NOTES:
1. BATTERY BOX ASSEMBLY CONSISTS OF TWO IDENTICAL ASSEMBLIES
2. BOTH MOUNTED TO THE EQUATORIAL PLATE ON THE +Z SIDE
3. ASSEM 1 IS MOUNTED ON THE +X SIDE
4. ASSEM 2 IS MOUNTED ON THE -X SIDE

CALLOUTS

<table>
<thead>
<tr>
<th>CALLOUT</th>
<th>PART NAME</th>
<th>PART NUMBER/SPEC</th>
<th>QTY</th>
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<tr>
<td>1</td>
<td>BATTERY BOX CASE</td>
<td>EPS201-1</td>
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<tr>
<td>2</td>
<td>BATTERY CELL HOLDER</td>
<td>EPS201-2</td>
<td>1</td>
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<td>3</td>
<td>BATTERY LID</td>
<td>EPS201-3</td>
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<td>4</td>
<td>BATTERY BOX HOLDER</td>
<td>EPS201-4</td>
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</tr>
<tr>
<td>5</td>
<td>WIRE MESH</td>
<td>EPS201-5</td>
<td>2</td>
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<tr>
<td>6</td>
<td>MESH GASKET</td>
<td>EPS201-6</td>
<td>2</td>
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<tr>
<td>7</td>
<td>GASKET COVER</td>
<td>EPS201-7</td>
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<td>8</td>
<td>ABSORBENT MATERIAL A</td>
<td>EPS201-8</td>
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<tr>
<td>9</td>
<td>ABSORBENT MATERIAL B</td>
<td>EPS201-9</td>
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<td>10</td>
<td>DB 37 PIN REC CONNECTOR</td>
<td>EPS801-1</td>
<td>1</td>
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<td>11</td>
<td>SANYO CELL</td>
<td>EPS801-2</td>
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<td>12</td>
<td>FUSE BOARD</td>
<td>EPS309</td>
<td>1</td>
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<tr>
<td>13</td>
<td>SHCS (6-32 X 0.7500)</td>
<td>STR863-6</td>
<td>5</td>
</tr>
<tr>
<td>14</td>
<td>SHCS (4-40 X 0.3750)</td>
<td>STR862-3</td>
<td>13</td>
</tr>
<tr>
<td>15</td>
<td>SHCS (2-56 X 0.3750)</td>
<td>STR861-3</td>
<td>8</td>
</tr>
<tr>
<td>16</td>
<td>NUTS (4-40 X 0.1250)</td>
<td>STR862N-1</td>
<td>2</td>
</tr>
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</table>
NOTES:
1. ALUMINUM 6061-T561 (AMS-QQ-A-250/11) CERTIFICATE OF COMPLIANCE: STR810.0 BATTERY BOX CoC
2. ANODIZE AND ALODINE TO MIL SPEC CALLED OUT ON LATER PAGE
3. BATTERY BOX MOUNTS TO THE EQUATORIAL PLATE

REVISIONS

<table>
<thead>
<tr>
<th>REVISION</th>
<th>REVISION CHANGE</th>
<th>DATE</th>
<th>REA</th>
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<td>EPS201-1.0</td>
<td>CDR RELEASE</td>
<td>2/4/2008</td>
<td>JARED LEIDECHE</td>
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<td>PQR RELEASE</td>
<td>6/25/2008</td>
<td>ANDREW TOMCHEK</td>
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</table>

WEIGHT: 545.90 GRAMS

DRAWN: ANDREW TOMCHEK
STR. LEAD: ANDREW TOMCHEK
PFR. ENGR: JAMES GORMAN
INT. ENGR: BRIAN DAVIS
DSN. ENGR: MIC GREEN
PGM. MSGR: MARC FLUNDIE

UNIVERSITY OF COLORADO AT BOULDER
ASEN DEPT. & COSGC
BOULDER, CO 80309

D A N D E
BATTERY BOX CASE

REV: 1
DRAWING NO.
EPS201-1

UNLESS OTHERWISE SPECIFIED:
DIMENSIONS ARE IN INCHES
TOLERANCES:
LINEAR: ± .001
± .005
ANGULAR: ± 0.5°
NOTES:
1. PAGE DISPLAYS CALLOUTS AND HOLE LOCATIONS

<table>
<thead>
<tr>
<th>REFERENCE NUMBER</th>
<th>DRILL SIZE</th>
<th>HOLE DIAMETER</th>
<th>SCREW SIZE</th>
<th>TYPE</th>
<th>DRILL DEPTH</th>
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<tbody>
<tr>
<td>1</td>
<td>#16</td>
<td>0.1770</td>
<td>8-32 X 6</td>
<td>THROUGH HOLE</td>
<td>ALL</td>
</tr>
<tr>
<td>2</td>
<td>N/A</td>
<td>0.3000</td>
<td>8-32 X 2</td>
<td>COUNTERBORE</td>
<td>0.690</td>
</tr>
<tr>
<td>3</td>
<td>#26</td>
<td>0.1470</td>
<td>6-32 X 5</td>
<td>TAPPED HELICOIL</td>
<td>ALL</td>
</tr>
<tr>
<td>4</td>
<td>#31</td>
<td>0.1200</td>
<td>4-40 X 5</td>
<td>TAPPED HELICOIL</td>
<td>0.350</td>
</tr>
<tr>
<td>5</td>
<td>#31</td>
<td>0.1200</td>
<td>4-40 X 2</td>
<td>TAPPED HELICOIL</td>
<td>ALL</td>
</tr>
<tr>
<td>6</td>
<td>1/16</td>
<td>0.0625</td>
<td>N/A X 5</td>
<td>BLIND VENT HOLE</td>
<td>UP TO NEXT</td>
</tr>
</tbody>
</table>
NOTES:
1. ALL CONCAVE FILLET RADIUS ARE 0.35" AND ALL CONVEX FILLET RADIUS ARE .125" UNLESS OTHERWISE SPECIFIED
2. ROUNDED END BIT RADIUS IS BETWEEN 0.005 - 0.015" UNLESS SPECIFIED
3. PAGE DISPLAYS TOP VIEW DIMENSIONS WITHOUT HOLE LOCATIONS
4. ALL SHARP EDGES ARE DEBURRED WITH A 1/32 RADIUS

NOTES:
1. ALL CONCAVE FILLET RADIUS ARE 0.35" AND ALL CONVEX FILLET RADIUS ARE .125" UNLESS OTHERWISE SPECIFIED
2. ROUNDED END BIT RADIUS IS BETWEEN 0.005 - 0.015" UNLESS SPECIFIED
3. PAGE DISPLAYS TOP VIEW DIMENSIONS WITHOUT HOLE LOCATIONS
4. ALL SHARP EDGES ARE DEBURRED WITH A 1/32 RADIUS
NOTES:
1. FILLETS RADII ARE 0.35" UNLESS OTHERWISE SPECIFIED
2. ROUNDED END BIT RADIUS IS BETWEEN 0.005 - 0.015" UNLESS SPECIFIED
3. PAGE DISPLAYS FRONT AND SIDE VIEW DIMENSIONS WITHOUT HOLE LOCATIONS
4. ALL SHARP EDGES ARE DEBURIED WITH A 1/32 RADIUS
NOTES:
1. ALUMINUM 6061-T651 (AMS-QQ-A-250/11) CERTIFICATE OF COMPLIANCE: STR806.0 CELL HOLDER CoC
2. ANODIZE AND ALODINE TO MIL SPEC CALLED OUT ON LATER PAGE
3. HOLDS THE BATTERIES AND MOUNTS INSIDE THE BATTERY BOX

REVISIONS

<table>
<thead>
<tr>
<th>REVISION</th>
<th>REVISION CHANGE</th>
<th>DATE</th>
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<td>EPS201-2.0</td>
<td>CDR RELEASE</td>
<td>2/4/2008</td>
<td>JARED LEIDECH</td>
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<tr>
<td>EPS201-2.1</td>
<td>POR RELEASE ALTERED DESIGN CHANGED MOUNT HOLE LOCATION</td>
<td>6/22/2008</td>
<td>ANDREW TOMCHEK</td>
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</table>

WEIGHT: 107.99 GRAMS

SCALE: 1:1
NOTES:
1. FILLET RADII ARE 0.30" UNLESS OTHERWISE SPECIFIED.
2. ALL SHARP EDGES ARE DEBURIED WITH A 1/32 RADIUS.

HOLE CALLOUT

<table>
<thead>
<tr>
<th>REFERENCE NUMBER</th>
<th>DRILL SIZE</th>
<th>HOLE DIAMETER</th>
<th>SCREW SIZE</th>
<th>TYPE</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>#26</td>
<td>0.1470</td>
<td>6-32 X 5</td>
<td>THROUGH HOLE</td>
</tr>
</tbody>
</table>
NOTES:
1. ALUMINUM 6061-T651 (AMS-QQ-A-250/11) CERTIFICATE OF COMPLIANCE: STR806.0 BATTERY LID CoC
2. ANODIZE AND ALODINE TO MIL SPEC CALLED OUT ON LATER PAGE
3. HOLDS THE FUSE BOARD AND CAPS THE BATTERY BOX

REVISES
REVISION CHANGE DATE REA

EPS201-3.0 CDR RELEASE 2/4/2008 JARED LEIDECH
EPS201-3.1 PQR RELEASE 6/25/2008 ANDREW TOMCHEK

UNIVERSITY OF COLORADO AT BOULDER
ASEN DEPT. & COSGC
BOULDER, CO 80309

CONTACT

DRAWN: ANDREW TOMCHEK
STR. LEAD: ANDREW TOMCHEK
OPT. ENG.: JAMES GORMAN
MFG. ENG.: BRUCE DAVIS
DVS ENG.: MRC GREEN
DMG. MGR.: MARC RUMPERS

DIMENSIONS ARE IN INCHES

SURFACE FINISH:

DEBUR AND BREAK SHARP EDGES

SCALE: 1:1

HEIGHT: 133.12 GRAMS

SHEET 9 OF 23
NOTES:
1. THIS PAGE DISPLAYS HOLE LOCATIONS AND CALLOUTS FOR THE LID

<table>
<thead>
<tr>
<th>REFERENCE NUMBER</th>
<th>DRILL SIZE</th>
<th>HOLE DIAMETER</th>
<th>SCREW SIZE</th>
<th>TYPE</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>1/8</td>
<td>0.1250</td>
<td>N/A X 2</td>
<td>VENT HOLE</td>
</tr>
<tr>
<td>2</td>
<td>#31</td>
<td>0.1200</td>
<td>4-40 X 13</td>
<td>THROUGH HOLE</td>
</tr>
<tr>
<td>3</td>
<td>#41</td>
<td>0.0960</td>
<td>2-56 X 8</td>
<td>TAPPED HELICOIL</td>
</tr>
</tbody>
</table>
NOTES:
1. FILLETS RADIi ARE 0.35" UNLESS OTHERWISE SPECIFIED
2. ROUNDED END BIT RADIUS IS BETWEEN 0.005 - 0.015" UNLESS SPECIFIED
3. ALL SHARP EDGES ARE DEBURED WITH A 1/32 RADIUS
NOTES:
1. PART IS TO BE CUT FROM GORE-SHIELD GS2100 SERIES EMI-RFI GASKET
2. CERTIFICATE OF COMPLIANCE NUMBER IS TO BE FILLED OUT BEFORE INTEGRATION

REV 0
EPS201-4
BATTERY BOX GASKET

UNIVERSITY OF COLORADO AT BOULDER
ASEN DEPT. & COSGC
BOULDER, CO 80309

D A N D E
BATTERY BOX GASKET

UNLESS OTHERWISE SPECIFIED:
DIMENSIONS ARE IN INCHES
TOLERANCES:
LINEAR:          .x
               .0.1
               .0.01
               .0.005
ANGULAR:   0.5

NAME          SIGNATURE    DATE    CONTACT
DRAWN: ANDREW TOMCHEK
STR. LEAD: ANDREW TOMCHEK
SPEC. ENGR. JAMES GORMAN
FAB ENGR. BRUCE DAYS
SYS ENG: MIKE GRUSIN
OTA. MGR: MARCO FUNDICI
NOTES:
1. SS 400 X 400 MESH
NOTES:
1. VITON MIL-R-83485 GASKET
HOLE CALLOUT

<table>
<thead>
<tr>
<th>REFERENCE NUMBER</th>
<th>DRILL SIZE</th>
<th>HOLE DIAMETER</th>
<th>SCREW SIZE</th>
<th>TYPE</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>1/8</td>
<td>0.125</td>
<td>N/A X 1</td>
<td>VENT HOLE</td>
</tr>
<tr>
<td>2</td>
<td>#41</td>
<td>0.096</td>
<td>2-56 X 4</td>
<td>THROUGH HOLE</td>
</tr>
</tbody>
</table>
NOTES:
1. ALUMINUM 6061-T651 (AMS-QQ-A-250/11) CERTIFICATE OF COMPLIANCE: STR808.0 VENT CAP COC
2. ANODIZE BLACK MIL-A-8625, TYPE 2 CLASS BLACK
NOTES:
1. DEBUR SHARP EDGES WITH 1/32 RADIUS

<table>
<thead>
<tr>
<th>REFERENCE NUMBER</th>
<th>DRILL SIZE</th>
<th>HOLE DIAMETER</th>
<th>SCREW SIZE</th>
<th>TYPE</th>
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<tbody>
<tr>
<td>1</td>
<td>1/8</td>
<td>0.125</td>
<td>N/A X 1</td>
<td>VENT HOLE</td>
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<tr>
<td>2</td>
<td>#41</td>
<td>0.096</td>
<td>2-56 X 4</td>
<td>THROUGH HOLE</td>
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</tbody>
</table>
NOTES:
1. PIG HAZ-MAT MSD-301
2. BAKE OUT MAT BEFORE INTEGRATION
3. CUTOUTS WILL BE ADDED BEFORE THE FORMAL INTEGRATION PROCEDURE
4. CERTIFICATE OF COMPLIANCE NUMBER IS TO BE FILLED OUT BEFORE INTEGRATION.
NOTES:
1. PIG HAZ-MAT MSD-301
2. BAKE OUT MAT BEFORE INTEGRATION
3. CUTOUTS WILL BE ADDED BEFORE THE FORMAL INTEGRATION PROCEDURE
4. CERTIFICATE OF COMPLIANCE NUMBER IS TO BE FILLED OUT BEFORE INTEGRATION: