

**Bill Of Materials**

Customer: Aframe  
Project: Watch  
Part Number: XB0296  
Revision: 2  
Last Update: 10/31/2008

Item	QTY	Ref.	Value	Tol.	Voltage	Dielectric	Description	PCB Footprint	Manf.	Manf. P/N	Placement
1	4	J1,J2,J3,J4	WIRE HOLE				CONNECTOR, WIRE HOLE, P/O PCB	WIREHOLE 80R47			NP
2	13	TP1,TP2,TP3,TP4,TP5,TP6,TP7,TP8,TP9,TP10,TP11,TP1	TEST POINT, SMD PAD, .040 DIA				TESTPOINT, SMD PAD, .040 DIA	TESTPOINT SMD ROUND 35			NP
3	1	B1	GMB042025				BATTERY, LITHIUM ION, 3.7V	GMB POWER GMB042025	GMD POWER	GMB042025	
4	2	C1,C2	27pF	5%	50V	COG	CAP, CERAMIC, 0402	0402 -MIN	MURATA	GRM1555C1H270JZ01D	
5	6	C3,C5,C6,C15,C17,C18	.01uF	10%	25V	X7R	CAP, CERAMIC, 0402	0402 -MIN	MURATA	GRM155R71E103KA01D	
6	4	C4,C8,C11,C19	8pF	.5pF	50V	COG	CAP, CERAMIC, 0402	0402 -MIN	MURATA	GRM1555C1H8R0DZ01D	
7	2	C7,C29	.01uF	10%	25V	X7R	CAP, CERAMIC, 0402	402	MURATA	GRM155R71E103KA01D	
8	2	C9,C10	.75pF	25pF	50V	COG	CAP, CERAMIC, 0402	0402 -MIN	MURATA	GRM1555C1HR75CZ01D	
9	5	C12,C24,C26,C31,C33	.1uF	10%	10V	X7R	CAP, CERAMIC, 0402	402	MURATA	GRM155R71C104KA88D	
10	2	C13,C16	.1uF	10%	10V	X7R	CAP, CERAMIC, 0402	0402 -MIN	MURATA	GRM155R71C104KA88D	
11	2	C14,C20	10uF	10%	10V	X5R	CAP, CERAMIC, 0805	805	MURATA	GRM21BR61A106KE19L	
12	3	C21,C22,C28	100pF	5%	50V	COG	CAP, CERAMIC, 0402	402	MURATA	GRM1555C1H101JZ01D	
13	2	C23,C32	4.7uF	10%	10V	X7R	CAP, CERAMIC, 0805	805	MURATA	GRM219R61A475KE19D	
14	1	C25	.47uF	0.1	10V	X5R	CAP, CERAMIC, 0402	402	MURATA	GRM155R61A474KE15D	
15	1	C27	.022uF	0.1	25V	X7R	CAP, CERAMIC, 0402	402	MURATA	GRM155R71E223KA61D	
16	1	C30	1000pF	10%	50V	X7R	CAP, CERAMIC, 0402	402	MURATA	GRM155R71H102KA01D	
17	1	C34	8pF	.5pF	50V	COG	CAP, CERAMIC, 0402	402	MURATA	GRM1555C1H8R0DZ01D	
18	1	D51	LCD				LCD, CUSTOM		PTICO GROUP	JY08A76	
19	2	D1,D2	NZL5V6AXV3T1G				DIODE, SCHOTTKY BARRIER, DUAL	SC-89	ON SEMICONDUCTOR	NZL5V6AXV3T1G	
20	1	E1	2.45 GHz ANTENNA				ANT, CHIP, 2.45GHz		MURATA ANCW SERIES	ANCW12G45SA117	
21	1	F1	PTC THERMISTOR				PTC THERMISTOR, SMD	MURATA PRG21_RA SERIES	MURATA	PRG21BC0R2MM1RA	
22	1	JMPR1	JUMPER, SOLDER BRIDGE				WIRE, JUMPER, 8 GAUGE, 2.5 INCHES	SOLDER BRIDGE	VENDOR	VENDOR ITEM	
23	1	J5	4 PIN_3				PLATED THROUGH HOLES P/O PCB	5-PIN 1-ROW 2MM-CTC	N/A	N/A	
24	1	L1	2.2nH	5%			INDUCTOR, SMD, WIRE WOUND	COILCRAFT 0603 SERIES	COILCRAFT	0603CS-2N2XJL	
25	1	L2	.5pF	.25pF	50V	COG	CAP, CERAMIC, 0402	402	MURATA	GRM1555C1HR50CZ01D	
26	1	L3	3.9nH	5%			INDUCTOR, SMD, WIRE WOUND	COILCRAFT 0603 SERIES	COILCRAFT	0603CS-3N9XJL	
27	1	L4	3.3nH	5%			INDUCTOR, SMD, WIRE WOUND	0603 (SPECIAL SPACING)	COILCRAFT	0603CS-3N3XJL	
28	1	L5	27nH	0.05			INDUCTOR, RF, 0402	402	TAIYO YUDEN	HK100527NJ-T	
29	1	PCB1	XF0296 REV2				PCB XF0278 REV 2				
30	1	Q1	FDMA1029PZ				TRANSISTOR, MOSFET, P-TYPE, DUAL	MICROFET 2X2	FAIRCHILD	FDMA1029PZ	
31	1	Q2	FFB3904					SOT-363	FAIRCHILD	FFB3904-ND	
32	1	R1	3.3k	5%			RES, CERAMIC, .0625W, 0402	0402 -MIN	KOA	RK73B1ELTD332J	
33	1	R2	2.7	5%			RES, CERAMIC, .0625W, 0402	0402 -MIN	KOA	RK73B1ELTD2R7J	
34	1	R3	1	5%			RES, CERAMIC, .0625W, 0402	402	KOA	RK73B1ELTD1R0J	
35	4	R4,R5,R8,R19	10k	5%			RES, CERAMIC, .0625W, 0402	0402 -MIN	KOA	RK73B1ELTD103J	
36	1	R6	169.0k	1%			RES, CERAMIC, .0625W, 0402	0402 -MIN	KOA	RK73H1ELTD1693F	
37	1	R7	1	5%			RES, CERAMIC, .0625W, 0402	0402 -MIN	KOA	RK73B1ELTD1R0J	
38	5	R9,R10,R18,R20,R21	3.3k	5%			RES, CERAMIC, .0625W, 0402	402	KOA	RK73B1ELTD332J	
39	3	R11,R16,R17	100k	5%			RES, CERAMIC, .0625W, 0402	402	KOA	RK73B1ELTD104J	
40	2	R12,R15	2.0k	1%			RES, CERAMIC, .0625W, 0402	402	KOA	RK73H1ELTD2001J	
41	2	R13,R14	100	5%			RES, CERAMIC, .0625W, 0402	402	KOA	RK73B1ELTD101J	
42	1	SW1	E-SWITCH 901AF160QG (RA MOM)				SWITCH, MOM, RA, SMD	E-SWITCH 901AF160QG	E-SWITCH	901AGQF180	
43	1	SW2	ALPS SKQMBBE010				SWITCH, MOM, SMD	ALPS SKQM SERIES	ALPS	SKQMBBE010	
44	1	T1	TAPE				TAPE, DOUBLESTICK		3M	F9473PC-.5X60	
45	1	U1	EM260				IC, TRANSCEIVER	QFN-40	EMBER	EM260	
46	1	U2	TPS76930				REGULATOR, 3.0V, LD	SOT-23 (5 PIN)	TEXAS INSTRUMENTS	TPS76930DBV	
47	1	U3	PIC18F46K20				IC, MICROCONTROLLER	QFN-44	MICROCHIP	PIC18F46K20-E/ML	
48	1	U4	SMB380				IC, TRIAXIAL ACCELERATION SENSOR	BOSCH SMB380	BOSCH	SMB380	
49	1	U5	M95512				IC, SERIAL EEPROM, 512K	TSSOP-8	ST MICROELECTRONICS	M95512-RDW6TP	
50	1	Y1	24.000 MHz	10ppm			CRYSTAL, 24.00 MHz, SMD	ILCX08 SERIES	OSCILENT	290-24.0M-18-10HW-TR	
51	1	Y2	2.4GHz				FILTER, CERAMIC, B/W 100MHz	TDK DEA252450BT-7012D1	TDK	DEA252450BT-7012D1	