CAP,1000PF,CHIP,0805,+/-10%,X7R,50v	50v,+/- 10%	KEMET
9	CHX-1034-B	46	C1 C5-9 C12-23 C27 C34-35 C38-39 C41 C44 C46 C50 C52-54 C56 C62-64 C67 C70-71 C73 C77-79 C81 C84-85 C89 C94	C0805C103K5RAC7800	CAP,10NF,CHIP,0805,+/-10%,X7R,50v	50v,+/- 10%	KEMET
10	CHX-1035-C	1	C10	VJ1808Y103MXEAT	CAP,CER,10NF,1808,500V,X7R	20%	VISHAY
11	CHX-1040-B	1	C80	C0805C104M5RAC7800	CAP,CER,100NF,50V,0805+/-10%,X7R	10%	KEMET
12	CHX-1041-B	1	C37	1825CC104KAT1A	CAP,MCER,X7R,1825,600V,10%,.1UF	10%	KEMET
13	CHX-1050-B	1	C72	C0805C105K8RAC	CAP,CER,1UF,50V,0805+/-10%,X7R	10%	KEMET
14	CHX-2200-A	2	C61 C65	C08053C220J5GAC	CAP MC X7R CHIP 0805 50V 22PF	+/-5%	KEMET
15	CLA-4R70-B	3	C74 C82-83	293D475X9016B2W	CAP,TANT,4.7UF,16v,10%,3528,SMT	16v 10%	Sprague
16	DLX-X125	4	D8-10 D21	SML-LX151C-TR	DIO,LED,RED,2V,30mA,SOT-23		LUMEX
17	DRA-X002	10	D1-6 D12-13 D16-17	BAV70LT1	DIODE,DUAL,HIGH SPEED COMM CATH,SOT23		ON SEMICONDUCTORS
18	DRA-X009	2	D22-23	1N5711W-7-F	DIODE SCHOTTKY 70V 333MW SOD123		DIODES INC.
19	DRA-X011	1	U7	SP0503BAHT	DIODE,TRIPLE,TV,6.6V CLAMP,SOT-143		LITTLE FUSE
20	DRX-X003	1	D14	RS402L	DIODE,BRIDGE,100V,4 AMP		MCC
21	DZA-	2	D19-20	BZX585-C3V3,135	DIO,ZEN,3.3V,300MW,SOD523	5%	NXP
22	DZA-X003	1	D7	SMAZ24	DIODE,ZENER,1WATT,24V,SMA		DIODES INC.
23	DZA-X004	1	D11	SMAZ5V1	DIODE,ZENER,1WATT,5.1V,SMA		DIODES INC.
24	DZX-X114	1	D18	1N5363BG	DIODE,ZENER,30V,5 WATT,THRU HOLE		ON SEMICONDUCTOR
25	DZX-X155	1	D15	1N5339BRLG	DIODE,ZENER,5.6V,5 WATT,THRU HOLE		ON SEMICONDUCTOR
26	JAX-X303	1	J5		CONN,THRU,BERG TYPE,.1",3 PIN		
27	JAX-X303	3	J9-10 J12	640456-3	CONN,THRU,BERG TYPE,.1",3 PIN		AMP
28	JAX-X304	2	J4 J8	640456-4	CONN,4 PIN,.1PS,FRICTION LOCK,		AMP
29	JAX-X305	3	JP1-3		CONNECTOR,.1, 5 POSITIONS		
30	JAX-X725	1	J6		CONNECTOR,.156,SINGLE ROW,3 POSITIONS		
31	JCX-X195	1	J11	901	CONN,RCA,RIGHT ANGLE,THRU HOLE		KEYSTONE
32	JFX-X190	1	J7	924	CONN,USB,TYPE B		KEYSTONE
33	JTX-X101	18	TP1-18	5000	TERMINAL TESTPOINT RED		KEYSTONE
34	KDX-X124	1	K1		RELAY,DPDT,12V,1AMP CONTACTS		
35	QAX-X001	1	Q6	MMBT3906 D87Z	TRANSISTOR,PNP,SOT-23		FAIRCHILD
36	QAX-X002	3	Q1-2 Q15	MMBT3904LT1	TRANSISTOR,NPN,SOT-23		ON SEMICONDUCTOR
37	QAX-X006	5	Q3-4 Q12-14	FZT603	TRANSISTOR,2 AMP,100V,SMT,SOT223		ZETEL
38	QAX-X007	1	Q10	IRF610S	FET,N CHANNEL,200V,3.3A		INTERNATIONAL RECTIFIER
39	QAX-X008	2	Q5 Q11	IRF9620S	FET,P CHANNEL,200V,3.5A		INTERNATIONAL RECTIFIER
40	QTX-X178	3	Q7-9	IRLL014	FET,N CHANNEL,60V,2.7AMP,SOT223		INTERNATIONAL RECTIFIER
41	RFFA-A0000-0	1	R15	RM73Z2AT	RES,MF,1/8W,0805,0%,0 OHM		KOA
42	RFFA-A1010-A	4	R8 R18 R43 R94		RES,MF,1/10W,0805,1%,100	1%	ANY VENDOR
43	RFFA-A1020-A	14	R13 R19 R25 R49 R51 R70-71 R73 R78-82 R98	RK73H2AT1001F	RES,MF,1/8W,0805,1%,1.00K	1%	KOA
44	RFFA-A1030-A	33	R5-7 R9 R16 R20 R32 R38 R40 R42 R45 R47-48 R55 R57-58 R60-62 R64-68 R72 R74-76 R84 R93 R96-97 R100		RES,MF,1/8W,0805,1%,10.0K	1%	
45	RFFA-A1040-A	4	R4 R44 R52 R88		RES,MF,1/10W,0805,1%,100K	1%	ANY VENDOR
46	RFFA-A1050-C	1	R1		RES,MF,1/8W,0805,5%,1.00M	5%	KOA
47	RFFA-A1242-A	1	R95	CRCW080512K4FKEA	RES,MF,1/10W,0805,1%,12.4K	1%	VISHAY
48	RFFA-A2212-A	3	R2-3 R99		RES,MF,1/10W,0805,1%,22.1K	1%	KOA
49	RFFA-A2710-C	2	R28-29		RES,MF,1/10W,0805,5%,270	5%	KOA
50	RFFA-A3322-A	1	R59		RES,MF,1/10W,0805,1%,33.2K	1%	KOA
51	RFFA-A4321-A	2	R17 R77	292-4.32K-RC	RES,MF,1/10W,0805,1%,4.32K	1%	XICON
52	RFFA-A4720-C	9	R12 R14 R21-22 R34-35 R63 R86-87	9C08052A4701JLHFT	RES,MF,1/10W,0805,5%,4.7K	5%	YAEGO CORP.
53	RFFA-A4990-A	2	R23-24		RES,MF,1/10W,0805,1%,49.9	1%	KOA
54	RFFA-A49R9-A	1	R101		RES,MF,1/10W,0805,1%,49.9	1%	
55	RFFA-A6341-A	1	R56		RES,MF,1/10W,0805,1%,6.34K	1%	
56	RFFA-A6810-A	1	R83		RES,MF,1/10W,0805,1%,680	1%	KOA
57	RFFA-A6811-A	2	R46 R50		RES,MF,1/10W,0805,1%,6.81K	1%	
58	RFFA-A7501-A	2	R30 R36		RES,MF,1/10W,0805,5%,7.5K	1%	KOA
59	RFFA-A8201-A	1	R85		RES,MF,1/10W,0805,5%,8.2K	1%	KOA
60	RFFA-D1002-A	2	R91-92	RK73H3ATTE1002F	RES,MF,1/10W,2512,1%,10.0K	1%	KOA
61	RFFA-D1010-C	3	R31 R37 R39	RM73B3AT101J	RES,MF,1W,2512,5%,100	5%	KOA
62	RFFA-D1530-C	2	R41 R90		RES,MF,1W,2512,5%,15K	5%	KOA
63	RFFA-D2210-C	2	R69 R89		RES,MF,1W,2512,5%,220	5%	KOA
64	RFFA-D2240-C	2	R26 R33		RES,MF,1W,2512,5%,220K	5%	KOA
65	RFFA-D3330-C	1	R27		RES,MF,1W,2512,5%,33K	5%	KOA
66	RFFA-D3600-C	2	R10-11		RES,MF,1W,2512,5%,360	5%	KOA
67	RFFA-G100-C	2	R53-54		RES,2 WATT,VVW,10 OHM,1%	1%	
68	UAX-	1	U11	SN74HC594DWG4	IC, 8BIT SIPO SHIFT REGISTER, SOIC-16		TI
69	UAX-	1	U15	MAX9010EXT+T	IC COMPARATOR TTL SC70-6		MAXIM
70	UAX-	1	U13	PIC18F13K22-I/SS	IC, Microcontrollers (MCU) 8KFlash 256bytesRAM 256bytes EEPROM		MICRO CHIP
71	UAX-	1	U14	TC7WH74FU	IC, FLIP-FLOP D-TYPE SM8-8		TOSHIBA
72	UAX-X020	1	U1	MC7912ACD2TR4G	IC,REGULATOR,-12V,1AMP,D2		ON SEMI
73	UAX-X021	1	U2	LM2940IMP-12	IC,LDO,REGULATOR,12.0 VOLT,1AMP,TO-223		NATIONAL SEMICONDUCTOR
74	UAX-X024	2	U3 U5	LM324M	IC,QUAD,OP AMP,SO14		NATIONAL
75	UAX-X025	2	U8 U12	MAX5384	IC,8 BIT DAC, SOT 23-6		MAXIM
76	UAX-X028	1	U9	LT1790BCS6-4.096#TRM	IC,LDO,4.096V,.1%,SOT23-6		LINEAR
77	UAX-X030	1	U10	604-00043 (FT232RL)	IC, FTDI FT232RL USB to Serial Chip,SSOP-28		FTDI
78	UAX-X032	1	U6	PIC18F4620-I/PT	IC,PROCESSOR,64K,44 PIN QFP		MICRO CHIP
79	UAX-X045	1	U4	SN74VC1G139DCT	IC,2 TO 4 LINE DECODER,SSOP-8		TI
80	YCA-X002	1	Y1	ABLS-10.000MHZ-B2-T	CRYSTAL,10Mhz,+/-20PPM,HC49,SMT		ABRACON
81		2	J2-3		CON,4X2 .100 ON CENTER		
82		1	J1		CON,BERG,HEADER,15X2,.1		
83							
84							

HIGH VOLTAGE RECTIFIER BOARD**ABX-X444 BOM REV 2****ISSUED: June 13, 2011**

Item	Qty	REF-DES	ALPHA #	PART NUMBER	Description	TOLERANCE	MFG #1
1	20	C1-20	CHX-1026-C	C4520X7R3A102K	CAP CER 1000PF 1000V X7R 10%1808	10%	TDK
2	20	D1-20	DRA-X015	CFRB207-G	DIODE FAST REC 2A 1000V DO-214AA		Comchip Technology
3	2	J1 J3 J7-8	HLX-X220	FASTON	CON,STRAIGHT,2 HOLE,FLAG MOUNT		KEYSTONE
4	1	PCB	BCX-X444				

**BCX-X815
8400 SERIES MAINS BOARD**

Item	Qty	REF-DES	ALPHA #	PART NUMBER	Description	TOLERANCE	MFG #1
1	4	D10-13	DZX-X114	1N5363BG	DIODE,ZENER,30V,5 WATT,THRU HOLE		ON SEMICONDUCTOR
2	7	D3-9		BAT30AFILM	DIODE SCHOTTKY 300MA CA SOT-23		ST MICRO
3	1	J31	JAX-X304	640456-4	CONN,4 PIN,.1PS,FRICTION LOCK,		AMP
4	1	J15	JAX-X725		CONNECTOR,.156,SINGLE ROW,3 POSITIONS		
5	1	J30	JAX-X708		CONNECTOR,.1,8 POSITION,LOCKING		AMP
6	1	J29		1-640454-2	CON,MTA,.STRAIGHT MALE,1X12,THRU HOLE		AMP
7	1	J17	JAX-X317	2320-6121TG	CONN,BERG TYPE,.1",10X2,KEYED		3M
8	1	J27			CON,BERG,HEADER,15X2,.1		
9	1	C16	CKD-1032-J	5HKSS10	80/-20% VISHAY#5HKSS10	80/-20%	VISHAY
10	6	C23-24 C32-33 C42 C44	CHX-1023-B	C0805C102K5RAC7800	CAP,1000PF,CHIP,0805,+/-10%,X7R,50v	50v,+/- 10%	KEMET
11	2	C1-2	CDX-1021		CAP,CER DISC,1000PF,1KV		
12	2	C43 C45	CHX-1012-A	C0805C101J5GAC	CAP,100pF,CHIP,0805 +/- 5%,COG	+/- 5%	KEMET
13	1	C47	CHX-1015-C	VJ1808Y101MXEAT	CAP,CER,100PF,1808,500V,X7R	20%	VISHAY
14	37	C11-15 C17-18 C22 C25-30 C34-41 C48-61 C63	CHX-1034-B	C0805C103K5RAC7800	CAP,10NF,CHIP,0805,+/-10%,X7R,50v	50v,+/- 10%	KEMET
15	4	C9-10 C31 C46	CHX-1035-C	VJ1808Y103MXEAT	CAP,CER,10NF,1808,500V,X7R	20%	VISHAY
16	7	C3-6 C19-21	CHX-1050-B	C0805C105K8RAC	CAP,CER,1UF,50V,0805+/-10%,X7R	10%	KEMET
17	2	C7-8	CEX-3361-C		CAP,ELE,33UF,250V,20%,RADIAL	20%	
18	1	C62	CEX-3303-D	ECST501VSN330MP25T	CAP 33UF 500V ELECT PW RADIAL	20%	United Chemi-Con
19	14	J10-13 J18-19 J22-26 J28 J35-36	HLX-X220	FASTON	CON,STRAIGHT,2 HOLE,FLAG MOUNT		KEYSTONE
20	8	K1-8	KDX-X142	G8P-1A4P-DC5	RELAY,30AMP,THRU HOLE, SEALED		OMRON
21	1	J2	JAX-X713	640445-8	CONN,8 PIN,.156 LS, THRU HOLE		AMP
22	1	JP1	WKX-X101		22 AWG JUMPER		
23	1	R1	RFO-E102-C		RES,MO,1K,5%,2W,THRU HOLE	5%	
24	1	R2	RFW-R250	VP25K25	RES,25 OHM,25 WATT, 5%,WIRE WOUND		CLAROSTAT
25	2	D1-2		RS405L	DIODE,BRIDGE,600V,4 AMP		DIODES INC.
26	1	TP11	JTX-X100	5001	TERMINAL TESTPOINT BLACK		KEYSTONE
27	17	TP1-10 TP12-18	JTX-X101	5000	TERMINAL TESTPOINT RED		KEYSTONE
28	8	J1 J4-9 J14					
29	1	J21					

**BCX-X816 BOM REV A
8410 HVPS**

Item	ALPHA #	Qty	REF-DES	PART NUMBER	Description	TOLERANCE	MFG #1
1	BCX-X816 REV A	4	PCB BOARD	BCX-X816 REV A			
2	CDX-2221-C	3	C1-2 C7		CAP,CERAMIC DISK,0022uF,6KV	20%	VISHAY
3	CEX-1062	1	C10		CAP,ELE,RADIAL,10uF,50V		
4	CEX-2271-C	9	C4-6 C11-13 C24-26	EKM451VSN331MR45S	CAP 330UF 450V ELECT KMQ SNAP		
5	CEX-3302-D	1	C3	UPW2W330MRD6	CAP 33UF 450V ELECT PW RADIAL	20%	NICHICON
6	CHX-1025-B	2	C28-29	501R15W102KV4E	CAP,1000PF,CHIP,0805,+/-10%,X7R,500v	500v,+/- 10%	Johanson
7	CHX-1034-B	11	C14-23 C27	C0805C103K5RAC7800	CAP,10NF,CHIP,0805,+/-10%,X7R,50v	50v,+/- 10%	KEMET
8	CHX-1035-C	2	C8-9	VJ1808Y103MXEAT	CAP,CER,10NF,1808,500V,X7R	20%	VISHAY
9	DNI	1	C30	DNI	Jumper wire, 20 AWG tin plated buss across pads.		
10	DRX-X128	2	D5-6	1N4007	DIODE,1000V,1AMP,DO-7		FAIRCHILD
11	DZA-X014	1	SG1	SMCJ400A	TV,400V,DO-214AB		LITTLE FUSE
12	DZX-X103	1	D1	1N4746A	DIODE,ZENER,18V,1 WATT,THRU HOLE		FAIRCHILD
13	DZX-X114	2	D3 D8	1N5363BG	DIODE,ZENER,30V,5 WATT,THRU HOLE		ON SEMICONDUCTOR
14	DZX-X125	1	D2	1N751	DIODE,5.1V,.5AMP,DO-7		FAIRCHILD
15	DZX-X156	1	D7	1N5333BRLG	DIODE,ZENER,3.3V,5 WATT,THRU HOLE		ON SEMICONDUCTOR
16	DZX-X157	1	D4	1N5346BG	DIODE,ZENER,9.1V,5 WATT,THRU HOLE		ON SEMICONDUCTOR
17	HLX-X220	4	J2 J13 J17-18	FASTON	CON,STRAIGHT,2 HOLE,FLAG MOUNT		KEYSTONE
18	JAX-X317	1	J9	2320-6121TG	CONN,BERG TYPE,.1",10X2,KEYED		3M
19	JAX-X606	1	J6		CONN,6 PIN WITH 4 CENTER REMOVED,.156 PS		AMP
20	JTX-X100	2	TP3 TP7	5001	TERMINAL TESTPOINT BLACK		KEYSTONE
21	JTX-X101	5	TP1-2 TP4-6	5000	TERMINAL TESTPOINT RED		KEYSTONE
22	KDX-X140	1	K1	DS2Y-SL2-DC5	RELAY,THRU,LATCHING,5V		MATSUSHITA
23	QTX-X109	1	Q1	2N3906	TRAN,PNP,40V,200mA,THRU HOLE		ON SEMI
24	QTX-X177	2	Q2-3	IRFB9N60A	FET,600V,9.2A,TO220		IR
25	RFC-C1004-A	4	R7 R13 R23-24	RN65D1004FB14	RES,1MEG,CMF65,1%,THRU	1%	VISHAY
26	RFF-B472-C	1	R22		RES,MF,4.7K,5%,1/2W,THRU HOLE	5%	
27	RFM-B1001-A	3	R19-20 R32	SFR16S0001001FR500	RES,MF,1/2W,THRU,1%,1.0K	1%	BC COMPONENTS
28	RFM-B1002-A	3	R21 R28 R30		RES,MF,1/2W,THRU,1%,10.0K	1%	
29	RFM-B471-C	1	R31		RES,MF,470,10%,1/2 WATT,THRU		
30	RFO-D222-C	1	R29		RES,2.2K,1W,5%	5%	
31	RFO-E154-D	12	R2-4 R8-11 R14-15 R17 R25-26		RES,150K,MO,2W,5%	5%	
32	RFO-H220-C	2	R5-6		RES,22 OHM,SURGE,7.5W	5%	
33	RFW-H101-C	1	R18		RES,WW,100 OHM,5W,5%,THRU	5%	DALE
34	RFW-H601	1	R12		RES,600 OHM, 5W,5%	5%	CLAIROSTAT
35	RFW-R100	2	R1 R27	VP10K25	RES,10 OHM,25 WATT, WIRE WOUND		CLAROSTAT
36	RVK-1033-D	1	R16	CT94EP103	POT 10K OHM SQ CERMET SIDE	10%	COPAL ELECTRONICS
37	UAX-044	1	U1	LMC6041IM/NOPB	IC OP AMP CMOS SINGL MICRO 8SOIC		NATIONAL