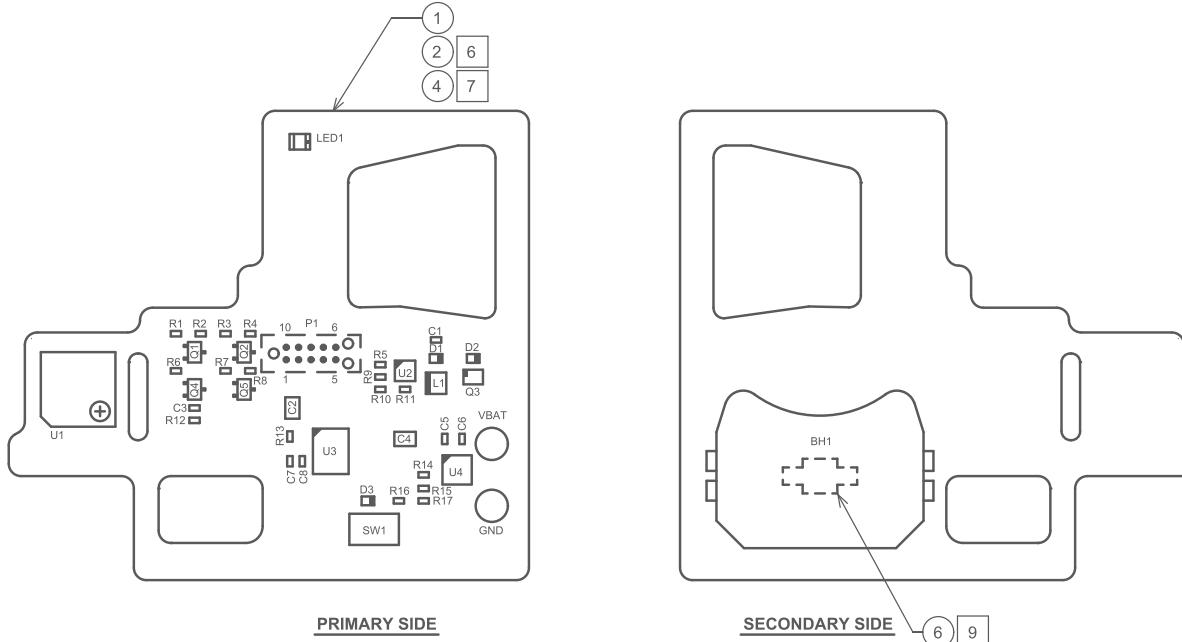


NOTES:

- 1 - THIS ASSY HAS STATIC SENSITIVE DEVICES, HANDLE USING ANTI-STATIC OR STATIC DISSIPATIVE EQUIPMENT AND/OR PRECAUTIONS.
- 2 - CARD ASSEMBLY MUST ADHERE TO IPC-A-610, CLASS 2, LATEST REVISION.
- 3 - THIS PART SHALL COMPLY WITH RESTRICTED SUBSTANCES QAP D20014464.
- 4 - ALL RESISTOR VALUES ARE IN OHMS UNLESS OTHERWISE SPECIFIED.
- 5 - ALL CAPACITOR VALUES ARE IN MICROFARADS UNLESS OTHERWISE SPECIFIED.
- 6 - LABEL CARD ASSEMBLY PER ITEM 3.
- 7 - CONFORMAL COAT PER ITEM 5.
- 8 - WRITTEN REQUEST FOR CHANGE MUST BE SUBMITTED TO RAYMOND CORPORATION ENGINEERING FOR APPROVAL PRIOR TO ANY CHANGE IN CONSTRUCTION, MATERIALS, COMPONENTS AND/OR PROCESS.
- 9 - ITEM 6 TO BE SOLDERED TO THE PCB PRIOR TO SOLDERING BH1 TO THE PCB.

REVISIONS			
LTR	DESCRIPTION	DATE	CHGD
1	PROTOTYPE - FIRST DRAFT	190410	SH
2	PROTOTYPE - SECOND DRAFT	190501	SH
-	-	-	-
-	-	-	-



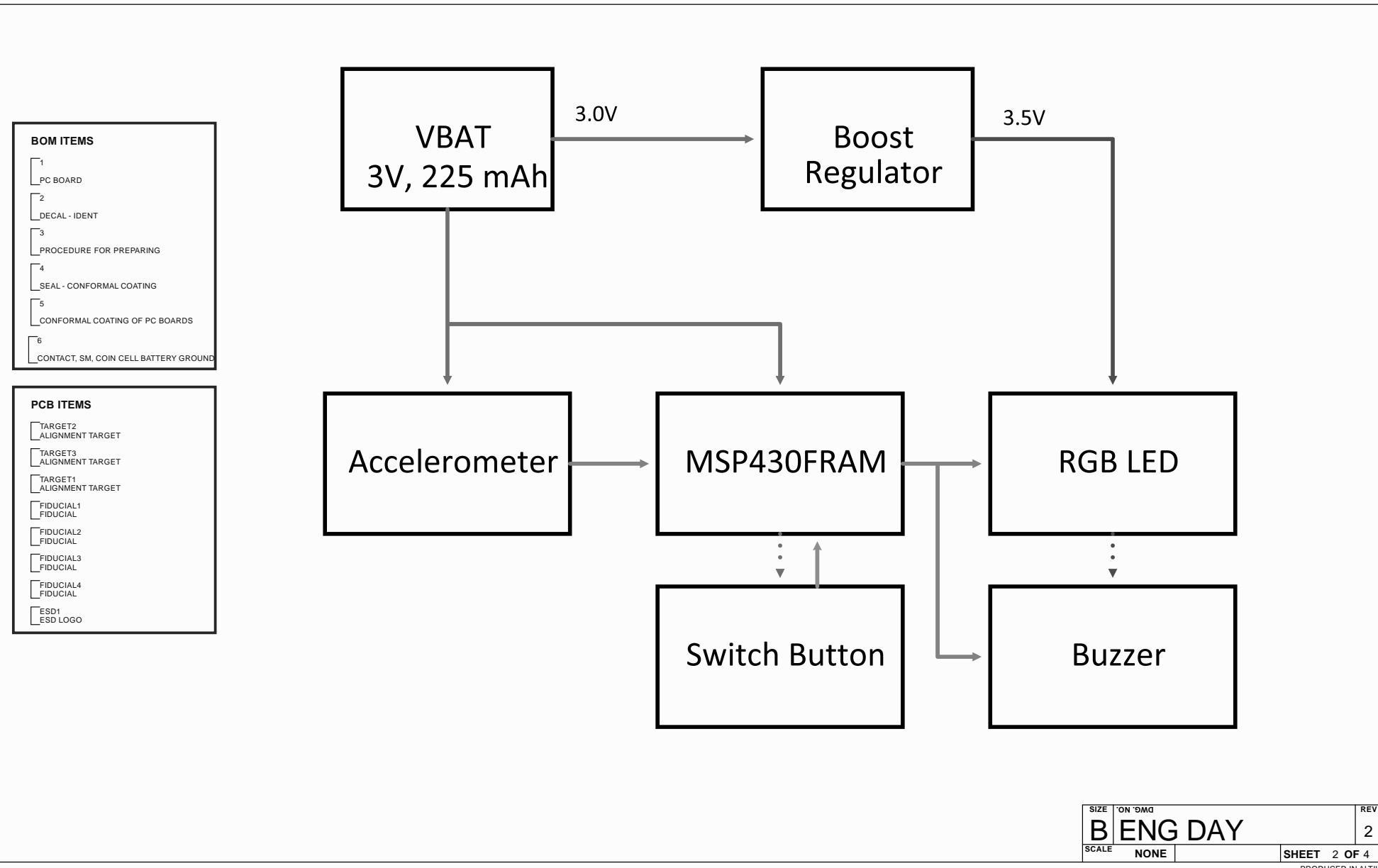
THIS DOCUMENT IS THE PROPERTY OF THE RAYMOND CORPORATION. ITS USE IS AUTHORIZED ONLY FOR RESPONDING TO A REQUEST FOR QUOTATION OR FOR THE PERSONNEL OF THE RAYMOND CORPORATION. DUPLICATION OF THIS DOCUMENT IS PROHIBITED UNLESS AUTHORIZED BY THE RAYMOND CORPORATION.

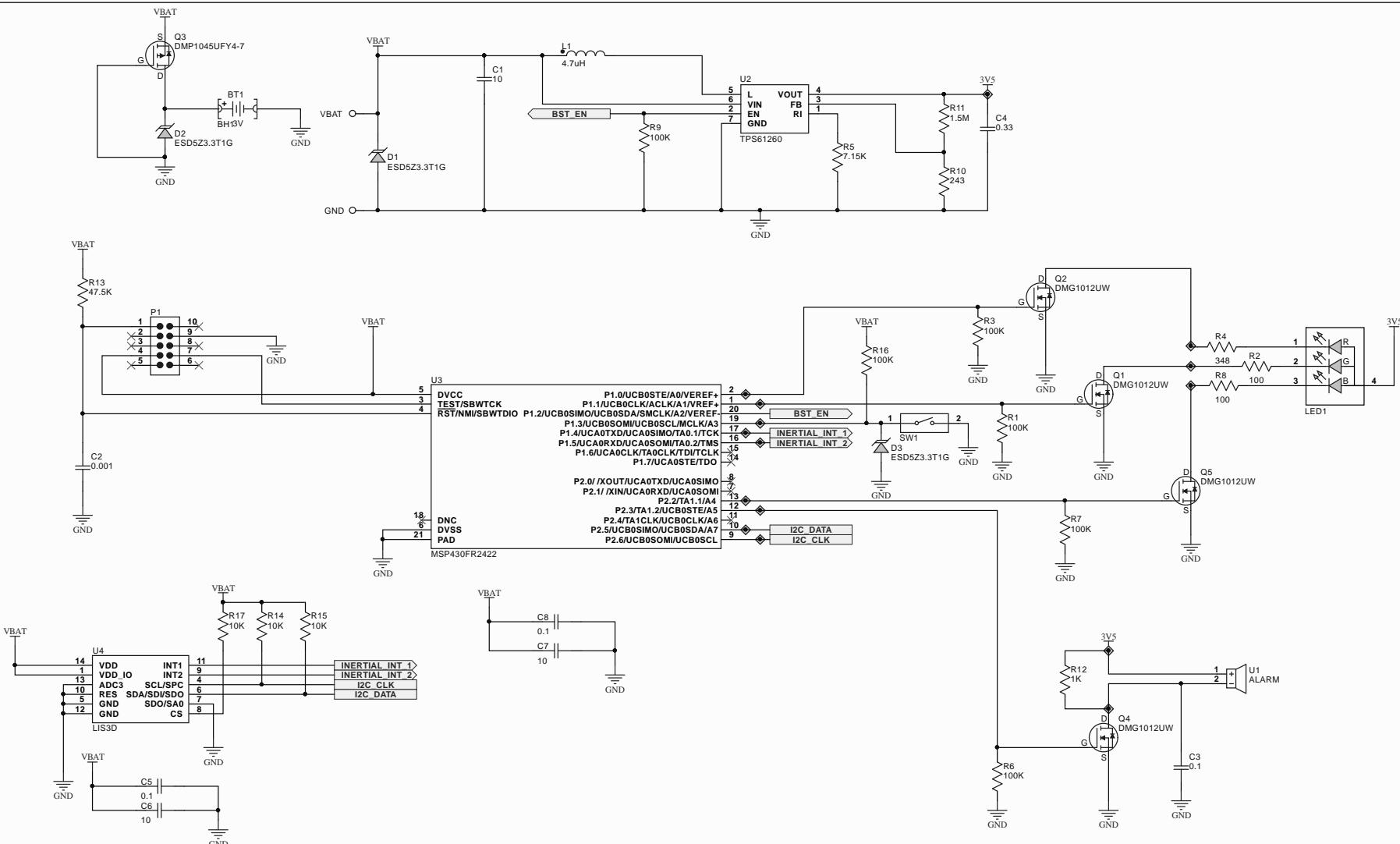
UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE INCHES
TOLERANCES ARE:
DEGREES $\pm 1^\circ$
TWO PLACE DECIMALS $\pm .02$
THREE PLACE DECIMALS $\pm .005$

MATERIAL	---
HEAT TREAT	---

THIRD ANGLE PROJECTION
DATE 190410
DRAWN R.GILLELA
ENGR. APPROVAL CR X

RAYMOND
THE RAYMOND CORPORATION GREENE, NY 13778 USA
NAME PCA, KEY TAG
SIZE DWG. NO. B ENG DAY REV. 2
SCALE 1 = 1 SHEET 1 OF 4
PRODUCED IN ALTIUM





SIZE	DWG. NO.	REV
B	ENG DAY	2
SCALE	NONE	

PRODUCED IN ALITUM

ENG DAY

REV 2

PCA, KEY TAG

THIS DOCUMENT IS THE PROPERTY OF THE RAYMOND CORPORATION. ITS USE IS AUTHORIZED ONLY FOR RESPONDING TO A REQUEST FOR QUOTATION OR FOR THE PERFORMANCE OF WORK FOR THE RAYMOND CORPORATION. DUPLICATION OF THIS DOCUMENT IS PROHIBITED UNLESS AUTHORIZED BY THE RAYMOND CORPORATION.

ITEM	QTY	PART NUMBER	DESCRIPTION
1	1	-	PCB, KEY TAG
2	1	-	DECAL - IDENT
3	REF	-	PROCEDURE FOR PREPARING
4	AR	-	SEAL - CONFORMAL COATING
5	REF	-	CONFORMAL COATING OF PC BOARDS
6	1	-	CONTACT, SM, COIN CELL BATTERY GROUND
BH1	1	-	CONN, SM, BATTERY HOLDER
BT1	1	-	BATTERY, PRIMARY, 3V, 2032
C1, C6, C7	3	-	CAP, SM, CER, 10uF, 4V, +/-20%, X5R, 0402
C2	1	-	CAP, SM, CER, 0.001uF, 50V, +80/-20%, Z5U, 0805
C3, C5, C8	3	-	CAP, SM, CER, 0.1uF, 6.3V, +/-10%, X5R, 0402
C4	1	-	CAP, SM, CER, 0.33uF, 16V, +/-20%, 0805
D1, D2, D3	3	-	DIODE, SM, ESD, 3.3V, 240W
L1	1	-	IND, SM, 4.7uH, 1.0A, XPL2010
LED1	1	-	LED, SM, RGB, 0606
Q1, Q2, Q4, Q5	4	-	XSTR, SM, N-FET, 20V, 1A
Q3	1	-	XSTR, SM, P-FET, -12V, 5.5A, UDFN
R1, R3, R6, R7, R9, R16	6	-	RES, SM, 100K, 0.063W, 1%, 0402
R2, R8	2	-	RES, SM, 100, 0.063W, 1%, 0402
R4	1	-	RES, SM, 348, 0.063W, 1%, 0402
R5	1	-	RES, SM, 7.15K, 0.063W, 1%, 0402
R10	1	-	RES, SM, 243, 0.063W, 1%, 0402
R11	1	-	RES, SM, 1.5M, 0.063W, 1%, 0402
R12	1	-	RES, SM, 1K, 0.063W, 1%, 0402
R13	1	-	RES, SM, 47.5K, 0.063W, 1%, 0402
R14, R15, R17	3	-	RES, SM, 10K, 0.063W, 1%, 0402
SW1	1	-	SWITCH, SM, TACT SPST-NO 0.02A 12V
U1	1	-	IC, SM, ALARM
U2	1	-	IC, SM, DC/DC, BOOST, INT FETS, TPS61260
U3	1	-	IC, SM, MCU, MSP430FR2422
U4	1	-	IC, SM, ACCELEROMETER, LIS3D