REVISIONS				
ZONE	REV	DESCRIPTION	DATE	APPROVED
	-	INITIAL RELEASE	05-02-23	SFP
	A	ADDED U21 & 22 TO P/L AND SH 2 (FRONT)	05-03-15	HG

NOTE:

1 INTERPERET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED IN DOD-STD-100

2 BOARD MATERIAL: FR-4 GLASS EPOXY - .062 THICK
1 OZ COPPER BOTH SIDES
4 LAYERS
FINISH: ALL COPPER, EXCEPT CONNECTOR CONTACTS TO BE PLATED WITH ELECTRO-DEPOSITED TIN-LEAD. PLATING SHALL BE A MINIMUM OF .0003 INCH THICK AND SHALL CONTAIN 60% TIN +/- 10% TIN

3 BOARD TO BE FREE OF FRAYED AND SHARP EDGES

4 ALLOWABLE DEFECTS IN COPPER : CROSS SECTIONAL AREA OF ANY CONDUCTOR SHALL NOT BE REDUCED BY MORE THAN 25%, DUE TO HOLES, SCRATCHES, AND EDGE IRREGULARITIES

5 ALL PLATED THRU HOLES SHALL BE PLATED WITH A MINIMUM OF .001 INCH THICK COPPER. HOLE DIMENSIONS APPLY AFTER PLATING

6 MARK REFERENCE DESIGNATORS APPROX AS SHOWN

7 SILKSCREENING SHALL BE DONE PER MARKING ARTWORK IN ACCORDANCE WITH IPC-A-600 USING WHITE EPOXY INK

8 PRINTED WIRING BOARD TO BE MANUFACTURED PER IPC-A-600

9 BOARDS SHOULD BE TESTED FOR CONTINUITY AND SHORTS PRIOR TO ASSY

10 ASSEMBLE COMPONENTS AND SOLDER PER IPC-A-610

11 SUGGESTED SOURCE OF SUPPLY OR EQUIV:
A - MURATA, SMYRNA GA 30080
B - KEMET ELECTRONICS, SIMSONVILLE SC 29681
C - PANASONIC, SECAUCUS NJ 07094
D - VISHAY/BC COMPONENTS, MALVERN PA 19355-2120
E - LITEON INC, MILPITAS CA 95035
F - AMP INC, HARRISBURG PA 17105
G - 3M ELEC PROD DIV, AUSTIN TX 78769-2963
H - PANDUIT CORP, TINLEY PARK IL 60477
J - COILCRAFT, CARY IL 60013
K - TDK CORP, MOUNT PROSPECT IL 60056
L - YAGEO AMERICA, WOODINVILLE WA 98072
M - MAXIM INT PROD, SUNNYVALE CA 94086
N - CITIZEN AMERICA CORP, EL SEGUNDO CA 90245
O - MOTOROLA INC,SEMICONDUCTOR PROD,PHOENIX AZ 85008
P - ALTERA CORP, SAN JOSE CA 95134
Q - PHILIPS SEMICONDUCTORS, SUNNYVALE CA 94088
R - NATIONAL SEMICONDUCTOR, SANTA CLARA CA 95051
S - MY FREQUINCY USA, MT PROSPECT IL 60056
T - TEXAS INSTRUMENTS, DALLAS TX 75265
U - SKYWORKS SOLUTIONS INC, WOBURN MA 01801
V - NORCOMP, CHARLOTTE NC 28208
W - COM DEV INT, CMBRIDGE ONTARIO CANADA,N1R7H6

CURRENT PCB IS REV "B"

UNSTUFFED
U7,C22,C29,C13,C14,C17,C18,U4

		QTY REQ -10	ITEM OR FIND NO.	REF DESIGNATOR	PART OR IDENTIFYING NO.	STS NO	NOMENCLATURE OR DESCRIPTION
11F		2	61	X1,2	413631-1	220078	CONN,BNC,50 OHM,RT ANGLE PCB
11W		2	60	U21,22	163012	241830	FILTER,RF SAW,915 MHz,WIRELESS
11U		2	59	U19,20	AS338-12	241113	IC,GAAS SWITCH,SPDT,NON-REFL,DC,2.5GHZ
11A		2	58	U17,18	SFECV10M7KA00-R0	239585	FILTER,10.7 MHZ,110 KHZ BANDWIDTH
11T		2	57	U15,16	TRF6901	239755	IC,TRANSCEIVER,SINGLE CHIP RF,900 MHZ
11A		2	56	U13,14	CDSCB10M7GA119-R0	239577	DISCRIMINATOR,10.7 MHZ,SM
11S		2	55	U11,12	M8306-FM101016-20.000	239771	CRYSTAL,20.000 MHZ,10PPM,SM
11R		1	54	U10	LM3940IMP-3.3	234826	REGULATOR,5V TO 3.3V,1A,SM,SOT-223
11Q		1	53	U9	74HCT02PW	239526	IC,QUAD,2 INPUT,POS NOR GATE
11Q		1	52	U8	74LVC244APW	239534	IC,OCT BUF/LINE FRVR,3 STATE OUT,TSSOP
11P		1	51	U6	EPM7064STC100-10	234060	IC,CPLD,68 I/O,100 TQFP,SM
11O		1	50	U5	MC9S12DJ256BCPV	239607	IC,HCS12 UCONTROLLER,256K FLASH,CAN,1850
11N		1	49	U3	HCM49-8.000MABJT	239550	CRYSTAL,8.0 MHZ,18PF,SM
11M		1	48	U2	MAX221EUE	239666	IC,LINE DRIVER,RS232,1TX 1RX,SM
11M		1	47	U1	MAX6348UR46-T	239682	IC,UC RESET SUPERVISOR,SM,SOT-23
11L		2	46	R56,57	9C04021A0R00JLHF3	238287	RESIST,0 OHM,1/16W,5%,SM,0402
11L		16	45	R40-55	9C04021A10R0JLHF3	238422	RESIST,10 OHM,1/16W,5%,SM,0402
11C		2	44	R36,37	9T04021A1002FBHF3	238309	RESIST,10K,1/16W,1%,SM,0402
11L		2	43	R33,34	9C04021A6801FJHF3	238414	RESIST,6.80K,1/16W,1%,SM,0402
11L		2	42	R32,35	9C04021A1802FLHF3	238333	RESIST,18K,1/16W,1%,SM,0402
11L		2	41	R20,21	9C04021A2203FLHF3	238368	RESIST,220K,1/16W,1%,SM,0402
11L		2	40	R17,19	9C04021A1500JLHF3	238163	RESIST,150 OHM,1/16W,5%,SM,0402
11L		12	39	R16,18,22-31	9C04021A1000JLHF3	238449	RESIST,100 OHM,1/16W,5%,SM,0402
11L		3	30	R9,12,13	9C04021A5600JLHF3	238457	RESIST,560 OHM,1/16W,5%,SM,0402
11L		1	38	R6	9C04021A4701JLHF3	238511	RESIST,4.7K1/16W,5%,SM,0402
11L		8	37	R2-4,7,14,15,38,39	9C04021A1002JLHF3	238139	RESIST,10K,1/16W,5%,SM,0402
11L		5	36	R1,5,8,10,11	9C04021A1001JLHF3	238147	RESIST,1.0K,1/16W,5%,SM,0402
11K		2	35	L7,8	LQW18AN8N2D00D	238929	INDUCTOR,8.2NH,650MA,SM,0603
11K		2	34	L4,6	LQG15HN10NJ02D	238937	INDUCTOR,10NH,300MA,SM,0402
11J		4	33	L1-3,5	0805LS-472XJB	241091	INDUCTOR,4.7UH,SHIELDED,SM
11V	—	1	32	J10	182-009-212-161	241148	CONN,DB9,FEM,RA,MET SH,PC MNT
11H	—	1	31	J8	100-096-053	212261	CONN,96 PIN DIN,MALE,RT ANGLE

		QTY REQ -10	ITEM OR FIND NO.	REF DESIGNATOR	PART OR IDENTIFYING NO.	STS NO	NOMENCLATURE OR DESCRIPTION
11F		1	30	J6	103328-5	216062	HEADER,10 PIN VERT,5 X 2,UNSHRD, .100
11F		1	29	J2	103783-3	223344	HEADER,3 X 2,PCB,AMPMODU
11C		1	28	J1	EVQPLHA15	238902	SWITCH,PUSH BUTTON,SM,LIGHT TOUCH
11E		1	27	D3	LTST-C171EKT	233633	LED,ORANGE,0805,2V,20MA,6MCD
11E		1	26	D2	LTST-171GKT	233617	LED,GREEN,0805,2.1V,20MA,12MCD
11E		1	25	D1	LTST-C171AKT	233609	LED,AMBER,0805,2.1V,20MA,4.5MCD
11C		2	24	C126,131	ECJ-0EC1H151J	238597	CAP,150PF,50V,CER,SM,0402
11C		2	23	C122,125	ECJ-0EC1H150J	238600	CAP,15PF,50V,CER,SM,0402
11C		4	22	C120,121,123,124	ECJ-0EC1H820J	238740	CAP,82PF,50V,CER,SM,0402
11A		2	21	C73,80	GRM1555C1H220JZ01D	238643	CAP,22PF,50V,5%,CER,SM,0402,COG
11D		4	20	C72,74,79,81	VJ0402A2R7CXACW1BC	238627	CAP,2.7PF,50V,CER,SM,0402,NPO
11A		2	19	C71,77	GRM155C1H470JZ01D	241083	CAP,47PF,50V,5%,CER,SM,COG,0402
11D		2	18	C69,75	VJ0402A1R8CXACW1BC	238589	CAP,1.8PF,50V,CER,SM,0402,NPO
11A		2	17	C65,78	GRM155R71H471KA01D	240095	CAP,470PF,50V,10%,CER,SM,0402,X7R
11C		2	16	C56,60	ECJ-0EC1H121J	238716	CAP,120PF,50V,CER,SM,0402
11C		2	15	C52,53	ECJ-0EB0J224K	238678	CAP,0.22UF,6.3V,CER,SM,0402,X5R
11B		2	14	C49,51	C0402C330J5GACTU	239437	CAP,33PF,50V,NPO,SM,0402
11C		2	13	C44,47	ECJ-0EC1H180J	238724	CAP,18PF,50V,CER,SM,0402
11C		4	12	C43,46,57,61	ECJ-0EC1H680J	238732	CAP,68PF,50V,CER,SM,0402,NPO
11A		4	11	C42,45,67,68	GRM155R71H472KA01D	239445	CAP,4700PF,50V,10%,CER,SM,0402,X7R
11C		22	10	C38-41,48,50,54,55,58,59,62-64, 66,70,76,82-87	ECJ-0IIC1H101J	238708	CAP,100PF,50V,CER,SM,0402
11B		19	9	C37,88,90,92,94,96,100-103,106, 109,111,114,116-118,127,129	C0402C103K3RACTU	238775	CAP,0.1UF,25V,CER,SM,0402,X7R
11C		1	8	C35	ECJ-3YF1A226Z	241105	CAP,22UF,10V,CER,SM,1206
11C		1	7	C34	ECJ-2YB1C474K	232106	CAP,0.47UF,CER,SM,0805,16V,X7R
11B		1	6	C11	C0402C222K3RACTU	238635	CAP,2200PF,50V,CER,SM,0402,X7R
11A		2	5	C9,C10	GRM1555C1H200JZ01D	241075	CAP,20PF,50V,5%,CER,SM,COG,0402
11B		1	4	C7	C042C223K8PACTU	238570	CAP,22000PF,10V,CER,SM,0402,X5R
11A		42	3	C1-6,8,12,15,16,19-21,23-28,30-33, 36,89,91,93,95,97-99,104,105,107, 108,110,112,113,115,119,128,130	GRM155F51C104ZA01D	237973	CAP,0.1UF,16V,CER,SM,0402,Y5V
		1	2		941B0404-1	941B0404A	BOARD,PC,FR-4,.062 X 4.50 X 5.80
	—		1		941B0404-10	941B0404	BOARD,AIM 2, RF

941B0400	AIM 2
NEXT ASSY	USED ON
APPLICATION	

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ON
FRACTIONS +/- ---- 2 PL DEC +/- ---
ANGLES +/- 1° 3 PL DEC +/- .005
DO N0T SCALE DRAWING
MATERIAL

CONTRACT NO.

DRAWN	ESB	05-02-23
CHECKED	N NGUYEN	05-02-23
ENGR	N NGUYEN	05-02-23
RELEASED		
DESIGN ACTIVITY APVL		
GOVT ACTIVITY APVL		

SYN-TECH SYSTEMS, INC
TALLAHASSEE, FLORIDA

BOARD,AIM 2,RF

SIZE	CODE IDENT NO.		REV
D	56672	941B0404	A
SCALE 2 / 1		SHEET 1 OF 2	

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941B0404 DWG NO. SH 1 REV A